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THE

COMMISSIONERS OF PATENTS'

JOURNAL.

1859.

By Authority.



LONDON:
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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 522. TUESDAY, JANUARY 4, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given that

1896. PETER SPENCE, of Pendleton, in the county of Lancaster, Manufacturing Chemist, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the manufacture of alum."

1897. And JAMES LEWIS FIGGETT, of Missionary Place, Walworth, in the county of Surrey, Surgical Turner, has given the like notice in respect of the invention of "An improved construction of syringe or hand pump."

As set forth in their respective petitions, both recorded in the said office on the 20th day of August, 1858.

1905. And WILLIAM HENSON, of St. Just, in the empire of France, Engineer, has given the like notice in respect of the invention of "Improvements in circular looms or knitting frames."

As set forth in his petition, recorded in the said office on the 21st day of August, 1858.

1909. And FRANCIS PULS, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, Chemist, has given the like notice in respect of the invention of "Improvements in the distillation of coal."

1910. And FRANCIS PULS, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, Chemist, has given the like notice in respect of the invention of "Improvements in the distillation of bituminous matters and gas tar."

1913. And LEWIS HIGGINS, of Jersey city, and ALEXANDER BROWN, of New York, in the United States of America, Mariners, have given the like notice in respect of the invention of "Improvements in reefing the sails of navigable vessels."

1917. And JOHN HUNTER ROBINSON, Manager to Grant Brothers, of Clements Court, in the city of London, Manufacturers, has given the like notice in respect of the invention of "An improved shirt."

1918. And WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in windlasses."

As set forth in their respective petitions, all recorded in the said office on the 23rd day of August, 1858.

1932. And HENRY WILSON, Engineer, in the employment of Powis and James, of Watling Street, in the city of London, Engineers, has given the like notice in respect of the invention of "Improvements in the mounting of band-saws."

As set forth in his petition, recorded in the said office on the 24th day of August, 1858.

1927. And THOMAS HILL, of Heywood, in the county of Lancaster, Boiler Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for punching and shearing metals."

As set forth in his petition, recorded in the said office on the 25th day of August, 1858.

1931. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in bellows."—A communication.

1933. And JAMES BLACK, of Edinburgh, Machine Maker, has given the like notice in respect of the invention of "An improved mode or means of obtaining, applying, and transmitting motive power."

1935. And SAMUEL NEWMAN RODIER, of No. 21, Oak Village, Saint Pancras, in the county of Middlesex, has given the like notice in respect

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of the invention of "Improvements in apparatus for regulating gas."

As set forth in their respective petitions, all recorded in the said office on the 26th day of August, 1858.

1938. And THOMAS TROTMAN, of No. 253, Albany Road, Camberwell, in the county of Surrey, Pin Maker, has given the like notice in respect of the invention of "Improvements in hair-pins."

1939. And JOSEPH ELLISDON, of Liverpool, in the county of Lancaster, Designer, and Cabinet Maker, has given the like notice in respect of the invention of "Improvements applicable to reading chairs and other articles used to sit or recline upon."

1943. And HERBERT WILLIAM HART, of No. 69, Fleet Street, Gas Engineer, has given the like notice in respect of the invention of "Improvements in the application of gas to chandeliers."

1947. And WILLIAM KEMPE, of Holbeck Mills, Leeds, has given the like notice in respect of the invention of "Improvements in apparatus used for winding woollen and other fabrics on rollers, in order to such fabrics being boiled or faced when on the rollers."

1948. And JOHN FOWLER, junior, of Cornhill, in the city of London, and ROBERT BURTON, of Kingsland Road, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in the construction and arrangement of locomotive and other carriages, to facilitate their movement on common roads and other surfaces."

1949. And RICHARD KNIGHT, of Foster Lane, in the city of London, has given the like notice in respect of the invention of "Improvements in apparatus for ærating liquids."

As set forth in their respective petitions, all recorded in the said office on the 27th day of August, 1858.

1953. And GEORGE COODE, of the city of Westminster, Barrister-at-Law, has given the like notice in respect of the invention of "Improvements in the adjustment of hose in machines for distributing liquid manure and other liquids over land, also for an improved method of and apparatus for manufacturing the hose to be used with such machines or otherwise, and for gathering and puckering canvas, linen, leather, and other textile and membraneous substances."

1954. And JAMES DUPRÉ BRABAZON, of Lane's Hotel, St. Alban's Place, Haymarket, Esquire, has given the like notice in respect of the invention of "Improvements in giving motion by sails to screw and other propellers of ships and vessels."

As set forth in their respective petitions, both recorded in the said office on the 28th day of August, 1858.

1960. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in billiard tables and cues."—A communication.

1965. And JOSIAH LATIMER CLARK, of Adelaide Road, in the county of Middlesex, Civil Engineer, FREDERICK BRAITHWAITE, of Bridge Street, in the city of Westminster, Civil Engineer, and GEORGE EDWARD PREECE, of Bernard Street, in the county of Middlesex, Electrician, have given the like notice in respect of the invention of "Improvements in telegraph cables."

1966. And EDWARD LINDNER, of New York, in the United States of America, Engineer, has given the like notice in respect of the invention of "Improvements in breech-loading fire-arms, and ordnance, and in cartridges."

1969. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of governors or regulators for steam engines."—A communication from William W. W. Wood and John Rice, both of the city of Philadelphia, state of Pennsylvania, United States of America.

As set forth in their respective petitions, all recorded in the said office on the 30th day of August, 1858.

1988. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the manufacture of alumina."—A communication from M. Le Chatelier, Mining Engineer, residing at Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 1st day of September, 1858.

1992. And JOSEPH WALKER and JAMES BARNES, of Oakenshaw, in the county of Lancaster, Waterproof Cloth Manufacturers, have given the like notice in respect of the invention of "Improvements in blankets and lappings, for machine and block printing, and other similar purposes."

As set forth in their petition, recorded in the said office on the 2nd day of September, 1858.

2001. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in knitting machinery."—A communication.

As set forth in his petition, recorded in the said office on the 3rd day of September, 1858.

2006. And WILLIAM HENRY CHILD, of Providence Row, in the county of Middlesex, Brush Manufacturer, has given the like notice in respect of the invention of "Improvements in hair and skin brushes."

As set forth in his petition, recorded in the said office on the 4th day of September, 1858.

2014. And JOHN FIELDEN, of Woodshade, near Todmorden, in the county of Lancaster, Medicine Manufacturer, has given the like notice in respect of the invention of "An improvement or improvements in the construction or building of cops, whether of cotton, flax, silk, wool, or other fibrous materials, and also for certain utensils thereunto conducting or belonging."

As set forth in his petition, recorded in the said office on the 6th day of September, 1858.

2049. And WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in materials for dyeing and printing."—A communication from Professor Frédéric Kuhlmann, of Lille, in the empire of France.

As set forth in his petition, recorded in the said office on the 9th day of September, 1858.

2057. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement in water wheels."—A communication.

As set forth in his petition, recorded in the said office on the 10th day of September, 1858.

2090. And FRANCIS FOWKE, of Park House, South Kensington, in the county of Middlesex, Captain in the Royal Engineers, has given the like notice in respect of the invention of "Improvements in fire-engines."

As set forth in his petition, recorded in the said office on the 15th day of September, 1858.

2187. And MATTHAEUS HIPP, Technical Inspector of the Swiss Telegraphs of Berne, in Switzerland, has given the like notice in respect of the invention of "Improvements in electric telegraphs."

As set forth in his petition, recorded in the said office on the 1st day of October, 1858.

2240. And ALFRED NICHOLLS, of Manchester, in the county of Lancaster, Merchant, and THOMAS WALKER, of Birmingham, in the county of Warwick, Clerk, have given the like notice in respect of the invention of "An improved spring-hook, catch, or fastening."

As set forth in their petition, recorded in the said office on the 8th day of October, 1858.

2494. And ARTHUR HYDE DENDY, of 27, Fortess Terrace, Kentish Town, in the county of Middlesex, Esquire, Master of Arts, has given the like notice in respect of the invention of "Improvements in the construction of breakwaters or wave screens, applicable also in constructing bridges, roadways, piers, jetties, landing stages, and other structures."

As set forth in his petition, recorded in the said office on the 8th day of November, 1858.

2633. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "Improvements in fire-arms and ordnance, and in the projectiles to be used therewith."—A communication from Peter Rector Smith, of 2, Rue Ste. Appoline, Paris, in the empire of France, now residing in the United States of America.

As set forth in his petition, recorded in the said office on the 20th day of November, 1858.

2657. And JAMES FAIRWEATHER, of Dundee, in the county of Forfar, North Britain, has given the like notice in respect of the invention of "Improvements in weaving bags, sacks, and other tubular fabrics."

As set forth in his petition, recorded in the said office on the 23rd day of November, 1858.

2701. And CHARLES BURRELL, of Thetford, in the county of Norfolk, Engineer, has given the like notice in respect of the invention of "Improvements in traction engines and carriages."

As set forth in his petition, recorded in the said office on the 27th day of November, 1858.

2720. And CALEB BEDELLS, of Leicester, has given the like notice in respect of the invention of "Improvements in the manufacture of elastic fabrics, and in the machinery employed in this manufacture."

As set forth in his petition, recorded in the said office on the 29th day of November, 1858.

2757. And WILLIAM ROBERTSON, of Dundee, in the county of Forfar, North Britain, Engineer, and JAMES GUTHRIE ORCHAR, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for winding yarns or thread."

As set forth in their petition, recorded in the said office on the 2nd day of December, 1858.

2776. And EDOUARD ARISTIDE SERVIER, of Paris, in the empire of France, Enginer, has given the like notice in respect of the invention of "Improvements in pressure and fluid level indicators."

As set forth in his petition, recorded in the said office on the 4th day of December, 1858.

2799. And CHARLES WILLIAMS and WILLIAM ELLISON, of 17, Acton Place, Kingsland Road, in the county of Middlesex, have given the like notice in respect of the invention of "A new mode or method of securing and liberating the corks and stoppers of bottles."

As set forth in their petition, recorded in the said office on the 7th day of December, 1858.

2835. And ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in electric, magnetic, and electro-magnetic telegraph ropes or conductors."

2839. And GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the manufacture of lubricating oils."

As set forth in their respective petitions, both recorded in the said office on the 10th day of December, 1858.

2867. And JOHN PENDLEBURY, of Crumpsall, in the county of Lancaster, Bleacher, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials."

2868. And DAVID ROWAN, of Greenock, in the county of Renfrew, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines."

2877. And GEORGE BELL, of Wandsworth, in the county of Surrey, Gentleman, has given the like notice in respect of the invention of "An improvement in matches and fusees."

As set forth in their respective petitions, all recorded in the said office on the 15th day of December, 1858.

2905. And JAMES SOUTTER, of Edinburgh, in the county of Mid Lothian, Turner, has given the like notice in respect of the invention of "Improvements in apparatus for drying or airing linen or other articles of wearing apparel."

As set forth in his petition, recorded in the said office on the 18th day of December, 1858.

2953. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved composition for the protection of certain metallic surfaces."—A communication.

2957. And JOHN SHAW, of Manchester, in the county of Lancaster, Mechanic, has given the like notice in respect of the invention of "A new mechanical combination, called an indefinite feed movement."

As set forth in their respective petitions, both recorded in the said office on the 27th day of December, 1858.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 1st January*, 1859, *inclusive.*)

30th December, 1858.

5. WILLIAM BECKETT JOHNSON, Manager for Messrs. R. Ormerod and Son, Engineers, Manchester, in the county of Lancaster, for an invention of "Improvements in steam boilers and engines."—Dated 1st January, 1856.

25. COLIN MATHER, of Salford Iron Works, Manchester, in the county of Lancaster, Machinist, and CHARLES MILLWARD, of Salford, in the county of Lancaster, Engine Manager, for an invention of "An improvement in steam and vacuum gauges."—Dated 3rd January, 1856.

27. JOHN FOWLER, junior, of Bristol, for an invention of "Improvements in machinery for giving motion to ploughs and other implements used for cultivating land."—Dated 3rd January, 1856.

31st December.

2952. Sir JOHN SCOTT LILLIE, Companion of The Most Honorable Order of the Bath, of Pall Mall, in the county of Middlesex, for an invention of "Improvements in guns, fire-arms, and implements of war connected therewith."—Dated 31st December, 1855.

1st January, 1859.

136. JOSEPH SCHLOSS, of Wellington Chambers, Cannon Street West, London, county of Middlesex, Merchant, for an invention of "A piston bolt or certain improvements in fastening travelling bags, porte-monnaies, cigar-cases, writing-desks, drawers, doors, and similar objects where locks, bolts, or clasps are employed."—Dated 18th January, 1856.

Errata in Journal of 28th December.

2783. For "77, Fleet Street," read "84, Fleet Street."

2813. For "77, Fleet Street," read "84, Fleet Street."

Free Patent Museum and Library, South Kensington.

NUMBERS of VISITORS for the Week ending 1st January, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Dec. 27	Monday -	1426	619	2045—Fine.
„ 28	Tuesday -	660	354	1014—Fine.Wet
„ 29	Wednesday	323	301	624—Fine.
„ 30	Thursday -	249	141	390—Fine.Wet
„ 31	Friday -	147	226	373—Fine.
Jan. 1	Saturday -	115	57	172—Wet.Fine
	Total -	2920	1698	4618

Total number of visitors since the period of free daily admission (12th May, 1858) to 1st January, 1859, —54,604.

This Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 14th December, 1858, and each bearing that date.

No. 22,272. Robert A. Adams, of St. Louis, Mo., for an "Improvement in stencils."

"What I claim therefore, and desire to secure by Letters Patent, is, the preparation of the 'stencil' blank, in the manner described, to wit, in oil, shellac, and glue, applied as set forth; and I also claim the application of the sand or emery to the back of the 'stencil,' in the manner described, for the purpose specified."

No. 22,273. J. E. Atwood, of Mansfield Centre, Conn., for an "Improvement in sewing machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the vibrating arm H, which carries the dog *g*, its attached arm K, the swinging frame I, the independent levers *i*, *j*, the springs *h*, *l*, and the cam J, the whole applied, arranged, and operating substantially as herein set forth."

No. 22,274. Daniel S. Baker, of Providence, R. I., for a "Wrist-band fastener."

"What I claim as my invention, and wish to secure by Letters Patent, is, the spring E, firmly attached to the front of the fastener in its application to the heel H by means of a shoulder G, and the end J, in such manner as to form a perfect fastener, and easily operated upon, substantially as set forth."

No. 22,275. Amos H. Boyd, of Saco, Me., for an "Improvement in sewing machines."

"I am aware that the looper has been revolved partially around and then back, and also that a reciprocating movement has been given to it without the employment of springs, hence I do not claim to be the first who has effected this; but, having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the looper E, the bars B and C, and cam wheel D, when constructed, arranged, and operated in the manner substantially as described, and for the purpose specified."

No. 22,276. John S. Clark, of Philadelphia, Pa., for an "Improvement in stoves."

"Having thus fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, the movable plate *d*, as it is arranged with and has relation to the grate, the usual back plate *f*, the air passages *i*, *i*, and the passage for the products of combustion, as set forth."

No. 22,277. John S. Clark and Washington Harris, of Philadelphia, Pa., for an "Improvement in stoves."

"Having thus fully set out the construction and operation of our invention, what we claim as new, and desire to secure by Letters Patent, is, combining with the adjustable air passages at the top of the interior cylinder, or lining the section of the hollow annulus with perforations, its lower edge resting upon the inner edge of the lining and its upper edge against the shell plate, and thus forming an air chamber, as herein set forth."

No. 22,278. Stephen Culver, of Newark, N. Y., for an "Improvement in tea and coffee pots."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the leach B, composed of the receptacle *a*, the canister *b*, and the tube or siphon *c*, constructed and arranged substantially as described. 2nd, the combination of the reservoir D with the leach B, substantially in the manner and for the purposes set forth. 3rd, the diaphragm *d* with the steam orifice *i*, as specified, and the combination thereof, with the receptacle of the leach, in the manner and for the purpose described."

No. 22,279. S. S. Curtis, of Croton Corners, N. Y., for an "Improvement in excavators."

"I do not claim the employment of chains and pulleys for suspending the scoop, or for raising it for the purpose of transporting or tilting and discharging the same; but what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the eccentric scoop F, with the adjustable gauge-stops and braces K, K, or their equivalents, arranged and operating substantially in the manner and for the purpose set forth."

No. 22,280. William Edge, of Dorringtown, Pa., for an "Improvement in R. R. brake."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application to railroad cars of a vertical self-acting safety car brake, consisting of a flanged safety block F, cam wheel M, axle U, lever N, chains H and I, connecting rods K, bumper Q, wheel block S, pedestal E, and shafts P, the whole combined and operated substantially as described in said specification."

No. 22,281. John Ericsson, of New York, N. Y., for an "Improvement in air engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the within-described system of levers, rock-shafts, and connecting rods, or its equivalent, for combining the supply and working pistons with the crank shaft of the engine to produce the operation herein specified. 2nd, the ring c^4, the notches c^{11}, check pins c^5, and the elongation c^{11} of the supply piston, or their equivalents, for effecting the required transfer of the air to and from the heater, and the cooling of the cylinder and preservation of the packing of the working piston. 3rd, the telescopic tube *g*, applied within the working cylinder and its prolongation, by means of which tube the air is brought in proper contact with the heating surfaces, substantially as herein set forth."

No. 22,282. John H. Fairchild, of Jericho, Vt., for an "Improvement in water-wheels."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the single wheel D, in combination with the draught tube F, said wheel being placed within the penstock A, and arranged either horizontally or vertically with said tube, substantially as and for the purpose set forth. I also claim the annular gate H, placed within the sliding frame G, in connection with the adjustable plate J, arranged substantially as shown, to operate as described.

No. 22,283. G. W. Fairfield, of Holyoke, Mass., for an "Improvement in car seats and couches."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the flexible backs, with the curved grooves F and *d*, and the sliding beam G, so that the backs may be brought into a horizontal position, substantially as specified."

No. 22,284. Jacob Frick, of Philadelphia, Pa., for an "Improvement in feed-water and blow-off apparatus for steam boilers."

"I claim, and desire to secure by Letters Patent, combining an air vessel, having cocks and branches, arranged substantially as herein described, with the feed and blow-off apparatus, for which Letters Patent of the United States were granted to me on the eighteenth day of March, A.D. 1856, in the manner and for the purpose specified."

No. 22,285. William W. Gaige, of Rochester, N. Y., for an "Improvement in compositions for tanning leather."

"I do not claim to have discovered any new material for tanning, except what is known more or less to the trade, but I do claim to have invented the use of salt and salsoda, in the proportion specified, for a preparatory liquor. I also claim

the combination of starch and catechu in the proportion specified for the 2nd or first tanning liquor; and I also claim the combination of starch, catechu, and saltpeter, in the proportion specified, for the 3rd liquor; and I also claim the combination of starch, catechu, and alum, in the proportion specified, in the 4th liquor."

No. 22,286. Richard Gornall, of Baltimore, Md., for an "Improvement in machine for making hollow bullets."

"I do not confine myself to the use of a single core, as a series of cores may be arranged on a revolving or reciprocating plate operated to carry them alternately, first, into positions to combine with the dies, and afterward into proper positions relatively to a cutter or cutters to turn the bullets; nor do I confine myself to the use of a core of any particular form, nor to the manufacture of any particular form of bullet, nor to the use of any particular contrivances for giving motion to the several parts of the machine; but what I claim as my invention, and desire to secure by Letters Patent, is, 1st, the employment, in combination with a punch and a set of dies, or their equivalent, for pressing blanks or pieces of lead into a form, approximating more or less to the desired form for hollow bullets, of a revolving core serving, firstly, to produce the cavities in the bullets, and secondly, as a mandrel to revolve them, for the purpose of finishing their exteriors by turning them, substantially as herein specified. 2nd, the employment, in combination with the revolving core, of a turning cutter operating automatically, substantially as herein specified. 3rd, the employment, in combination with the revolving core, and turning cutter of a female center, operating substantially as described, for the purpose of securing the bullets on the core during the turning operation, and liberating them after such operation."

No. 22,287. George W. Grader and Benjamin F. Cowan, of Memphis, Tenn., for an "Improved steam and water alarm gauge for steam boilers."

"We do not claim broadly the invention of a combined steam and water alarm gauge; nor do we claim broadly the dispensing of a stuffing box or packing in a water gauge; but what we claim as our invention, and desire to secure by Letters Patent, is, the combined arrangement of the two valves F, I, and their seats, the several chambers and passages, the valve levers and their connections within the case A, substantially as described, whereby the construction of the instrument is rendered simple, its form compact, and its size limited without the use of stuffing boxes or any packing."

No. 22,288. Michael Hardy, of New York, N.Y., for an "Improvement in machinery for forming hat bodies."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining with a pervious cone, connected with an exhausting apparatus, a picker or brush of a conical form, substantially as and for the purpose specified. I also claim, in combination with the pervious cone and conical picker or brush, the apron formed and mounted, substantially as described, for supplying fur to the several parts of the length of the picker, in proportion to the diameter, as set forth. I also claim, in combination with the pervious cone and conical picker or brush, substantially as described, the employment of a series of rollers forming a concave, substantially as described, to direct the fur toward the cone, as described. And I also claim, in combination with the two cones, the one on which the bat is formed, and the other fitting over the bat, the tube connected with the exhausting fan and adapted to receive and hold the outer cone, substantially as described, to effect the transfer of the bat of fur fibers from the inner to the outer cone, as set forth."

No. 22,289. John Henry Holt and Josiah H. Gerould, of Chicago, Ills., for an "Improvement in steam radiators."

"Claim.—What we claim as our invention, and desire to secure by Letters Patent, is, the combination of the wire gauze burner B (and its vapor hood D), applied to the self-acting boiler C, above described, connected as above described with the steam condensing cylinder I, and its reservoir J, air cocks, and safety and vacuum valves, and its tubes and radiators M, with their ends open in the apartment to be heated, and all of which are above particularly described, and governed by the gas regulator H, as above described, which combination produces a new and improved self-acting and self-regulating apparatus for raising the temperature of any given apartment in which it may be set up by radiation from surfaces heated by condensation of steam generated by the flame of combustible gas."

No. 22,290. B. B. Hotchkiss, of Sharon, Conn., for an "Improvement in harness snaps."

"Having now fully described my improved method of securing springs to snaps, what I claim as my invention, and desire to secure by Letters Patent, is, securing the spring B to the snap hook A by means of a collar C, c^{11}, so constructed and applied as to press against the broad end, as well as the faces of the spring, substantially in the manner and for the purpose s within set forth."

No. 22,291. Joseph Hough, of Buckingham, and Jacob Moore, of Bart, Pa., for an "Improvement in car brakes."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the slides F, and levers D, J, as and for the purposes herein shown and described."

No. 22,292. Charles R. Hurlburt, of Seymour, Conn., for an "Improvement in car springs."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the two kinds of disks, Figs. 3 and 4, plane, and raised with the rings Fig. 5, when the whole is constructed, combined, and arranged substantially as herein described."

No. 22,293. N. Jensen, of Washington, D. C., for an "Improvement in bandages."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, forming instruments of two wire springs *a* and *g*; the springs *g*, which supports the bag, being hinged and hooked to the other spring *a*, for the purposes as set forth."

No. 22,294. Charles Lammrich, of New York, N. Y., for an "Improved folding table."

"What I claim as my invention, and desire to secure by Letters Patent, is, the folding legs *a*, *a*, combined with and hinged on to the bed or top of the table, in substantially the manner and for the purposes specified."

No. 22,295. Albertus Larrowe, of Cohocton, N. Y., for an "Improvement in sled brake."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of lever *c*, scrapers *e*, and rods *f*, operating as described, for the purpose of a self-acting brake, and self-relieving in backing the sled, as set forth."

No. 22,296. Charles Lenzmann, of Brooklyn, N. Y., for an "Improvement in engine hose."

"Having described my invention, and the method of manufacture, I will now state what I claim as new, and desire to secure by Letters Patent of the United States;— claim as a new article of manufacture the hempen hose woven, saturated, and covered, as herein-before described."

No. 22,297. R. Mc. G. Lytle, W. I. Alston, and Lorenzo W. True, of Williamson County, Tenn., for an "Improved folding chair."

"Having thus described our improvements in portable chairs, what we claim, and desire to secure by Letters Patent, is, first, the arrangement of the arms and also of the back, substantially as described, so that the back retains the arms in place when folded. Second, the arrangement of the legs, substantially as described, so that one set of legs folds over and retains the other set in place. Third, the combination of the slotted bolt with the socket plate and spring stop, arranged substantially as described, for connecting the arms with the seat. Fourth, in combination with the side bars we claim the screw strap, or its equivalent, for connecting the bars with the legs, so that when folded between the legs, one is raised and the other depressed, for the purpose set forth. Fifth, connecting the legs with the seat, by means of a hinged socket joint, arranged substantially as described, so that each pair of legs can be withdrawn from their sockets and folded down without being disconnected fron each other or from the seat, for the purpose set forth."

No. 22,298. Joseph Mansfield, of Jefferson, Wis., for an "Improvement in shower baths."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a shower bath having chambers B, C, tubes F, G, H, I, and stopcocks *b*, *c*, substantially as herein shown and described."

No. 22,299. EDWARD MARSHALL, of New York, N. Y., for an "Improvement in breech-loading cannon."

"Having thus fully described my invention, what I claim is, 1st, the employment of the adjustable chucks C, C, constructed, arranged, and operated substantially in the manner and for the purpose herein set forth. 2nd, I claim the recesses E, E, made from the outside of the gun into the bore, for the purpose of containing and concealing the chucks C, C, as is herein set forth. 3rd, I claim the combination of the chucks C, C, with the pin F, constructed substantially in the manner herein described. 4th, I claim the arrangement of the pin F, the collar G, and the screw H, substantially in the manner and for the purpose specified. 5th, I claim the employment of projections I, for the purpose of securing and concealing the handles of the cam, as is herein fully set forth."

No. 22,300. GILBERT MAYNARD, of Greenfield, Mass., for an "Improvement in children's carriages."

"I do not claim broadly the employment of coil springs in connection with carriages; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, connecting the axle C with the tongue A, by means of the peculiarly formed rods B, which also serve as springs for the vehicle, as herein shown and described."

No. 22,301. F. H. MOORE, of Boston, Mass., for an "Improved stair sweeper."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the box B, and brush E, with the dust pan C, arranged and operating in the manner substantially as described, whereby the dust is prevented from escaping, as set forth. 2nd, and in combination with the above, I claim the curtain F, operating substantially in the manner specified."

No. 22,302. Z. F. NANCE, of Richmond, Va., for an "Improved machine for turning irregular forms."

"I claim passing the piece to be turned through the pattern, and the combination of the same with the swinging frame C, and parts connected therewith, as and for the purposes set forth."

No. 22,303. CHARLES J. C. PETERSEN, of Davenport, Iowa, for an "Improvement in steam boilers."

"Having thus described my improvements, what I claim as new, and want to secure by Letters Patent, is, arranging the feed pipe q, in such a manner under the fire box, that the same in combination with plates r, placed between the bends of the feed pipe constitutes the bottom of the ash box, so that the feed water running through the pipe q is heated by the ashes, said plates r being so arranged that they can be raised and actuated by cranks t and levers s^1, so as to leave room for the ashes to escape, the whole being arranged and constructed substantially as described."

No. 22,304. HENRY H. POTTER, of Carthage, N.Y., for an "Improvement in adjustable carriage seats."

"I do not confine myself to the precise arrangement herein shown, for various similar or equivalent plans might be devised for effecting the same result or adjustment of the seat, although, perhaps, the plan herein shown and described would be as simple and efficient as any. Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching the seat B, to the body A, of the vehicle, substantially as shown, or in any equivalent way, so as to admit of the seat being turned obliquely with the body, either to the right or left, for the purpose set forth."

No. 22,305. GEORGE P. REED, of Roxbury, Mass., for an "Improved escapement for time pieces."

"I claim the improved escapement, as constructed with its two impulse cams, or a double impule pallet J, applied to the balance wheel axle, and to operate with the escape wheel A, substantially as specified, in combination with the double detent lever lifting reverse cams or pallet F, applied to the detent lever of the escape wheel A, and operated by a cam screw S, or its equivalent, supported by the axle of the balance, essentially as herein-before explained."

No. 22,306. ROBERT E. ROGERS, of Philadelphia, Pa., for an "Improvement in steam generators."

"Having thus fully set out the constructien and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the arrangement of the coils, constructed as herein described, the one being concentrically within the other, the annular spaces between the successive coils constituting direct and separate, and the only passages and outlets for the products of combustion, the entire lower portion of every coil having fire underneath it, and the whole operating as herein set forth. 2nd, I claim the arrangement of the feed-water pipe, and the air-feeding pipe in relation to each other, and to the generating coils, whereby I am enabled to introduce the water in graduated quantities into the upper part of the coil, and use atmospheric air to force the water over or upon the heated surfaces, as described; and 3rd, I claim imbedding the lower portion of each of the concentric coils in cast iron, cast around it to a greater or less height, for the purpose of protecting the coils from high degrees of heat, as herein set forth."

No. 22,307. F. ROY, of Parish, of St. Bernard, La., for an "Improvement in furnaces for evaporating sugar juices."

"I do not claim broadly and of itself, the open setting of kettles, but what I do claim is the setting of sugar kettles with the system of radial braces i, i, so situated as to divide the space around the kettle into two apartments, communicating by the openings o, when these upper chambers communicate with each other, and by flues X, with a common flue g, the whole operating substantially as and for the purpose set forth."

No. 22,308. GEORGE D. RUSSELL, SAMUEL A. RUSSELL, and CHARLES L. RUSSELL, of Birmingham, Conn., for an "Improved forceps for fastening clasps on hoop skirts."

"What we claim as our invention, and desire to secure by Letters Patent, is, the pliers, having their jaws provided with recesses b, b, and lips c, c, and with a lever, or wedge-like attachment B, to operate in combination with the said lips, substantially as described."

No. 22,309. JOSEPH D. SANDERSON, of Stetson, Me., for an "Improvement in beehives."

"I do not claim the employment or use of spare honey boxes placed around a hive, and communicating with it, for these have been previously used; neither do I claim broadly, ventilating the hive, by having a current of air passing vertically through it by means of apertures, or openings at the top and bottom, for this has been previously done; nor do I claim the perforated horizontal tubes I, I, nor the box J; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the holes h in the back of the hive communicating with the grooves (i) in the doors E, E, and the grooves (j), in the under side of the top F, of the box A, in connection with the boxes G, provided with perforated plates (K), whereby the hive is perfectly ventilated, and the rain excluded."

No. 22,310. JULIUS B. SAVAGE, of Southington, Conn., for an "Improvement in nut machines."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment or use of the cutter E, dies L, M, F, and punch G, in connection with the conveyers and adjusters j, k, l, m, n, and the jaws P, Q, or their equivalents, the whole being arranged and combined to operate as and for the purpose set forth."

No. 22,311. WILLIAM F. SHAW, of Boston, Mass., for an "Improvement in lamp-shade supporters."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, as a new article of manufacture, is the lamp-shade supporter C, with its upper and lower springs constructed of a single piece of metal, in the manner substantially as specified."

No. 22,312. OREN STODDARD, of Busti, N. Y., for an "Improvement in harvesters."

"I am aware that friction rollers have been applied to the finger bars of harvesters, in order to diminish the friction attending the operation of the sickle, but so far as I am aware, for this purpose only. I am also aware, that levers arranged similarly to those herein shown and described, for regulating the hight of the sickle, have been previously used, I therefore do not claim broadly the application of friction rollers to a finger bar and sickle, when viewed merely as such, irrespective of the other function herein-before described; neither do I claim the levers N, O, for raising and lowering the finger bar and sickle; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the conical rollers G, G, two or more, attached to the finger bar C, in connection with the sickle bar b, provided with an inclined back, and the cap-plate H, or its equivalent, the whole being arranged to operate substantially as and for the purpose set forth."

No. 22,313. Thomas Stubblefield, of Columbus, Geo., for an "Improvement in water gauges for steam boilers."

"What I claim as my improvement in the alarm gauge, is, the combination of a float, a secondary valve, and a main valve, substantially as herein set forth. I also claim the method of preventing a too sudden opening of the main valve by insulating (in a chamber or its outer side exposed to the air) a quantity of steam, substantially as herein set forth."

No. 22,314. John W. Sibbet, of Cincinnati, Ohio, for an "Improvement in attaching carriage thills to axles."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the plate C and socket or tube D attached to the clip B, in connection with the pin G attached to the thill F, and the hook H, provided with a shank I, nut J, and ratchet K, the shank of the hook being fitted in the tube D, and the ratchet having a pall L catching into or engaged with it, the whole being arranged substantially as and for the purpose set forth."

No. 22,315. Charles William Siemens, of London, Eng., for an "Improvement in fluid meters."—Patented in England, 4th March, 1853.

"Having now described the nature of the said invention, and in what manner the same is to be performed, I wish it to be understood that what I claim, is,—First, the construction of rotary fluid meters with a revolving wheel or drum, having tangential or oblique apertures, and connected with a counter, and inclosed in a fluid-tight case, and so arranged that the fluid to be measured flows from the center towards the circumference of the wheel or drum, substantially in manner herein-before described. Second, the application to rotary fluid meters of retarding vanes, substantially in manner and for the purpose herein-before described. Third, constructing the revolving part or wheel of a fluid meter and the fixed part or pipe which introduces the fluid into it with two or more collars or flanges on one or both of the said parts, so as to check the passage of the fluid by the production of eddies, substantially in manner herein-before described. Fourth, supporting the wheels or revolving parts of fluid meters by means of a flat or hollow plate or cap of steel or other suitable material attached to the wheel, and resting upon a fixed pivot and combined with an oil chamber, substantially as herein-before described. Fifth, constructing fluid meters with a revolving wheel or drum, having tangential or oblique apertures and retarding vanes, and provided with an oil chamber and pivot, and connected to a counter, and inclosed in a fluid-tight case, substantially as herein-before described. Sixth, constructing fluid meters with a dirt box or strainer, arranged so that it may be opened and the dirt removed without disturbing the meter or the pipes, substantially as herein-before described in reference to figures. Seventh, constructing fluid meters with the wheelwork or a portion of the wheelwork of the counter inclosed in an oil chamber whico is exposed to the pressure of the fluid in the meter, substantially as herein-before described."

No. 22,316. Thomas Turner, of Marysville, Ohio, for an "Improvement in cultivators."

"I do not claim a double plow, nor do I claim two mold boards attached to beams rendered capable of a lateral adjustment, for expanding plows and cultivators have been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the pulverizing mold board F and hilling mold board G, constructed as shown, and attached respectively to the longitudinally and laterally adjustable beams A, B, the whole being arranged substantially as and for the purpose set forth."

No. 22,317. Washington Van Dusen, of Philadelphia, Pa., for an "Improvement in adjustable cradle for dry docks and marine railways."

"What I claim as new, and desire to secure by Letters Patent, is, the combination and arrangement of the cradle bars I, R, jointed, connecting and sliding bars M, N, R^1, chains H, H^1, and sliding lifting screw blocks F, respectively connected together and to the cradle frames B or ribs E, in such manner, and in such relation to each other, as to enable the cradle bars I, R, to be adjusted to the bilge of the vessel desired to be hauled up, and to sustain the same by operating the lifting screws F on one side of the cradle frames B, substantially as before described."

No. 22,318. Elijah Ware, of South Boston, Mass., for an "Improvement in slide valve gear of steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the single eccentric, having a short eccentric rod D, the fulcrum plates E, G, carrying a fulcrum pin *b*, having a connection with the short eccentric rod, the slotted frame H receiving the fulcrum pin and a pin on the eccentric rod, and the slotted plate J receiving a pin *e*, or its equivalent, attached to a rod connected with the valve, the whole being applied to operate substantially as herein set forth."

No. 22,319. Charles S. Westcott, of New York, N.Y., for an "Improved lock."

"I am aware that revolving slotted wheels have been heretofore used, and therefore distinctly disclaim the invention of the same. I also disclaim the invention of the direct entering of a shoulder or attachment to the bolt into the slotted wheels; but what I claim as my invention, and desire to secure by Letters Patent, is, the ungearing of two sets of wheels when a lock is unlocked, in such a manner as to allow the slotted wheels, which receive the tongue of the bolt, to remain stationary, while the remaining wheels can be turned to any desired position, so that the combination can be changed through the keyhole from the front of the lock; said ungearing being effected by means of a bar (K), or its equivalent, acting upon a movable piece of metal which supports the shaft upon which one set of the wheels revolves, said bar being moved by the action of throwing the bolt so as to throw one set of wheels out of gear with the slotted wheels when the lock is unlocked, and bring them into gear again when it is locked."

No. 22,320. Norman W. Wheeler, of Brooklyn, N.Y., for an "Improved apparatus for operating valves of steam-engines."

"I claim actuating the cut-off valves of steam engines by means of an eccentric, or its equivalent, when the motion of the main valve is derived from the same eccentric, or its equivalent, but modified by a movement derived directly from a reciprocating part, substantially as described."

No. 22,321. John L. Whetstone, of Cincinnati, Ohio, for an "Improvement in valve gear of steam-engines."

"Having thus described my invention, as shown in the drawings, I do not wish to be understood as limiting myself to the precise arrangement or combination of parts as herein described, but will vary them as circumstances may require, while at the same time I accomplish the same ends by means substantially the same, as, for instance, a sliding plate valve, or a piston valve, may be used instead of the rotating valve herewith shown; and in that case, if preferred, a forked arm may be attached to the rod which operates the cut-off valve, and the adjustable radius bar may be operated in the forked opening, so as to give the cut-off valve a similar varying intermittent motion as that herein described. Or the arrangement of the parts may be reversed, as, for instance, placing the forked lever or arm on the rod or rock shaft, which operates the main valve of the engine, and communicating motion to the cut-off valve therefrom, through an adjustable radius bar similar to that herein described, and, if desired, the governor may be made to operate the cut-off and throttle adjustments by a direct attachment of rods and levers to the rotating disk, or an equivalent device without the worm wheel arrangement. What I claim as new, and desire to secure by Letters Patent, is, 1st, operating the cut-off valve by means of a forked arm or lever O, which is actuated by means of an adjustable radius bar K, which derives its motion from the rock shaft, or from the eccentric, which operates the main valves of the engine, the whole being arranged substantially as described. 2nd, adjusting the radius bar K, by the variations of the speed of the governor by means of a rotating disk operated by a worm wheel R, said worm wheel being in such relation to the governor, that when the governor is running at its right speed no motion is communicated to the same; but when the governor runs either too fast or too slow, the worm wheel is turned in one direction or the other, and the radius bar K is raised or lowered so that the cut-off is effected sooner or later, the whole being arranged and constructed substantially as described. 3rd, operating the throttle and cut-off valve adjustments in combination, in such manner that the throttle valve is moved slowly, and is not closed to any considerable extent, while at the same time the cut-off adjustment is moved rapidly, and on the other hand, when the cut-off adjustment is in position for the shortest period of admission of steam, the movements of the throttle valve are the most rapid, the whole being accomplished in the manner substantially as described."

No. 22,322. H. D. Wickes, of Flint, Mich., for an "Improvement in valves of steam engines."

"I am aware that it is not new to have a valve constructed so as to serve as a steam chest, but I am not aware that the steam has been admitted to such valves in any other manner than from above the ports, which mode of admitting the steam subjects the valve, while operating, to a downward

pressure that causes it to bind on its seat, whereas by admitting the steam from below the ports, the valve is subjected to an upward pressure, and thus is relieved from bind and wear while operating. I do not claim broadly so making a valve that it shall perform the office of a steam chest; but what I do claim as my invention, and desire to secure by Letters Patent, is, the valve B, having the ports and cavities *f*, *f*', *h*, *c*, and suspended between screws *j*, *j*, in combination with valve seat *a*, *a*, having the cavity or port *b* substantially as and for the purposes set forth."

No. 22,323. Robert Wilson, of Milton, Penn., for an "Improved machine for drilling metals."

"I do not claim the self-feeding of a hand or power drilling machine with a ratchet wheel, having a feed hand worked by an involute or scroll on the driving shaft, nor do I claim a self-feeding and self-reacting drilling machine, for these principles were in use before my application; nor do I claim anything in a table on which to lay the metal to be operated upon, therefore I do not describe or show a table at all, using any of the known forms which may best suit the work to be laid thereon; but what I do claim, and desire to secure by Letters Patent, is,—First, the adjustable inclined plane for the purpose of increasing and decreasing the feed of a hand or power drilling machine for all kinds of metal. 2nd, I claim the peculiar construction of the self-acting feed escapement, combined with the adjustable inclined plane, for the purpose of throwing off and on the feed, to suit any depth of hole within its entire descent, and then return again only to the hight required within its ascent. 3rd, I claim the adjustable bearing against which the lower end of the feed hand rests, in combination with the involute or scroll, and the feed hand which works upon it, for the purpose of producing a safety adjustable self-acting pressure escapement, all substantially in the manner and for the purpose set forth."

No. 22,324. John Withers, of Collinsville, Ill., for a "Fire-escape ladder."

"Having thus described the construction and operation of my invention, what I claim as new therein, and desire to secure by Letters Patent is, 1st, the combination of the canvas bag or shoot K, with the ladder A, in the manner described for the purpose specified. 2nd, the combination of the bed J, and its frame, as shown and described, arranged to open and close, as set forth. 3d, the arrangement of the two ladders A and B with each other, in the manner set forth, and also the means of adjusting the ladder B, substantially in the manner described."

No. 22,325. Edward S. Wright and Theodore P. Gould, of Buffalo, N. Y., for an "Improvement in breech-loading cannon."

"1st, we claim a mortise made through the breech of a cannon, in combination with the sliding abutment D, for the purposes and substantially as herein set forth. [2nd, we claim the expansive chamber H, or its equivalent, in combination with the cannon A, and sliding abutment D, for the purposes and substantially as herein described. 3rd, we claim the application of a wrought-iron band, shrunk around the breech of a cannon, when the same is combined with a mortise and sliding abutment, as herein set forth."

No. 22,326. Joseph Young, of Marshallton, Pa., for an "Improvement in raking attachments to harvesters."

"I am aware that rakes vibrating or moving in the arc of a circle have been previously used, and I therefore do not claim broadly such device; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the rake bar H, shaft G, rod *j*, provided with friction roller *l*, jointed connecting rods F, N, attached to crank pulley *e*, inclined adjustable plate K, spring *p*, and nut M, substantially as and for the purpose set forth."

No. 22,327. Nathaniel Cradit, of Ripley, Ohio, assignor to Chester G. Robinson, of South Reading, Mass., for an "Improvement in lamps."

"I claim as new, and of my invention herein, 1st, the described or equivalent arrangement of draught passages *b* 1, 3, communicating with the oil reservoir and central tube Q, conducting the air and gases from thence to the interior of the wick as explained. 2d, the box M, P, Q, and shell H, in the described combination with two rectilinear sets of wick elevating pinions, or their equivalents, by which two flat wicks are converted into one circular wick, as set forth."

No. 22,328. Samuel Flint and Robert S. Rogers, of Lynn, Mass., assignors to William F. Johnson, of said Lynn, for an "Improvement in heels for boots and shoes."

"We are aware that heels have been made hollow or chambered, and with what is usually termed 'hard india rubber,' and that such heels have had elastic balls or meniscus shaped pieces or plates of india rubber let into the same, and to work toward and away from the perforated plate of metal fixed in the heel; we are also aware that such elastic meniscus balls and perforated metallic plates have been applied to the soles of shoes, the whole being described in Charles Goodyear's application for a Patent rejected September 27th, 1856; therefore, we do not claim such, our improved manufacture of heel differing essentially therefrom, as, in the first place, the india rubber part is a solid block or cylinder, filling the whole space provided within the wooden body for its reception. Secondly, the heel contains no unfilled space or chamber between it and the ball, and in which the rubber may vibrate as it does in the heel described by the said Goodyear. Furthermore, the body part of our heel is made of wood. Taking it as a whole, it is a new or improved article of manufacture, wherein the rubber acts as a guard to the wooden body or as a preventive of wear of the same. We do not claim a heel made wholly of india rubber, nor one composed of metal and india rubber; but what we do claim is, an improved manufacture of heel made of wood and india rubber, combined and arranged together, substantially as set forth."

No. 22,329. George W. Fogg, of South Dedham, Mass., assignor to himself and D. S. Fogg, of said South Dedham, for an "Improved file-cutting machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, controlling the opening of the regulating valve of an atmospheric trip hammer employed in a file-cutting machine, for the purpose of regulating the blow thereof, and producing a uniform depth of cut from end to end of the file, by means of a pattern whose forms corresponds with or has a proper relation to the longitudinal profile of the file blank, applied and operating upon the said valve, substantially as herein described. 2nd, in combination with the arrangement of the cutter guide block K, at a greater inclination from a vertical plane than the hammer stem, and with the fitting of the cutter or cutter stock loosely in said guide block. I claim the employment of a clamping piece Z, or its equivalent, applied to the said guide relatively to a proper bearing on the opposite side of the cutter, and operated substantially as described, to produce the peculiar action of the cutter herein specified."

No. 22,330. William H. Manning, of Owego, N. Y., assignor to himself and Lucius H. Olmsted, of said Owego, for an "Improvement in machines for cutting soap."

"Having thus fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, the machine herein described for converting block and slab soap into bars and cakes, consisting substantially of the frame or series of cutters, the guiding and supporting bars, and the presser or follower."

No. 22,331. Calvin Pepper, of Albany, N. Y., assignor to himself and John G. Treadwell, of said Albany, for an "Improvement in the method of applying gas for heating and illuminating purposes."

"I do not claim to be the first inventor of a porous gas burner, as I am aware they have been constructed of wire gauze, and by making beds of such material covered with broken pumice stone, and by a composition of matter, patented by Frederick C. Kraunse, and by some other substances other than silicious sand; and I do not claim the burning of gas in such way, except through silicious sand in a state of division; and I do not claim to be the inventor of passing gas through sand for the purpose of purifying the gas; and I make no claim for burning gas for illuminating purposes only, after having passed through the sand and separate from the same; and I make no claim in this application for the use of gas or sand in a separate state; and I make no claim for the ventilating arrangement described, or for the admixture of gas and atmospheric air before burning. What I claim as my invention, and desire to secure by Letters Patent, is, passing coal or other inflammable gas alone or in admixture with atmospheric air through a stratum or mass of silicious sand, without aggregation of particles to be inflamed at the surface, substantially as described, for heating purposes, and also for illuminating as incident thereto, as described."

No. 22,332. Thomas Wiard, of Louisville, Ky., assignor to George W. Pitken, H. W. Pitken, and W. L. P. Wiard, of said Louisville, for an "Improvement in ploughs."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, the standard A, with its permanent wing B, and recesses or shoulders for the reception of the removable wing I, constructed and arranged substantially in the manner and for the purpose set forth. I also claim, in combination with the standard A, constructed as herein set forth, the adjustable cutting and guiding wheel L, so that said wheel may be thrown into or out of action, as the circumstances of the case may require, and as described. I also claim the uniting of the handles beam and standard together, by means of the pockets *d*, dowels *e*, recesses *f*, and bolt *h*, substantially in the manner herein described."

No. 22,333. William Stephens, of Old Forge, Pa., assignor to Richard Stephens, of said Old Forge, for an "Improvement in slide valve gear for oscillating engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination of the two independently operating sliding bars I and P, and the levers M, M^1, the former sliding bar being connected with the valve rock shaft, and furnished with fixed or adjustable stop pieces N, N^1, and the latter being connected by an arm with the cylinder trunnion, and the whole operating substantially as described to produce the motion of the valve or valves. 2nd, combining the stop-pieces N, N^1, with the sliding bar I, by fitting them to slide in slots 6, in the said bar, and attaching them to a double slotted wedge S, S^1, applied to the said bar, substantially as described, for the purpose of adjusting or varying the lead of the valve or valves."

No. 22,334. Isaac C. Stern, of Philadelphia, Pa., assignor to himself and George W. Stone, of said Philadelphia, for an "Improvement in steam boilers."

"I do not desire to claim broadly the heating of the feed-water, by allowing it to pass through tubes in the fire-place, as such a plan has been heretofore devised; but I claim, and desire to secure by Letters Patent, the application to locomotive boilers of the arrangement of tubes herein described, that is to say, the arrangement of the coil *b*, or its equivalent, on the inside and on one side of the fire box and the coil b^1, or its equivalent, on the opposite side, when one coil communicates with one pump, and the opposite coil with the other pump of the engine, and when the opposite coils are connected together by the pipe *d*, so that the cold water direct from the pumps may pass into the coils, and thence in a heated state into the boiler, and so that the water may at all times, circulate through both coils, as herein set forth."

No. 22,335. Thomas Shaw, of Philadelphia, Pa., assignor to himself and C. S. Patterson, of said Philadelphia, for an "Improvement in gas-burning stoves."

"I claim, and desire to secure by Letters Patent,—First, the inverted cone *c*, when arranged within and in respect to the hollow cylinder A, and connected to the gas pipe B, substantially as and for the purpose herein set forth. Second, extending the gauze disk *e*, beyond the opening for the passage of the gas, and so arranging the overhanging portion of the said disk that it shall be exposed to the air, as herein set forth and for the purpose specified. Third, the construction of the oven, consisting of the inverted box D, its opening *q*, and lining E, and the inner cylinder *k*, the whole being arranged to form the intervening passages *m*, *n*, and *p*, for the purpose set forth."

No. 22,336. Olive Ann Brooks, of Somersworth, N. H., administratrix of the estate of Lebbeus Brooks, deceased, late of Great Falls, N. H., for an "Improvement in straw cutters."

"It is not intended herein to claim a rotary cutter cylinder and a roller for the cutter to work against to feed and cut straw, nor is it intended herein to claim the feeding and cutting straw in the manner described in the Specification of the United States Patent numbered 13,807, wherein the knife has a compound motion, composed of two circular motions, and operates in conjunction with a roller; nor is it intended herein to claim a rotary cutter cylinder or set of cutters and a swinging bed operating together, as shown in the United States Patent numbered 12,699; nor is it intended herein to claim a straw cutting machine, as constructed in such manner that its bed and knife shall each operate with a compound motion, as described in the United States Patent numbered 18,084; but what is claimed herein as the invention of the said Lebbius Brooks, is, an improved straw cutting machine, as constructed of two cutting knives or shears I, M, or their equivalents, and so that while one of them, when the machine is in operation, shall have a compound motion, whereby its cutting edge shall be made to move in an elliptical path toward and away from the trough B, the other shall have only a reciprocating motion in a circular arc toward and away from the said trough, the lever frame, carrying the lower knife or bed, being made to turn on a fulcrum rod, or its equivalent, and to be connected with the upper knife by means or mechanism, essentially as described; also, the application to the upper knife, having a compound motion as described, of a toothed rake N, to operate therewith, and facilitate the feeding of the straw forward, in manner as specified."

Re-issues.

Ethan Allen, of Worcester, Mass., formerly of Norwich, Conn., for an "Improvement in pistols and other fire-arms."—Patented 16th April, 1845.—Re-issued 14th December, 1858.

"Claims.—Extending the rear end of the dog or catch (*c*) rearward, and beyond where it is jointed to the tumble of the percussion hammer, and connecting the upper end of the mainspring directly to the part so extended, or otherwise connecting the mainspring to the dog, so as to cause it to operate upon the hammer, dog, and trigger; also the arrangement of a mechanism in connection with a self-cocking arrangement, whereby I am enabled to make the fire-arm so as to be cocked at pleasure by the hammer, or to be operated entirely by the trigger as a self-cocker, and mechanism consisting of the stud *d*, and the dog or catch (*c*) in connection with the tumbler as described, or their equivalents, whereby the same results are obtained; also the piece of metal (*g*) as combined with, or applied to, the seer of the trigger and in front of the notch thereof, and hook of the catch (*c*), and operating and in relation thereto in the manner and for the purpose as herein-before explained. Also, my new and peculiar arrangement of the pitman upon the seer of the trigger (so as to operate as above described, in combination with the construction and arrangement of the teeth upon the breech or rear end of the cylinder, or series of barrels, by which improvement in constructing and arranging the aforesaid parts I am enabled to very much simplify them in comparison with the manner in which they have been made and disposed."

Nathaniel Drake, of Newton, N. J., for an "Improvement in corn planters."—Patented 2nd February, 1858.—Re-issued 14th December, 1858.

"Claims.—1st, operating the seed valves *a*, *b*, from the traction wheels A, A, by means of the rods or weights G, H, and cams M, N, arranged substantially as and for the purpose set forth. 2nd, the agitator *g*, arranged with relation to the seed boxes and valves, substantially as set forth. 3rd, the rib *b*, attached to the upper valve constructed and operating as shown and described for the purpose stated. 4th, combining with one of the weights which operate the valves, or its equivalent, a cam-shaped gear wheel, corresponding in form with the cams which operate said weights. 5th, extending the chains which operate the valves down under the pulleys *d*, back of the axle so as to obviate the slackening and taking up of the chains by the vibrations of the plows D, and their attachment as set forth."

William Sumner, of Worcester, Mass., for an "Improvement in organs."—Patented 28th February, 1854.—Re-issued 14th December, 1858.

"Claims.—The combination or arrangement and connection with the keys of a mechanism which shall enable the extreme key touched on either side or hath when operating itself shall prevent all the others from operating in the stop or stops connected therewith, in the manner and for the purposes as above set forth and described. And I also claim, in combination with a wind chest, operating substantially as above described, the employment of auxiliary bellows, connected and combined with the main bellows and pedals, substantially as and for the purposes described. And I also claim controlling and operating the escape valve by means of friction on the arm or its equivalent, in the manner and for the purposes above set forth and described."

Horace H. Day, of New York, N. Y., assignee of Richard Solis, of said New York, for an "Improvement in the manufacture of elastic cloth."—Patented 7th November, 1848.—Re-issued 14th December, 1858.

"Claim.—The new elastic cloth herein described, consisting of a woven textile material (or cloth), having the threads of the warp oblique to the weft, combined with gum elastic or india rubber, so that the two constitute an elastic compound fabric."

Designs.

GARRETTSON SMITH and HENRY BROWN, of Philadelphia, Pa., assignors to Liebrandt McDowell and Co., of said Philadelphia, for a "Design for parlor stoves."

"Claim.—The combination of ornamental figures and forms, represented in and by the accompanying drawing, forming together an ornamental design for the plates of parlor stoves."

GARRETTSON SMITH and HENRY BROWN, of Philadelphia, Pa., assignors to G. Abbott and A. Lawrence, of said Philadelphia, for a "Design for cooks' ranges."

"Claim.—We claim the ornaments in bas-relief, and arrangement of mouldings, configurated as shown and described, and constituting an ornamented stove design, designated as the 'National Range.'"

WILLIAM B. FRENCH, of Charlestown, Mass., for a "Design for book-marks."

"Claim.—The new design for a book-mark, consisting of the hand placed within the heart, as described and represented in the drawings."

Additional Improvements.

LEVI BURNELL, of Milwaukie, Wis., for an "Improvement in rotary pumps." — Patented 31st August, 1858.—Additional Improvement, dated 14th December, 1858.

"Claim.—Operating three or more pairs of sliding valves in said pump by means of the joint action of the rotary valve-box *b*, and the three-sided stationary cam *f*, substantially as herein set forth."

DALRYMPLE CRAWFORD, of Toronto, Canada, for an "Improvement in the manufacture of soap."—Patented 13th March, 1858.—Additional Improvement, dated 14th December, 1858.

"Claims.—Using the refuse of Indian corn, and mixing it with a fat or oil and an alkali, and with or without resin amalgamating the same to make soap. I claim subjecting the refuse of Indian corn to an alkali with or without heat, and modifying the strength of the alkali, when too strong and not required, by an acid, and for the purpose of mixing it more easily with the soap."

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No. 523. FRIDAY, JANUARY 7, 1858. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2154. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "The separation of iron and steel from their combination with certain foreign bodies."—A communication from a Foreigner, residing at Charleroi, in Belgium.

On his petition, recorded in the Office of the Commissioners on the 25th day of September, 1858.

2506. To MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "Improvements in, and in the manufacture of locks and fastenings, and keys for the same."—A communication from Mr. Rebour.

On his petition, recorded in the Office of the Commissioners on the 9th day of November, 1858.

2804. To JOHN VICKERS SCARBOROUGH, of Belfast, in the county of Antrim, Ireland, Gutta Percha Boot Manufacturer, for the invention of "Improvements in apparatus for the manufacture of boots and shoes."

On his petition, recorded in the Office of the Commissioners on the 7th day of December, 1858.

2830. To ETIENNE LÉON PENSUETE, of Dunkirk' in the empire of France, for the invention of "Improvements in apparatus for driving or for drawing up piles by steam."

On his petition, recorded in the Office of the Commissioners on the 9th day of December, 1858.

913. To ROBERT MCLEAN LIVINGSTON, of the state of Alabama, in the United States of America, at present residing in Manchester, in the county of Lancaster, Vice-Consul, for the invention of "An improved self-detaching 'safety hook' or coupling."

2915. To JOSEPH HOLROYD BOLTON, of Dukinfield, in the county of Chester, Warp Dresser, and CHARLES GARFORTH, of the same place, Engineer, for the invention of "Certain improvements in drying yarns or fabrics, and in the apparatus connected therewith."

2917. To WILLIAM SPEAKMAN YATES, of Leeds, in the county of York, Brush Maker, for the invention of "Machinery or apparatus for dragging bristles and drawing air and vegetable fibre."

2919. And to WILLIAM MAINWARING, of Brunfield, in the county of Hereford, Surveyor, for the invention of "Improvements in brakes for common road vehicles."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of December, 1858.

2921. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement or improvements in the manufacture of cast steel."

2923. To JOSEPH NICHOLSON, of Halifax, in the county of York, Jacquard Machine Maker, and DAVID CROSSLEY, of Brighouse, in the same county, Joiner and Pattern Maker, for the invention of "Improvements in Jacquard machinery or apparatus employed in weaving."

2925. To WILLIAM SPENCE, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in granaries or apparatus for preserving grain."—A communication from Charles Joseph Emile Pavy, of Girardet, Indre et Loire, in the empire of France, Farmer and Landowner.

2927. To EDWARD GREEN, of Wakefield, in the county of York, Engineer, for the invention of "Improvements in tables."

2929. To Frederick Ransome, of Ipswich, for the invention of "Improvements in the manufacture of grinding and rubbing surfaces."

2931. And to Joseph James Welch, of 17, Cheapside, in the city of London, for the invention of "Improvements in the manufacture of neckties, scarfs, or cravats."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of December, 1858.

2933. To James Ronald, of Liverpool, in the county of Lancaster, Merchant, for the invention of "Improvements in, and machinery for, the manufacture of 'hard-tapped' and 'soft laid' twine, 'mill banding' strands for ropes and other purposes, and cordage generally from hemp, flax, cotton, and other like fibrous material."

2935. To James Broom, of Glasgow, in the county of Lanark, North Britain, Iron Manufacturer, for the invention of "Improvements in the manufacture of steel."

2937. And to Andrew Barclay, of Kilmarnock, in the county of Ayr, North Britain, Engineer, for the invention of "Improvements in obtaining and distributing or applying electricity and magnetism, and in obtaining motive power therefrom."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of December, 1858.

2939. To James Thomas Peter Newbon and Thomas Smith, of Fenchurch Street, Naval Architects, and James Brown, of Follit Street, Engineer, for the invention of "Improvements in machinery or apparatus for raising and lowering or otherwise moving heavy weights."

2491. To John Wright Child, of Halifax, in the county of York, Engineer, for the invention of "Improvements in the manufacture of fabrics adapted to be used for curtains, coverings of furniture, table covers, and such like uses."

2943. To Lemuel Dow Owen, of No. 192, Tottenham Court Road, in the county of Middlesex, Engineer, for the invention of "Improvements in manufacturing horse shoe nails."—A communication.

2945. To Dickinson Edleston, of Halifax, in the county of York, Dyer and Finisher, for the invention of "Improvements in preparing and finishing textile fabrics, and in the means or apparatus employed therein."

2947. To Edward Humphrys, of Deptford, for the invention of "Improvements in brazing metal tubes in tube plates and other metal surfaces to each other."

2949. To John Little, of Glasgow, in the county of Lanark, North Britain, Ironmonger, for the invention of "Improvements in lamps."

2951. And to Rafaello Louis Giandonati, of the firm of Dodge and Giandonati, of St. Paul's Churchyard, in the city of London, Merchants, for the invention of "Improvements in ornamenting leather cloth."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of December, 1858.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given that the petition of

26. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, praying for Letters Patent for the invention of "Certain improvements in steam generators,"—a communication,—was deposited and recorded in the Office of the Commissioners on the 3rd day of January, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

5th January, 1859.

1508. George John Newbery, of Straitsmouth, Greenwich, in the county of Kent, Artist, for an invention of "Improvements in the manufacture or production of coverings for floors applicable also to the manufacture of table mats and other articles or coverings."—Dated 5th July, 1858.

1510. Thomas Woolner, of Blue Pits, in the county of Lancaster, Manufacturer, for an invention of "Improvements in apparatus for feeding steam boilers with water."—Dated 5th July, 1858.

1515. Hesketh Hughes, of Homerton, in the county of Middlesex, Engineer, for an invention of "Improvements in gauffering and crimping machines, parts of which are applicable to the manufacture of continuous belts and shutters."—Dated 6th July, 1858.

1517. James Davis, Iron Master, and Thomas Evans, Engine Fitter, both of Ulverston, in the county of Lancaster, for an invention of "Improvements in engines to be actuated by steam, air, or gases."—Dated 6th July, 1858.

1518. John Buchanan, of Port Glasgow, in the county of Renfrew, North Britain, Gentleman, for an invention of "Improvements in propelling ships, vessels, and boats."—Dated 6th July, 1858.

7th January.

1519. William Allen Smith, Engineer, of Belper, in the county of Derby, for an invention of "Improvements in machines for making bricks, tiles, or pipes of clay."—Dated 7th July, 1858.

1520. Henry Carl Schiller, of London, in the county of Middlesex, for an invention of "Certain improved apparatus for laying down and recovering submarine telegraphic cables."—Dated 7th July 1858.

1524. William Clissold, of Dudbridge, in the county of Gloucester, Engineer, for an invention of "Improved machinery for cutting or rasping dyewoods."—Dated 7th July, 1858.

1531. John Marland, of Glodwick, near Oldham, in the county of Lancaster, and James Widdall, of Abbey Hill, in the said county, for an invention of "An improved self-acting hook or holder to prevent accidents in lifting, hoisting, or winding at coal pits or other similar purposes."—Dated 8th July, 1858.

1532. Henry Gidlow, of Atherton, in the county of Lancaster, Carpenter, for an invention of "Improvements in breaks for steam engines."—Dated 8th July, 1858.

1534. Pierre François Demoulin, Chemist, and Joseph Cotelle, Manufacturer, of Paris (France), for an invention of "Improvements in treating the heavy oils obtained from the distillation of coals, schists, and other hydro-carbons."—Dated 8th July, 1858.

1535. Thomas Tertius Chellingworth, of West Bromwich, in the county of Stafford, Civil and Mechanical Engineer, for an invention of "A high-pressure steam engine."—Dated 8th July, 1858.

1537. Richard Smith, of the firm of Earl, Smith, and Company, Manufacturers, of Hallamshire Works, Pond Street, Sheffield, in the county of York, for an invention of "An improved adjustable pipe tongs."—A communication from a Foreigner residing abroad.—Dated 8th July, 1858.

1541. Robert George Cecil Fane, of Upper Brook Street, in the county of Middlesex, Esquire, for an invention of "Improvements in treating sewage, and in apparatuses to be employed therein."—Dated 8th July, 1858.

1543. George Collier, of Halifax, in the county of York, for an invention of "Improvements in means or apparatus for the drying of wool and other fibres."—Dated 8th July, 1858.

1546. George Parsons, Mechanical Engineer, and Machine Manufacturer, conducting business at No. 50, High Street, Lambeth, in the county of Surrey, for an invention of "Improvements in apparatus for the prevention of injury to, and the sudden bursting of, steam boilers."—Dated 9th July, 1858.

1548. Frederick Sang, of 42, Charing Cross, Artist, and Thomas Webster Rammell, of 16, Spring Gardens, both in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the means of conveying letters and parcels from one place to another."—Dated 9th July, 1858.

1549. Constantine Nicolaus Kottula, of Liverpool, in the county of Lancaster, Soap Manufacturer, for an invention of "Improvements in the manufacture of manure."—Dated 9th July, 1858.

1551. John Martin Rowan, of Glasgow, in the county of Lanark, Engineer, for an invention of "Improvements in manufacturing wrought-iron wheels and bosses or centres, and in the mode of, and furnaces for, heating the same during such manufacture."—Dated 9th July, 1858.

1554. George Henry Wain, of Liverpool, in the county of Lancaster, Block Maker, for an invention of "Improvements in reefing and furling sails."—Dated 10th July, 1858.

1588. Thomas Wheeler, of the Albion Iron Works, in the city of Oxford, Engineer, for an invention of "Improvements in washing, wringing, and mangling machines."—Dated 14th July, 1858.

1608. Astley Paston Price, of Margate, in the county of Kent, Chemist, for an invention of "Improvements in the treatment and smelting of certain ores or compounds of tin, and of tin and of certain alloys thereof."—Dated 16th July, 1858.

1622. Henry Smith, of Brierley Hill Iron Works, near Dudley, in the county of Worcester, Manufacturer, for an invention of "An improvement or improvements in the manufacture of harrows."—Dated 19th July, 1858.

1635. John Cartwright Hill, of Kentish Town, in the county of Middlesex, for an invention of "Improvements in making joints for connecting pipes and other articles by means of lead or other soft metal."—Dated 20th July, 1858.

1674. Daniel Adamson, of Newton Moor Iron Works, Hyde, in the county of Chester, Engineer, for an invention of "Improvements in hydraulic apparatus for raising and lowering heavy articles, and in an application of hydraulic power for riveting metallic structures, as iron ships, boilers, tanks, and similar articles."—Dated 26th July, 1858.

1690. John Scott, of Tain, in the county of Ross, North Britain, Gentleman, for an invention of "Improvements in pumps, which improvements are also applicable for the propulsion of ships, vessels, and boats."—Dated 27th July, 1858.

1756. Thomas Greenhalgh, of Bury, in the county of Lancaster, Manufacturer, for an invention of "Improvements in apparatus applicable to steam boilers."—Dated 3rd August, 1858.

1782. John Henderson, of Lasswade, in the county of Mid-Lothian, North Britain, Gentleman, for an invention of "Improvements in machinery for weaving plain or figured fabrics."—Dated 5th August, 1858.

1809. Thomas Ingram, of Bradford, in the county of York, Foreman, or an invention of "Improvements in means or apparatus for operating railway breaks."—Dated 9th August, 1858.

1825. Samuel Fletcher Cottam, of the city of Manchester, Machinist, for an invention of "Improvements in machinery for doubling cotton and other yarns or threads."—Dated 11th August, 1858.

2000. Elias Cocker, of Newton Heath, near Manchester, in the county of Lancaster, Mill Manager, for an invention of "An improvement or improvements in machinery for spinning, twisting, or doubling cotton, flax, silk, wool, or other fibrous materials."—Dated 3rd September, 1858.

2050. Joseph Lemuel Chester, of the city of Philadelphia, state of Pennsylvania, one of the United States of America, for an invention of "Improvements in self-priming apparatus for fire-arms, and in the preparation of percussion primers to be used therewith."—Partly a communication from a Foreigner residing in the United States of America.—Dated 10th September, 1858.

2080. William Riley, of Bradford, in the county of Yorkshire, Overlooker, for an invention of "Certain improvements in looms."—Dated 14th September, 1858.

2350. Charles Wye Williams, of Liverpool, Gentleman, and George Eyton, of the same town, in the county of Lancaster, Chemist, for an invention of "Improvements in the construction of locomotive and other steam boilers."—Dated 21st October, 1858.

2430. Charles Vero, of Atherstone, in the county of Warwick, Hat Manufacturer, and James Everitt, of Atherstone aforesaid, Hat Manufacturer, for an invention of "Improvements in the manufacture of hats and other coverings for the head, a part of which improvements is also applicable to the manufacture of felt."—Dated 1st November, 1858.

2449. Nathaniel Shattswell Dodge, of 44, St. Pauls Church Yard, in the city of London, Merchant and Manufacturer, for an invention of "Improvements in treating waste vulcanized india rubber."—A communication from a Foreigner resident abroad.—Dated 2nd November, 1858.

2549. David Auld, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in furnaces and boilers, and in the generation and treatment of steam."—Dated 13th November, 1858.

2579. Frederick Albert Gatty, of Accrington, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in producing certain colors on cotton, linen, and silk fabrics."—Dated 17th November, 1858.

2581. Matthew Andrew Muir, of Glasgow, in the county of Lanark, North Britain, Machinist, and James McIlwham, of the same place, Machinist, for an invention of "Improvements in looms for weaving."—Dated 17th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 5th January, 1859, inclusive.*)

3rd January.

44. Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London, for an invention of "Improvements in the manufacture of iron and steel."—Dated 4th January, 1856.

71. John Ashworth, junior, of Turton, in the county of Lancaster, Cotton Spinner, for an invention of "Certain improvements in lap machines or apparatus used in the preparation of cotton and other fibrous substances for spinning."—Dated 9th January, 1856.

4th January.

86. William Pole, of Storey's Gate, in the city of Westminster, Engineer, and Frederick William Kitson, of Leeds, in the county of York, Engineer, for an invention of "Improvements in railway wheels."—Dated 11th January, 1856.

108. Joseph Hostage, Thomas Ives Brayne Hostage, and John Tatlock, of the city of Chester, in the county of Chester, for an invention of "Improvements in railway chairs."—Dated 15th January, 1856.

5th January.

55. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in machinery for boring and excavating."—A communication.—Dated 7th January, 1856.

Erratum in Journal of 31st December, 1858.

2870. For "metalic" read "metallic."

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As set forth in their petition, recorded in the said office on the 28th day of August, 1858.

1963. And JOHN OXLEY, of Camden Town, has given the like notice in respect of the invention of "Improvements in baths."

As set forth in his petition, recorded in the said office on the 30th day of August, 1858.

1975. And JAMES STONEHAM, of Audenshaw, near Manchester, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in cleaning and treating cotton and woollen waste, or other fibrous materials, and in extracting oil or grease therefrom."

As set forth in his petition, recorded in the said office on the 31st day of August, 1858.

1984. And WILLIAM HOBBS, of No. 196, Piccadilly, in the county of Middlesex, Shop Fitter, has given the like notice in respect of the invention of "Improvements in ordnance and warlike projectiles to be used therewith."

1991. And SAMUEL LAING, of Millwall, Engineer, has given the like notice in respect of the invention of "Improvements in the apparatus employed in the manufacture of gas."

As set forth in their respective petitions, both recorded in the said office on the 1st day of September, 1858.

1994. And JAMES BLEAKLEY, of Accrington, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in apparatus for communicating between the guard and engine-driver of railway trains."

As set forth in his petition, recorded in the said office on the 2nd day of September, 1858.

1999. And WILLIAM HARKES, of Lostock Gralam, in the county of Chester, Agricultural Implement Maker, has given the like notice in respect of the invention of "An improved plough and pulverizer."

As set forth in his petition, recorded in the said office on the 3rd day of September, 1858.

2010. And HIRAM HYDE, of Truro, Nova Scotia, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of carriage springs."—A communication.

As set forth in his petition, recorded in the said office on the 4th day of September, 1858.

2016. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "Improvements in printing or marking words or figures on papers, parcels, books, pages, tickets, and other articles requiring to be marked, printed, stamped, or addressed."—A communication.

As set forth in his petition, recorded in the said office on the 6th day of September, 1858.

2020. And JAMES FYFE, of Greenock, in the county of Renfrew, North Britain, Brass Founder, has given the like notice in respect of the invention of "Improvements in stop cocks or valves."

2024. And FREDERICK WILLIAM BRIND, of No. 14, Devonshire Street, Bishopsgate, in the city of London, Wine Merchant, has given the like notice in respect of the invention of "Improvements in sewing machines."—A communication.

2026. And Louis Pellissier, Mechanician, and Jean Puytorac, Bailiff, both of Bordeaux (France), have given the like notice in respect of the invention of "Improvements in railway breaks."
As set forth in their respective petitions, all recorded in the said office on the 7th day of September, 1858.

2027. And Bartholomew Hockin, of Gateshead Iron Works, Gateshead-on-Tyne, has given the like notice in respect of the invention of "Apparatus for repairing and fitting dock gates and their machinery."

2031. And Andrew Lamb, of Southampton, and John White, of Cowes, have given the like notice in respect of the invention of "Improvements in life boats."

2035. And Jean Ulrich Faessler-Petzi, of Lyons, in the empire of France, Merchant, has given the like notice in respect of the invention of "An improved process for the boiling off of tussah silks or wild silks."
As set forth in their several petitions, all recorded in the said office on the 8th day of September, 1858.

2052. And John Knowles, of Bolton-le-Moors, in the county of Lancaster, Cotton Spinner, has given the like notice in respect of the invention of "Certain improvements in machinery for preparing cotton and other fibrous materials."
As set forth in his petition, recorded in the said office on the 10th day of September, 1858.

2064. And John Minton Courtauld, of the firm of Samuel Courtauld and Company, of Braintree, in the county of Essex, Crape Manufacturers, has given the like notice in respect of the invention of "An improvement in clearing and preparing silk crapes, aerophanes, and other like fabrics, lisses, and other gauzes and lace, and in machinery employed therein."
As set forth in his petition, recorded in the said office on the 11th day of September, 1858.

2089. And the Honourable William Erskine Cochrane, of Osnaburgh Terrace, Regent's Park, in the county of Middlesex, has given the like notice in respect of the invention of "An improvement in the fastenings of railways."
As set forth in his petition, recorded in the said office on the 14th day of September, 1858.

2109. And Archibald Turner, of Leicester, Manufacturer, has given the like notice in respect of the invention of "Improvements in looms for weaving."
As set forth in his petition, recorded in the said office on the 18th day of September, 1858.

2222. And James Ridsdale, of Stoke Newington, in the county of Middlesex, Accountant, has given the like notice in respect of the invention of "An improved reservoir or fountain pen."
As set forth in his petition, recorded in the said office on the 6th day of October, 1858.

2256. And James Holroyd, of Leeds, in the county of York, Cloth Dresser, has given the like notice in respect of the invention of "An improvement in the knives used for shearing woollen cloths and cloths made of wool and other materials."
As set forth in his petition, recorded in the said office on the 11th day of October, 1858.

2312. And Joseph Pierre Gillard, of Paris, France, Civil Engineer, has given the like notice in respect of the invention of "Improvements in generating hydrogen, and in the means of, and apparatus for, applying the same to lighting and heating purposes."
As set forth in his petition, recorded in the said office on the 16th day of October, 1858.

2362. And Alexander Shaw, of the Earle's Field Works, Grantham, in the county of Lincoln, Leather Dresser and Fellmonger, and Glue and Parchment Manufacturer, has given the like notice in respect of the invention of "A new method or mode of raising nap on the linings of sheep skins."
As set forth in his petition, recorded in the said office on the 22nd day of October, 1858.

2381. And George Kent, of High Holborn, in the county of Middlesex, Machinist, has given the like notice in respect of the invention of "An improved churn.'—A communication.
As set forth in his petition, recorded in the said office on the 25th day of October, 1858.

2589. And Edmund Mellor, of Rochdale, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in mules and other machinery for spinning cotton and other fibrous substances, whereby the cop will be built much firmer, and prevent snarles in the yarn."
As set forth in his petition, recorded in the said office on the 17th day of November, 1858.

2612. And William Stephens Hayward, of Wittenham House, Abingdon, in the county of Berkshire, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of a glutinous and viscous substance or dextrine, to be used in the manufacture of paper, and in dressing textile fabrics, by which greater tenaciousness, smoothness of surface, and body is obtained."
As set forth in his petition, recorded in the said office on the 19th day of November, 1858.

2791. And George Snell, of Leeds, in the county of York, Cloth Finisher, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cutting woollen fabrics."
As set forth in his petition, recorded in the said office on the 6th day of December, 1858.

2815. And Andrew Lamb and William Alltoft Summers, both of Southampton, in the county of Hants, Engineers, have given the like notice in respect of the invention of "Improved arrangements of apparatus for superheating steam."
As set forth in their petition, recorded in the said office on the 8th day of December, 1858.

2848. And William Edward Wiley, Pen and Pencil Manufacturer, of 34, Great Hampton Street, Birmingham, has given the like notice in respect of the invention of "Improvements in everpointed pencils."

As set forth in his petition, recorded in the said office on the 11th day of December, 1858.

2862. And Joseph Wade, of Bradford, in the county of York, Manufacturer, has given the like notice in respect of the invention of "Improvements in means or apparatus employed in weaving."

As set forth in his petition, recorded in the said office on the 14th day of December, 1858.

2883. And Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "A new or improved manufacture of cast steel."

As set forth in his petition, recorded in the said office on the 16th day of December, 1858.

2892. And James Jones Aston, of 41, Doughty Street, in the county of Middlesex, and of the Middle Temple, Barrister-at-Law, has given the like notice in respect of the invention of "Improvements in machinery or propellers applicable for the propulsion of ships, boats, and other vessels, on and through the water, and in the propelling of all such vessels on and through the water by means of such propellers."

2897. And James Clegg, of Keighley, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in lubricating the valves and pistons of steam engines."

As set forth in their respective petitions, both recorded in the said office on the 17th day of December, 1858.

2921. And Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of cast steel."

As set forth in his petition, recorded in the said office on the 22nd day of December, 1858.

2935. And James Broom, of Glasgow, in the county of Lanark, North Britain, Iron Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of steel."

As set forth in his petition, recorded in the said office on the 23rd day of December, 1858.

2941. And John Wright Child, of Halifax, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of fabrics adapted to be used for curtains, coverings of furniture, table covers, and such like uses."

As set forth in his petition, recorded in the said office on the 24th day of December, 1858.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

11th January, 1859.

1563. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for an invention of "Certain new or improved machinery for the manufacture of wire heddles."—A communication from a Foreigner residing abroad.—Dated 12th July, 1858.

1567. Thomas Earnshaw, of Cambridge Terrace, Thornton Heath, Croydon, in the county of Surrey, for an invention of "Improvements in the manufacture of night lights."—Dated 12th July, 1858.

1572. John Edwards, of 77, Aldermanbury, London, and Thomas Newey, of 70, Navigation Street, Birmingham, for an invention of "Improvements in the manufacture of blind furniture."—Dated 13th July, 1858.

1573. James John Field, of Paddington, in the county of Middlesex, Chemist, for an invention of "A new method of supporting and carrying telegraph wires, ropes, and cables."—Dated 13th July, 1858.

1585. Edward Owen, of Blackheath, in the county of Kent, Chemist, for an invention of "Improvements in distilling."—Dated 14th July, 1858.

1591. John Fowler, junior, of 28, Cornhill, in the city of London, Engineer, for an invention of "Improvements in apparatus used when ploughing, tilling, or cultivating land by steam power."—Dated 14th July, 1858.

1595. Christopher Penrhyn Aston, of Cross Street, in the county of Middlesex, Gun Maker, for an invention of "Improvements in breech-loading arms."—Dated 15th July, 1858.

1607. Peter Arkell, of North Woolwich, in the county of Kent, Engineer, and Alfred Melhado, of Queen's Gardens, Bayswater, in the county of Middlesex, Gentleman, for an invention of "Improvements in the submerging of telegraph cables."—Dated 16th July, 1858.

1611. William Anthony Burlton Bennett, of 13, Rue Tant Perd Tant Prie, Boulogne, in the empire of France, for an invention of "Improvements in military capes or cloaks."—Dated 16th July, 1858.

1637. Charles Doley, of Birmingham, in the county of Warwick, Manufacturer, and Edwin Bigland, of Smethwick, in the county of Stafford, Designer and Glass Painter, and Thomas

HENRY WORRALL, of Smethwick aforesaid, Lithographer, for an invention of "Improvements in ornamenting metallic and non-metallic surfaces."—Dated 20th July, 1858.

1649. JOHN WHEATLEY GILES, of St. Martin's-le-Grand, in the county of Middlesex, for an invention of "Improvements in locomotive or traction engines."—Dated 21st July, 1858.

1655. WILLIAM LYNALL THOMAS, of Union Street, Berkeley Square, in the county of Middlesex, Esquire, for an invention of "Improvements in ordnance fire-arms and apparatus generally in which gunpowder is employed."—Dated 22nd July, 1858.

1739. EDWARD JOHN MICHAEL CETTI, of Brook Street, in the county of Middlesex, Mathematical Instrument Maker, for an invention of "An improvement in barometers, gauges, and other analogous instruments."—Dated 31st July, 1858.

1775. LAWRENCE HALL, of Black Lane Mill, near Bury, in the county of Lancaster, Manufacturer, for an invention of "Certain improvements in looms for weaving."—Dated 5th August, 1858.

1805. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in apparatus for working railway breaks."—A communication from Thomas Hopper, of the city of Newark, county of Essex and state of New Jersey, United States of America.—Dated 7th August, 1858.

1869. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Certain improvements in machinery for forging horse-shoes."—Dated 16th August, 1858.

2141. JOHN WILSON, of 55, John Street, Sunderland, for an invention of "Improvements in floating docks."—Dated 23rd September, 1858.

2605. JOHN OAKES, of Exeter Row, Birmingham, in the county of Warwick, Spur Manufacturer, for an invention of "Improvements in the manufacture of spurs."—Dated 18th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 8th January*, 1859, *inclusive.*)

6th January.

53. SAMUEL CUNLIFFE LISTER and WILLIAM TONGUE, both of Bradford, in the county of York, for an invention of "Improvements in machinery for combing wool, cotton, and other fibrous materials."—Dated 7th January, 1856.

8th January.

77. MARTIN BILLING, of Birmingham, in the county of Warwick, Stationer, and FREDERICK AUGUSTUS HARWOOD, of Birmingham aforesaid, Machinist, for an invention of "New or improved machinery for the manufacture of paper bags."—Dated 10th January, 1856.

116. JOHN ABRAHAM, of Birmingham, in the county of Warwick, Machinist, for an invention of "New or improved machinery for the manufacture of percussion caps, and for cutting out and raising articles in metal generally."—Dated 16th January, 1856.

117. JOHN HAMILTON, junior, of Liverpool, for an invention of "Improvements in the posts or uprights employed in constructing electric telegraphs."—Dated 16th January, 1856.

Errata.

In Journal of 31st December, 1858.

2873. For "Bullouga" read "Bullough."

In Journal of 7th January, 1859.

2919. For "Brunfield" read "Brimfield."

After 2939, for "2491" read "2941."

Free Patent Museum and Library, South Kensington.

NUMBERS of VISITORS for the Week ending 8th January, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Jan. 3	Monday -	184	398	582
„ 4	Tuesday -	165	358	523
„ 5	Wednesday	81	87	168
„ 6	Thursday -	109	—	109
„ 7	Friday -	132	—	132
„ 8	Saturday -	171	—	171
	Total	842	843	1685

Total number of visitors since the period of free daily admission (12th May, 1853) to 8th January, 1859, —56,289.

This Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 21st December, 1858, and each bearing that date.

No. 22,337. Wilson Ager, of Rohrsburgh, Pa., for an "Improvement in the mode of cleaning rice."

"I am aware that air has been injected into masses of grain by perforation tubes and otherwise for the purpose of cooling the grain and preventing fermentation: to such I make no claim; but what I do claim as new and of my own invention, and desire to secure by Letters Patent as an improvement in the mode of cleaning rice, is, the forcing of a current of air into or through the grain during the cleaning operation, for the purpose above set forth."

No. 22,338. Horace L. Arnold, of Eek Horn, Wis., for an "Improvement in cars seats and couches."

"What I claim as new, and desire to secure by Letters Patent is, 1st, jointing the ends of the seats next the sides of the car to a stud or bolt B, so as to enable them to be arranged at right angles to the sides of the car, or to be swung round or turned to a diagonal position, and to thus occupy the spaces between them longitudinally, and increase the width of the passage way, and thus admit of their elongation to convert them into distinct sleeping berths or couches, as set forth. 2nd, I claim the combination of the slotted bar F, eccentric lever clamp H, and plates I, K, with lips or raised edges, for firmly fastening the seats in the required position to answer their designs, as before described. 3rd, I also claim the combination of the slides O, or their equivalents, and the T-shaped bars M, M^1, for sustaining the backs N of the seats in an inverted position, and bolts or slides S for securing the backs in their said inverted position, as described."

No. 22,339. John Badger, of Baileyville, Ill., for an "Improvement in seeding machines."

"I do not claim, separately, any of the parts herein described, for they have all been used under different forms of arrangements, and in combination with other parts; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the circular plates I, and stirrers *h*, attached to the rotating shaft F^1 within the seed box C, arranged and combined with the slotted bottom D and slide E, substantially as and for the purpose set forth."

No. 22,340. Thomas D. Bailey, of Lowell, Mass., for an "Improvement in pegging jacks."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, I claim the method of jacking the last by turning the plate to which the last is fastened. 2nd, I claim the combination of the lever H, screw F, and turntable T, for jacking the last, substantially as described. 3rd, I claim fastening the screw F^1, or its equivalent, stationary, by means of the coupling pin L^1, and plate I, so that when the turntable T is revolved it shall operate the lever and jack the last, substantially as described. 4th, I claim fastening the screw E, or its equivalent, to the turntable T after the last has been jacked, by means of the coupling wheel L and pin R, operated by the thumb latch O and spring P, for the purpose of preventing the screw F from turning round and loosening the lever H, substantially as described. 5th, I claim the combination of the two hinges S, S^1, cam levers U, U^1, hinge seat B, the link C, and hand-set screw W, for the purpose and substantially as described."

No. 22,341. J. A. Barrington, of Fredericktown, Ohio, for an "Improvement in harvesters."

"What I claim, and desire to secure by Letters Patent, is, the combination of the bell crank C^1, and guide piece G, with the crane C, rod *r*, connecting the crank arm *h* with the rakes, and the crank shaft *f* giving motion to the system, the operation being substantially as described. I also claim connecting the entire raking mechanism with the vibrating frame F, substantially as and for the purposes set forth."

No. 22,342. R. W. Belson, of Philadelphia, Pa., for an "Improvement in stoves."

"Claim:—I am aware that an annular chamber with air jets above a fire for consuming gases is an old and well-known device, and I therefore limit my claim to the improvement above described, to wit, the combination of the air chamber *a*, surrounding the base of the fire pot, with the annular chamber *f* at the upper part of the fire pot, as described. I also claim the jet pipe *h* in combination with the annular chamber *a* and escape pipe *i*, as described. I also claim the adjustable heater *r*, constructed, arranged, and operating over the fire, substantially as herein described."

No. 22,343. C. A. Bremner, of Goshen, N. Y., for an "Improvement in composition for roofing."

"What I claim as new in the above composition, and desire to secure by Letters Patent, is, the composition consisting of marl and the other substances herein specified, combined and compounded in about the proportions and in the manner substantially as herein set forth."

No. 22,344. John Broughton, of New York, N. Y., for an "Improved cut-off gear for steam-engines."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the combination of the two rock shafts H, H, their arms N, N, the vibrating links O, O, the rods L, L, and the lifters M, M, the whole applied substantially as described, to operate upon a tappet or tappets on the valve stem E, or its equivalent, for the purpose of lifting the valve, and subsequently tripping it by the continued and inherent motion of the lifters. 2nd, in combination with the above-specified lifting and tripping mechanism, I claim the combination of the pendulous rods R, R, the toggle links S, S, and the slide T, or their equivalents, connecting with a governor or other means of adjusting the same to vary the positions of the centers of motion *c*, *c*, substantially as described, for the purpose of varying the point of cutting off the steam."

No. 22,345. Chester Bullock, of Jamestown, N. Y., for an "Improvement in harvesters."

"What I claim as my invention, and for which I desire Letters Patent, is, attaching the vibrating cutter to the vibrating bar and fingers, as described."

No. 22,346. Mortimer M. Camp, of New Haven, Conn., for an "Improved propeller for life-boats."

"I am aware that submarine boats and diving bells have been so arranged as to be propelled by a single occupant, and I do not therefore claim my invention for the propulsion of either of those articles, as it is only practically applicable to life-saving boats, as herein described; nor do I claim its application to the life-boat shown, for my invention is applicable to any description of inclosed life-boat, however constructed; but what I do claim as my invention, and desire to secure by Letters Patent, is, the method of propelling inclosed life-boats by the application of the power of the occupants of the boat, as herein set forth."

No. 22,347. E. G. Chormann, of Philadelphia, Pa., for an "Improved ellipsograph."

"Having fully described the construction and operation of my improved instrument, and disclaiming the broad feature of changing the relative position of the shoes or pins which run in the slots of the plate, or the changing of the distance of the pencil or graver carrier from the foci, what I do claim, and desire to secure by Letters Patent, is,—1st, constructing the shoes *i* and i^1 in two parts swiveled together, as specified, in combination with the adjusting screw shaft d^1, the whole arranged and operating as described. 2nd, in combination with the screw adjustment of the movable shoe, the arrangement of the pencil or dry point carrier *f* on a screw shaft *c*, in order that the relative lengths of the axes may be readily varied to the smallest extent, or a series of concentric ellipses be drawn varying very slightly in size. 3rd, arranging the drawing apparatus with a vibrating adjustable arm D on a vertically adjustable arm B^1, as herein described, for the purpose set forth."

No. 22,348. E. Claude, of New York, N. Y., for an "Improvement in breech-loading revolving fire-arm."

"I do not claim of itself extending the chambers through the cylinder, nor the attachment of the barrel to an exterior pin A, separately considered; but what I do claim as new, and of my own invention, and desire to secure by Letters Patent, is, making the arm U between the barrel and exterior shaft, the bearing for the cylinder by a shaft on the forward end of the cylinder passing through and secured to the arm substantially, as described, when the said parts are combined with breech-piece and stock, so that the cylinder is rotated and stopped and the discharge effected, substantially as herein-before set forth."

No. 22,349. Henry T. Clawson, of New Berne, N. C., for an "Improved pepper cruet."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, placing within the perforated top or cap B of a pepper cruet or box A, a rotating or reciprocating partially rotating brush C, arranged substantially as and for the purpose set forth."

No. 22,350. Henry T. Clay, of Gardiner, Me., for an "Improvement in shingles."

"Claim:—What I claim as my invention, and for which I ask an exclusive right, is, 1st, a shingle of uniform thickness at the butt, so far as it is to be laid to the weather. 2nd, a shingle that commences to taper at the point on the upper side, where the next layer above covers it, and tapers all on that side."

No. 22,351. P. H. Cotton, of Demopolis, Ala., for an "Improvement in preserve cans."

"What I claim as my invention, and desire to secure by Letters Patent, is, in combination with the channel *c*, outside of the neck of the can, the employment of a recess *e* in the neck, and the extension of the rim of the cap over such recess, substantially as and for the purpose specified."

No. 22,352. John Cumberland, of Mobile, Ala., and James R. McClintock, of New York, N.Y., for an "Improvement in buckles."

"We claim as our invention the buckle or clasp composed of the parts A and B, or their equivalents, substantially as described, and for the purposes described."

No. 22,353. Felix Daunoy, of Carrollton, La., for an "Improvement in bagasse furnaces."

"What I claim as new, and desire to secure by Letters Patent, is, the construction of bagasse furnaces, having the exit flue F located in the interior of the furnace, with the openings K to admit the gass from combustion, when in combination with the wood or coal chamber, having a skeleton crown and the grates B, on which the bagasse is consumed, when made and arranged substantially as and for the purpose set forth."

No. 22,354. Richard De Charms, of Philadelphia, Pa., for an "Improved carpet fastener."

"What I claim as my invention, and desire to secure by Letters Patent, is, the within-described new article of manufacture, to wit, an eyeletted carpet or floor-cover binding, for the purposes set forth."

No. 22,355. Alexander Douglas and Samuel S. Sherwood, of New York, N. Y., for an "Improved slide and fastening for skirt hoops."

"We are aware that a slide and fastening for skirt hoops has been made of a single piece of metal, so as to embrace and fasten to the end of the hoop, while a part of the hoop near the other end was permitted to slide through it, or, in other words, through a loop which formed a part of it, the attachment to the hoop being formed of loops folding in one direction from a central piece upon the end of the hoop, and the slide or loop for the hoop to slide in being formed of loops folding form said central piece in the opposite direction, as seen in the Patent granted to R. J. Mann, June 22nd, 1858, and not in either case forming a continuous connection and junction of metal around the hoop. We are also aware that the tapes of skeleton skirts have been attached to the hoops by a clamp made by folding lips over from the ends, and punching up a longitudinal strip of the metal to hold the tapes, as shown in the Patent granted to A. Smart, August 31st, 1858. We make no claim to either of these devices. The particular improvement which constitutes our said invention, and which we claim as having been originally and first invented by us, is, the combined clamp and slide made entire of one piece, by forming the clamp of the divisions *b* and *c*, and the slide of the lips *d*, as described, the divisions *b* and *c* being entire, and connected at both ends to the plate, as shown, thus forming a continuous connection around the end of the hoop, for the purpose stated."

No. 22,356. John Fairclough, of Louisville, Ky., for an "Improvement in balancing mill-stones."

"I am aware that adjustable weights have been previously used on mill-stones, and I therefore do not claim broadly such feature; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the cylinders I within the boxes H, the former being provided with tubes *e*, having screw threads on their outer and inner surfaces, and provided with screws *g*, and the cylinders provided with projections *l*, which fit in the grooves *m*, of the boxes, as and for the purpose set forth. I also claim the plates *h*, and bottoms *j*, of the cylinders I, when screwed on the tubes *e*, and used in connection with the nuts K, substantially as and for the purpose specified."

No. 22,357. Samuel P. Francisco and William P. Dickinson, of Reading, Pa., for an "Improvement in hydrants."

"We do not claim the application and use of a piston and cylinder in connection with a hydrant or fire-plug, nor do we confine ourselves to the precise details herein-before set forth, so long as the peculiar character of our invention is retained, as the same may be varied; but what we claim, and desire to secure by Letters Patent, is, the providing said cylinder and piston with suitable openings for the admission of the air, and for the purposes set forth."

No. 22,358. Samuel Friend and George Seiler, of New York, N. Y., for an "Extension finger-ring."

"Having thus described our said invention, we would remark that the advantages of the same will be apparent, for by this simple arrangement a ring is adapted to the fingers of different sizes, so as to include three or four sizes, and by springing in passing the knuckle will hold firmly on to the finger; what we claim as our invention, and desire to secure by Letters Patent, is, the combination of the spring ring and folding bars, substantially as and for the purposes specified."

No. 22,359. Philip C. Fritz, of Barrytown, N. Y., for an "Improvement in machines for separating garlic from grain."

"I do not confine myself to the precise arrangement of parts herein shown and described for the purpose specified, for they may be modified in various ways; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, separating garlic from grain by passing the same between crushing rollers in the manner substantially as shown and described, that the garlic seed and kernels of grain will be crushed separately between the rollers, and the crushed grain allowed to descend into a proper receptacle, while the garlic seed, on account of the moisture or juice they contain, adhere to the rollers and are scraped therefrom."

No. 22,360. Edward M. Fuller, of Salisbury, N.Y., for an "Improvement in horse-power for driving reciprocating saws."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the connection of the saw to the main body of a horse-power which is operated by the circular movement of the animal, by extending the reciprocating rod *o*, or its equivalent, from the main body of the machine across the track of the horse to the saw in such a position as to allow the horse to pass over it, the parts being constructed, arranged, and operating substantially as and for the purposes set forth."

No. 22,361. P. W. Gates, D. R. Fraser, and Thomas Chalmers, of Chicago, Ill., for an "Improvement in cut-off gear for steam-engines."

"What we claim as our invention, and desire to secure by Letters Patent, is, the two sliding toe-pieces L, L^1, constructed as described, and applied within the rocking frame J, to operate substantially as herein described, in combination with the double lifters G, *e*, *e*, attached to the valve stem, and with a stud and roller *j*, *i*, or their equivalent, connected with a governor, or otherwise made movable."

No. 22,362. Henry Glynn, of Baltimore, Md., for an "Improvement in medicated fabrics."

"Having thus fully described the nature and object of my invention or discovery, what I claim as a new article of manu-

facture, and not heretofore introduced into the market, is, cloth or paper chemically prepared for sanatory purposes with a solution of which copper or copper and calomine are the bases, such manufactured article being designed for the prevention, or as a protection against infectious or contagious diseases, and made as herein stated."

No. 22,363. Edward K. Godfrey, of New York, N. Y., for an "Improvement in paper files."

"Having now described my invention, and its mode of operation, I will proceed to set forth what I claim, and desire to secure by Letters Patent of the United States. I am aware that the method of locking the points of the receiving and transferring hooks or wires have been used as applied to another purpose, and therefore make no claim to this feature of my improved paper and letter file; but what I do claim, and desire to secure, is, the method of securing the receiving and transferring hooks *c* and *d* to the back or steadying weight *a*, by folding and uniting their ends down the entire length of the channel or groove in the lower surface of the back, so as to prevent them from twisting and dropping the file of papers, as would be the case if the ends of the wires were simply riveted into the back."

No. 22,364. Plymon B. Green, of Chicago, Ill., for an "Improvement in seats and sleeping couches for railroad cars."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the arrangement, under the seat, of a sliding draw E, which has one portion of its top cushioned and the other portion open, in combination with the hinged back or cushion A and stationary cushions D, N, substantially as and for the purposes set forth. 2nd, in combination with the above, the arrangement of the upper couches on hinges in the peculiar manner specified, so that they can be adjusted with facility, substantially as described, and illustrated in the drawings."

No. 22,365. Theodore F. Hall, of Marietta, Ohio, for an "Improvement in hanging window sash."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment and arrangement of pulleys or friction rollers at the lower corners of sash, and the balancing of the sash on cords, in combination with pulleys and weights or a weight, substantially as above set forth."

No. 22,366. John C. Hall, of Fayette, Miss., for an "Improved manufacture of portable fans."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the fan as a new article of manufacture when constructed in the manner described."

No. 22,367. Henry Havell, of Newark, N. J., for an "Improvement in the manufacture of scissors."

"I do not claim generally the soldering of a steel plate on to malleable iron, by means of brass or any other metal, but what I do claim as new, and of my own invention, and desire to secure by Letters Patent, is, the forming of the blades of scissors or shears by means of the use of the intermediate plate *b*, or by soldering or brazing the malleable cast-iron and steel together, substantially in the manner and for the purpose herein described. I also claim in the manufacturing of scissors or shears the use of the die, as before mentioned, and the striking together and into the required line and shape the component parts of the blades, substantially in the manner and for the purpose herein described."

No. 22,368. Obed Hussey, of Baltimore, Md., for an "Improved method of gathering grain upon and discharging it from the platform of harvesters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method herein described of gathering grain upon and raking it from the platform of a reaping machine, and depositing it upon the ground by a raker riding on the machine directly behind the horses, and the gearing facing obliquely towards the grain which the machine is advancing to cut, and who, at a single operation with his rake, first presses the grain in front of the machine backward against the cutter, and over upon the platform; secondly, by a pivotal motion turns the prostrate grain upon the platform, with its stalks parellel to the cutter; thirdly, slides the grain endwise off the platform at the side of the machine; and fourthly, deposits the grain in a gavel on the ground behind his seat and across the track of the driving wheel of the machine, as herein set forth."

No. 22,369. Edwin A. Jeffery, of Corning, N.Y., for an "Improvement in hoop lock."

"Having thus described my invention, I claim as an improved article of manufacture, a hoop lock composed of a shell or socket A, and a taper pin B, made as herein shown and described."

No. 22,370. Thomas Lewis, of Malden, Mass., for an "Improvement in bottle stoppers."

"I do not claim a tubular self-closing bottle stopper having a ball valve, nor do I claim the improved stopper as patented by the said Williams; but what I do claim, is my improved ball valve stopper, as made with the separate cap C, provided with a discharging tubular mouth *i*, and cross bars *g*, *h*, or equivalents, for detaining the ball, as described, and connected with the main tube or body by a screw, or its equivalent."

No. 22,371. Tristram S. Lewis, of Kendall's Mills, Me., for an "Improved folding bench."

"I claim the combination and arrangement of the hinge blocks *a*, *b*, the leg slides E, F, and the confining slide G, as applied to the parts A, B, and their legs C, D, connected or hinged together, so as to fold up in manner substantially as specified."

No. 22,372. James C. McGrew, of Smithfield, Ohio, for an "Improvement in machines for elevating hay."

"What I claim in the above-described machine for elevating hay, grain, fodder, &c., is the arrangement of the bar a^{111}, and inclined platform a^{1}, a^{11}, with the sheers and hoisting fork, all substantially as described for the purposes set forth."

No. 22,373. James Montgomery, of New York, N. Y., for an "Improved buoyant propeller."

"Having thus fully described my invention, the following is what I claim as new therein, and desire to secure by Letters Patent, 1st, the described or substantially equivalent means of securing the flotation of a screw-propeller, by ejecting water therefrom by centrifugal action. 2nd, the detachable hollow blades B, in the described combination with the shaft A, for the purposes set forth. 3rd, the application of the valve *i*, arranged as described in the forward end of the hollow shaft A, for the purpose explained."

No. 22,374. Albert W. Morse, of Eaton, N. Y., for an "Improvement in seeding machines.

"I do not claim a clod-crusher, nor a roller, nor a seed-sower separately; what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the hopper *f*, with the rollers *g*, *g*, belt or strap *e*, rollers *m*, and rings *a*, as described for the purposes set forth."

No. 22,375. John Peckham, of New Haven, Conn., for an "Improvement in draughting shirts."

"I am aware that measures for draughting garments have been made by folding tapes or paper strips in such manner as to form a graduated scale, and I therefore do not claim the measures in themselves considered; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, draughting shirts by means of the neck and breast measures A, B, formed and applied to the cloth as herein shown and described, so that the neck circle will be chiefly cut or formed in the back portion of the shirt, and the upper part of the back portion folded over and united to the top of the front portion, on a line with the base of the neck, as set forth."

No. 22,376. Augustus Plinta, of Albany, N. Y., for an "Improvement in R. R. rails."

"I claim the construction of a railway rail by forming the same hollow of an elliptical or oviform shape in cross section, the lower portion of the arch being extended into a foot or flange, and a segment of the upper arch being extended into a lip or face for the tread of car wheels, slots being made through the bottom, and across the lower part of the body of the rail, substantially in manner and form, and for the purposes set forth in the within specification."

No. 22,377. David D. Porter, of U. S. Navy, for an "Improvement in quoins for gun carriages."

"I claim the combination and arrangement of the degree rack or racks, the axle thereof, the T bolt and its groove, with the bed and wedge, substantially as and for the purpose as described. I do not claim the mere use of raised projections for indicating numbers by the touch of the finger, as I am aware that such is not new; but what I do claim is the combination and arrangement of the tangible scale and axle with the degree rack and the wedge, so that by the application of the finger to both scale and axle at one and the same time, and during the night or otherwise, the proper position of the wedge may be determined for any desirable elevation of the gun."

No. 22,378. Joseph Redhead, of Woodville, Miss., for an "Improved self-adjustable leveling instrument."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, combining with the dish or case A, an inclined rod and ball or weight *n*, so that when said case is set upon an inclined staff, by its steel point, the ball will swing the case into a level position, for the purpose of making a leveling instrument for ascertaining the ascent or descent of ground, as set forth."

No. 22,379. George F. Rice, of Worcester, Mass., for an "Improved machine for boring wood."

"I do not claim the joints and semicircles, as that has been known before; but what I do claim, and desire to secure by Letters Patent, is, the hollow cross bar, together with the double head bolt, which enables the operator to fasten the uprights at any angle, by simply turning one nut, the whole being constructed substantially in the manner as above described, and for the purposes herein specified."

No. 22,380. H. C. Sergeant, of Columbus, Ohio, for an "Improved governor for steam-engines."

"What I claim as new, and desire to secure by Letters Patent, is,—1st, a steam-engine governor, composed in part of a steam-engine which is subject to a uniform resistance, and which works independently of and by its own velocity, controls the velocity of the engine to be governed, substantially as herein set forth. 2nd, the employment of two disks I and N, having spiral projections *f*, *f*, and *j*, *j*, on their faces, and provided with stop pins *q*, *q*, applied substantially as described, to combine an engine which is to be regulated with an isochronous revolving regulator. 3rd, the combination of what is herein termed the 'regulator engine,' its regulator S, T, *k*, *l*, *m*, and regulating valve U, or their equivalents, and the shafts H and M, and their spiral faced disks I, P, one driven by said engine, and the other by the engine to be governed, the whole applied and operating in combination with a regulating valve B, B¹, or its equivalent, substantially as herein described."

No. 22,381. Reuben Shaler, of Madison, Conn., for an "Improved brush."

"Having thus fully described my said invention, I deem it proper to say, that I am aware that brushes have been made in which the bristles have been attached to a cylinder in tufts spirally arranged in rows around it. I make no claim to such a form of arranging the bristles. I am also aware that bristles have been secured in position, after they have been attached to the handle, by pouring melted resin upon their ends or by filling the end of the brush with glue. I do not claim these modes of cementing in the bristles. The particular device which constitutes my said invention, and which I claim as having been originally and first invented by me as a new article of manufacture, is, a brush the bristles of which are secured by winding them into a spiral groove, and fastening them in the manner described, or by winding them into cement as set forth."

No. 22,382. Evan Skelly, of Plaquemine, La., for an "Improvement in boiler furnaces."

"I am aware that stoves have been made in which the fire chamber is fashioned in the form of a cone, the escape opening being contracted. I do not claim broadly the making of furnaces of conical shape; I do not claim broadly the idea of contracting the escape opening; I do not claim the arrangement of bridge walls alternately on opposite sides of the main flue; but what I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the gradually contracted fire chamber C, with the bridges F, F, G, G, as herein shown and described for the purposes set forth."

No. 22,383. Orin B. Smith, of Monticello, N. Y., for an "Improvement in harness buckles."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of the lever *c*, operating as described, with the bow B¹, for the purpose of making a harness or other buckle, and to which may be attached straps A and B, as set forth."

No. 22,384. Ira Speight, of Woodville, Miss., for an "Improvement in hominy mills."

"What I claim as my invention, and desire to secure by Letters Patent, is, hanging mill-stones by means of right and left screws, substantially as and for the purposes set forth."

No. 22,385. John Stevens and James Hanley, of New York, N. Y., for an "Improvement in buckles for skirt hoops."

"Claim:—We claim the buckle when constructed substantially in the manner described, in combination with the slides, having holes to receive the hook of the buckle, for the purpose set forth."

No. 22,386. Asa F. Tarr, of Rockport, Mass., for an "Improved mitre box."

"Having thus described my invention, I claim as an improved article of manufacture a mitre box, having a sliding frame F attached to pivoted standards (*g*), and otherwise made as herein shown and described."

No. 22,387. Enoch Thomas, of Beverley, Va., for an "Improvement in cam press."

"Having thus fully specified and described my invention what I claim as new, and desire to secure by Letters Patent, is, the mode of making and arranging the journal boxes so as easily to vary the space under the follower, and retain the uniform position of the pressure, in combination with the cam and windlass cast solid, when constructed and operated substantially as specified and for the purposes set forth."

No. 22,388. William Tucker, of Blackstone, Mass., for an "Improved dynamometer."

"I claim the combination of the grooved slider D and its screw connection G, with the index pointer E, or its equivalent, and the spring C and pulley A, or its equivalent, applied to a shaft B, substantially as described, the slider having a feather connection *a* with the said shaft, as explained."

No. 22,389. Reed Vincent, of Rockton, Ill., for an "Improvement in ploughs."

"What I claim as my invention, and desire to secure by Letters Patent, is, as follows,—the combination of the convex standard A, the braces B, D, and the mold board, when arranged in connection with the beam and bent handles C, as described and represented, and for the purpose set forth."

No. 22,390. Francis T. Cordis and William W. Wade, of Long Meadow, Mass., for "Labels for trees, &c."

"What we claim as our invention, and desire to secure by Letters Patent, is, the combination of a metallic rim, or back, with paper or other suitable substance on which is written or printed the name of a tree, shrub, plant, or seed, and a plate or plates of mica and a metallic ring in either of the modes in the foregoing specification described, as a tag or label for designating and distinguishing the varieties of trees, shrubs, plants, and seeds, in orchards, nurseries, and gardens, as above described."

No. 22,391. Andrew Walker, of Claremont, N.H., for an "Improvement in apparatus for purifying gas."

"I do not claim the purification of illuminating gas by means of water when applied in a shower of drops, or of finely divided streams; but I claim the combination and arrangement of separate chambers opening into each other in such manner that a current of water or fluid may be made to flow through the series in thin falls or sheets, or from one chamber to the next in a thin fall or sheet, substantially as described, and a current of gas be made to pass upward and through the several chambers, and successively through, and against the several falls or sheets of fluid, essentially as explained, the chambers being disposed one over the other in column, and the whole being to effect the purification of gas for illumination, as described."

No. 22,392. David Wells, of Lowell, Mass., for an "Improvement in stoves."

"I am aware that various plans have been devised for admitting heated air into stoves and furnaces so that the products of combustion may be mixed therewith, in order to insure the burning of the same. I therefore do not claim broadly such idea; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent is, the arrangement of the flues D¹, D¹, smoke chamber E, air-heating chamber G, and fire chamber B, the latter communicating with the smoke chamber by means of perforations *b*, and the smoke chamber communicating with the air-heating chamber by perforations *a*, substantially as and for the purpose set forth."

No. 22,393. Ezra Wells, of Covington, Pa., for an "Improvement in manufacture of glass furnaces and pots."

"Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is, the new article of manufacture, namely, pots and furnaces made of the black American clay for use in manufacturing glass and glass ware, substantially as set forth, for the purposes described."

No. 22,394. Norman S. White and Aaron Denio, of Shaftesbury, Vt., for an "Improved method of attaching cutting lips to auger shanks."

"What we claim as our invention, and desire to secure by Letters Patent, is, we do not claim broadly attaching the cutting parts to the screw shaft of augers, but we do claim the specific manner set forth and shown in the specification and drawings."

No. 22,395. J. A. Woodward, of Burlington, Iowa, for an "Improvement in smut machines."

"I do not claim the curved blast spout A, nor do I claim broadly a scouring device connected therewith, for such may be seen in the patented case of mine formerly alluded to; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the wire cloth cylinder G, scourer E, deflecting or separating bar I, spout f^4, and shoe J, as and for the purpose set forth."

No. 22,396. George C. Ayling, of Boston, Mass., assignor to himself and Henry A. Ayling, of said Boston, for an "Improved instrument for measuring altitudes, etc."

"I do not claim the combination of the detector glass with the index and horizon glasses; but what I do claim is, the arrangement of the index glass with respect to the detector glass so as to enable the latter to be moved either into parallelism with, or at right angles to, the former, and combining with the detector glass and the main divided arc and index a secondary index and divided arc, applied to register the movements of the detector glass, substantially as described."

No. 22,397. Samuel Baldwin, of Newark, N. J., assignor to Baldwin and Co., of said Newark, for an "Improvement in watch faces."

"Having thus described my improvement in watches, what I claim therein as new, and desire to secure by Letters Patent, is, arranging the figures of the dial without turning the works of the watch in a plane parallel to its face, substantially as described, so that they may be in the proper positions in relation to the pendant whether the dial faces be the open or the closed bizzle of the case."

No. 22,398. William Hathaway, of Worcester, Mass., assignor to William G. Maynard, of said Worcester, for an "Improved clothes frame."

"Having thus described my improvements in clothes frames, what I claim therein as new, and desire to secure by Letters Patent, is, arranging the center of motion of the cross bars, substantially as described, so that the center of motion of the outer end of the cross bar when the frame is closed will be over or within the center of motion of the inner end of the cross bar, for the purpose set forth."

No. 22,399. Robert Heneage, of Buffalo, N. Y., assignor to himself and Edward O. Ball, of said Buffalo, for an "Improvement in hemp brakes."

"1st, I claim the combination of the reversing mechanism with the brake B, B^2, beater C, C^2, and shell K, substantially as herein described, and for the purpose of dressing hemp, as set forth. 2nd, I claim the combination and arrangement of the brake B, B^2, with the revolving beater C, C^2, shell K, and revolving apron J, for the purpose of dressing flax, substantially as herein set forth. 3rd, I claim the arrangement of the chamber X within the machine, for the purpose of affording room for the movements of the hemp while being dressed, substantially as herein described."

No. 22,400. Reuben K. Huntorn, of Concord, N. H., assignor to himself and Jacob B. Rand, of said Concord, for an "Improved machine for turning tapering twists on wood."

"I do not claim the invention of pattern guides E, E, applied to a moving carriage J, and irrespectively of a rotary twist block and the mechanism connecting the same with the stock mandrels or arbors; nor do I claim stationary rests for the carriage guides E, E, to move on; but what I do claim is, the arrangement of the several separate devices described, when operated as set forth, for turning irregular tapering forms of wood."

No. 22,401. Charles Marzoni, of New York, N. Y., assignor to J. Gandolfo, of said New York, for an "Improvement in the manufacture of paper pulp from wood."

"Having thus described my machinery, apparatus, and process for converting wood into pulp, for making paper, what I claim as my invention therein is as follows:—First, I claim the use and application of the peculiar stone called adamantine, within described, when used as a means of tearing the woody fiber into a state suitable for pulp for paper, as described, by rotation, or any other substantially similar manner. Second, I do not claim steaming the wood, nor the use merely of hot water; but I claim the combining the use of the hot water at the boiling point or 210 Fahrenheit, with the stone in rotation while acting upon the wood simultaneously and continuously, so as that the hot water and flakes or particles of woody fiber immediately become united into, pulp. Third, I claim the apparatus, consisting of the cover or box E, the boxed openings therein 1, 2, 3, 4, and arms, rods and weights 7, 8, 9, by which the blocks of wood are fed and held to the surface of the stone."

No. 22,402. Martin Robbins and James Powell, of Cincinnati, Ohio, assignors to James Powell aforesaid, for an "Improvement in fauceto."

"We claim as new, and of our invention herein, the application to the key stem of the collar I, cushion Q, and loose collar R, or their equivalents, arranged and operating in combination in the manner described, to compensate for the lateral wear or displacement of the said stem."

No. 22,403. John L. Rowe, of New York, N. Y., assignor to Frederick Stevens, of said New York, for an "Improved ice pick."

"I do not claim the handle, rod, or point, as these are well known; but what I do claim, and desire to secure by Letters Patent, is, I claim the spiral spring D in combination with the handle A, rod F, and point B, as arranged substantially as and for the purpose specified."

Re-issue.

Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853.—Re-issued 21st December, 1858.

"Claims.—The combination of the support or stand for the raker, placed behind the axis of the reel, balanced or sustained with the raker thereon by the driving wheel, with the reel and with the short platform. Also I claim combining with the side draft reel reaping machine, having a reel for gathering the grain to the platform, a stand or seat for the raker fixed firmly upon the platform of the machine, so as to enable the raker securely to get at the grain as deposited on the platform by the reel, and deliver and lay it properly on the ground from a single or short platform, out of the return track of the horses, in suitable gavels, for being bound into sheaves. And I also claim the combination of the reel for gathering the grain to the cutting apparatus and depositing it on the platform, with the stand or support for the raker, or the equivalent thereof, to enable him with ease and celerity regularly to remove the grain from the machine and lay it on the ground, out of the return track of the horses. And I also claim the construction of the stand or support for the raker, on the frame or platform of the machine, so that it gives to the raker such lateral and forward support to his body when standing at work, that he may have free use of his arms and the upper part of his body to remove the cut grain from the platform, while at the same time he is so held fast that he cannot be thrown upon the reel, nor prevented from performing his functions by the jolting of the machine as it moves over the uneven ground."

Additional Improvements.

Wm. Bradley, of Manchester, Va., for an "Improvement in machinery of dressing and sizing warps."—Patented 11th May, 1858.—Additional improvement dated 21st December, 1858.

"Claim.—The covering of the drying rollers with some non-conductor of heat, or material having less conductive

properties than the material, to prevent the caking, or uneven drying, of the size in the warps."

ALEXANDER M. HOLMES, of Morrisville, N. Y., assignor to himself and Albert G. Purdy, of said Morrisville, for an "Improvement in car seats and couches."—Patented 6th December, 1858.—Additional improvement dated 21st December, 1858.

"Claim.—The use of the adjustable back-pad or equivalent, and combining therewith the adjustable head-rests."

List of Specifications, &c. published during the week ending 7th January, 1859.

No.	Price.	Subject-Matter.
1201	5*d.*	Key-joint for connecting detached pieces of wood or metal.
1203	11*d.*	Machinery for sweeping and cleansing roads and streets.
1204	10*d.*	Machinery for cutting or splitting wood.
1205	3*d.*	Raising weights.
1206	3*d.*	Nose bags for horses.
1207	3*d.*	Aerated water.
1208	5*d.*	Steam engine boilers.
1209	1*s.* 3*d.*	Spinning and roving machines.
1210	9*d.*	Machinery for preparing and spinning motley yarns.
1211	3*d.*	Apparatus for winding clocks.
1212	5*d.*	Manufacture of umbrellas.
1213	3*d.*	Apparatus for the cure of smoky chimneys.
1214	3*d.*	Steam generators.
1215	6*d.*	Fumigating apparatus.
1216	3*d.*	Ships' gear.
1217	4*d.*	Dyeing, &c.
1218	6*d.*	Book clasp.
1219	3*d.*	Manufacture of starch, &c.
1220	9*d.*	Perambulators.
1221	3*d.*	Ornamental staining, dyeing, &c.
1222	6*d.*	Machinery for affixing postage stamps.
1223	3*d.*	Steam engines for propelling vessels, &c.
1224	3*d*	Iaeger.
1225	3*d.*	Printing and dyeing textile and other fabrics.
1226	3*d.*	Manufacture of coke.
1227	3*d.*	Manufacture of soap.
1228	3*d.*	Heel for boots and shoes.
1229	3*d.*	Tramways for bedsteads.
1230	3*d.*	Paper.
1231	3*d.*	Stand or rest for cameras, &c.
1232	1*s.* 10*d.*	Agricultural apparatus for ploughing, &c
1233	3*d.*	Railway signals.
1234	3*d.*	Machinery for the manufacture of fishing and other nets.
1235	10*d.*	Machinery for the manufacture of peat fuel, &c.
1236	6*d.*	Farming implement or gleaner.
1237	5*d.*	Ploughs.
1238	10*d.*	Apparatus for producing.
1239	2*s.* 10*d.*	Electric telegraphs.
1240	3*s.* 4*d.*	Machinery for weaving.
1241	4*s.* 6*d.*	Electro-magnectic telegraphs.
1242	10*d.*	Looms for weaving.
1243	3*d.*	Motive-power engines.
1244	7*d.*	Boilers and valves.
1245	11*d.*	Water closets, night commodes, &c.
1246	8*d.*	Pistons for pumps.
1247	3*d.*	Manufacture of alum.
1249	5*d.*	Manufacture of woven fabrics.
1250	3*d.*	Furnaces for smelting iron ore, &c.
1251	3*d.*	Purification of paraffine.
1252	1*s.* 7*d.*	Manufacture of railway wheel tyres, &c.
1253	6*d.*	Pipe stem or tube.
1254	6*d.*	Mangles.
1255	4*d.*	Protecting the silvered surfaces of glass.
1256	3*d.*	Machinery for preparing and combing wool, &c.
1257	3*d.*	Looms for weaving.
1258	11*d.*	Railways.
1259	3*d.*	Prevention of dust on railways.
1260	3*d.*	Extinguishing fires on railway trains.
1261	9*d.*	Manufacture of boots, shoes, and slippers.
1262	3*d.*	Ordnance and fire-arms.
1263	3*d.*	Preparation of vegetable fibres for stuffing.
1264	6*d.*	Railway wheels, &c.
1265	3*d.*	Reaping machine.
1266	5*d.*	Kneading apparatus.
1267	3*d.*	Gas burners.
1268	3*d.*	Manufacture of electric telegraph cables
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No. 525. FRIDAY, JANUARY 14, 1859. Price 2d.

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2258. To JOHN SAXBY, Engineer, of Brighton, Sussex, for the invention of "Improvements in apparatus for working signals on railways."
On his petition, recorded in the Office of the Commissioners on the 11th day of October, 1858.

2724. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A watch, simplified with anchor escapements and rack, forming a double lever, catching in the pinion of its balance wheel." — A communication from Antoine Lepage.
On his petition, recorded in the Office of the Commissioners on the 30th day of November, 1858.

2884. To JASPER HENRY SELWYN, of Woodland Crag, Grasmere, in the county of Westmoreland, Captain in the Royal Navy, for the invention of "A novel apparatus for paying out for laying down submarine telegraph cables or wires, and for raising the same after they have been laid down."
On his petition, recorded in the Office of the Commissioners on the 16th day of December, 1858.

2900. To JAMES MAC KENZIE, Manager to William Strode, of Saint Martin's-le-Grand, in the city of London, Gas Engineer, for the invention of "Improvements in those gas burners known as ventilating sun burners."

2902. To JAMES TAYLOR, of Birkenhead, Engineer, for the invention of "Improvements in the construction of pumps or engines for lifting and discharging water."

2904. To EMILE WEBER, of Mulhouse, in the empire of France, Chemist, for the invention of "Improvements in dyeing or coloring textile fabrics and materials, and in the machinery or apparatus connected therewith."

2906. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for re-working the waste steam of steam engines."—A communication.
On their several petitions, recorded in the Office of the Commissioners on the 18th day of December, 1858.

2908. To SAMUEL HUNTER, of Newcastle-upon-Tyne, Gentleman, for the invention of "Improvements in the construction of anchors."

2910. And to JAMES RONALD, of Liverpool, in the county of Lancaster, Merchant, for the invention of "An improved machine for the direct spinning of hemp, flax, and other like fibrous materials."
On their petitions, both recorded in the Office of the Commissioners on the 20th day of December, 1858.

2912. To FREDERICK WINTER, of Hoxton, in the county of Middlesex, Manufacturer, for the invention of "Improvements in the preparation and application of varnishes for waterproofing paper, linen, and textile fabrics, and coating the same with metallic foils."

2914. To WILLIAM ELBERT DANDO, of the state of Pennsylvania, in the United States of America, at present residing in Manchester, in the county of Lancaster, Clerk, for the invention of "Improvements in apparatus for lowering boats from ships or vessels, and also for raising the same as required."

2918. And to NICHOLAS DAWSON, of 76, High Street, Poplar, in the county of Middlesex, Sta-

tioner, for the invention of "Improvements in order books."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of December, 1858.

2922. To GEORGE SHARP, of Jarrow, in the county of Durham, Millwright, and WILLIAM ELDER, of the same place, Engine Smith, for the invention of "Improvements in furnaces and steam boilers."

2926. To EDWARD THOMAS DUNN, of Hammersmith, in the county of Middlesex, Gentleman, for the invention of "Improved fabrics suitable for the covering of floors, walls, and other like purposes."

2928. To MOLYNEUX SHULDHAM, of Dursley, in the county of Gloucester, Commander Royal Navy, for the invention of "Improvements in ships and vessels, and in working parts of their gear and rigging."

2930. And to ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for the invention of "Improvements in ornamenting and illuminating surfaces of glass."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of December, 1858.

2932. To DAVID LICHTENSTADT, of Henry Cottages, Park Road, Peckham, in the county of Surrey, Chemist, for the invention of "Converting a certain vegetable substance into fibrous material for the manufacture of textile and other fabrics."

2934. To THOMAS BIRD, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in spinning, and in the manufacture of cop bottoms or cop tubes."

2936. To JOHN WHITELAW, of Dunfermline, in the county of Fife, North Britain, Ironfounder, for the invention of "Improvements in sewerage and drainage apparatus."

2938. And to JOSEPH MAUDSLAY, of Lambeth, in the county of Surrey, Engineer, for the invention of "Improvements in the construction of ordnance and projectiles to be used therewith."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of December, 1858.

2942. To JOHN WRIGHT CHILD, of Halifax, in the county of York, Engineer, for the invention of "Improvements in dyeing wool and other fibres."

2944. To EDWARD FELLOWS, of Canterbury, in the county of Kent, Clerk, for the invention of "An improved vent peg."

2946. JOHN RAILTON, of Blackburn, in the county of Lancaster, Machine Maker, and SETH LANG, of the same place, Mechanic, for the invention of "Improvements in looms."

2948. To ALFRED SMITH, of Humbleton Hall, in the county of York, Agriculturist, for the invention of "Improvements in gigs, dog carts, and other vehicles."

2950. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the permanent way of railways."—A communication from Christian E. Detmold, resident at the city of New York, United States of America.

2952. And to WILLIAM BECKETT JOHNSON, Manager for Messrs. Ormerod and Son, of Manchester, in the county of Lancaster, Engineers, for the invention of "Improvements in the employment of gas for generating steam, and in engines connected therewith."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of December, 1858.

2955. To THOMAS STEVEN, Ironfounder, and THOMAS SCOTT, Engineer, both of Glasgow, in the county of Lanark, North Britain, for the invention of "Improvements in heating apparatus for culinary and warming purposes, and in part applicable to steam-boiler and other furnaces."

2956. To JOSEPH SMETHURST, of the firm of Messrs. Martin and Smethurst, of Guide Bridge, in the county of Lancaster, Engineers, for the invention of "Certain improvements in metallic pistons."

2958. To WILLIAM ARMAND GILBEE, of 4, South Street, Finsbury, London, Patent Agent, for the invention of "Improvements in treating fatty bodies, and in the apparatus employed therein."—A communication.

2959. To JAMES MACPHERSON, of Aberdeen, in the county of Aberdeen, North Britain, Comb Manufacturer, for the invention of "Improvements in solidifying the raspings and other waste of horns and hoofs, and in applying the process to the cementing of prepared horns, hoofs, and tortoiseshell."

2961. To CLAUDE MAMÈS AUGUSTIN MARION, of Paris, in the empire of France, Manufacturer, for the invention of "An improved box or case for containing and preserving sensitive photographic paper, called 'Marion's box.'"

2963. To HENRY LOWE, of Birmingham, in the county of Warwick, Manufacturer, and WILLIAM TRUEMAN, of Birmingham aforesaid, Axle Maker, and JOHN LINWOOD PITTS of Birmingham, aforesaid, Accountant Clerk, for the invention of "A new or improved axle for carriages."

2964. And to RICHARD HORNSBY, junior, of Spittlegate Iron Works, Grantham, in the county of Lincoln, for the invention of "Improvements in ploughing and tilling land by steam power, and in apparatus employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of December, 1858.

2965. To BENJAMIN BROWNE, of No. 52, King William Street, London Bridge, E. C., Civil Engineer, and Patent Agent, for the invention of "Certain improvements in the manufacture of boots and shoes, or other coverings for the feet, and in the mode or method of uniting the same, or parts thereof."—A communication.

2966. To JOHN SINCLAIR, of the city of Dublin, Ireland, Turner and Fitter, for the invention of "Improvements in pistons."

2967. To THOMAS WARREN, of Glasgow, in the county of Lanark, North Britain, Glass Bottle Manufacturer, for the invention of "Improvements in the manufacture of glass bottles."

2969. To JAMES LECK, of Glasgow, in the county of Lanark, North Britain, Bleacher, for the invention of "Improvements in drying textile fabrics and materials."

2970. To CHARLES FAY, of Manchester, in the county of Lancaster, Railway Carriage Builder, for the invention of "Improvements in railway carriages and brakes."

2971. And to JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the manufacture of boots and shoes, or other coverings for the feet."—A communication.

On their several petitions, recorded in the Office of the Commissioners on the 28th day of December, 1858.

2972. To WILLIAM HAWORTH, of the firm of Firth and Haworth, Cotton Spinners and Manufacturers, of that part of Todmorden which is in the county of York, and WILLIAM BARKER, of the same place, Overlooker, for the invention of "Improvements in the top clearers of machines for spinning."

2973. To THOMAS WELTON, of 29, New Compton Street, Soho, in the county of Middlesex, Artificial Limb Maker, for the invention of "Improvements in giving or obtaining publicity, and of advertising either by day or by night."

2974. To EDWARD WILSON CARTER, of Rochdale, in the county of Lancaster, Cutler, and JOHN DODSWORTH ABRAMS, of the same place, Machinist, for the invention of "Certain improvements in sewing machines."

2975. To WILLIAM TAYLOR, of Nursling, in the county of Southampton, Gentleman, and WILLIAM DAKIN GRIMSHAW, of the town and county of the town of Southampton, Engineer, for the invention of "Regulating the admission of natural atmospheric air and eduction of rarefied air or gases from hothouses or any other place or premises, and for supporting a required temperature."

2976. To RICHARD DUGDALE KAY, of Accrington, in the county of Lancaster, Manufacturer of Patent Fabrics, for the invention of "An improved chemical means of applying or fixing on woven or felted fabrics certain colouring matters produced from tar."

2977. To THOMAS PICKFORD, of No. 15, Mark Lane, in the city of London, Merchant, for the invention of "Improvements in the preparation and manufacture of manure."

2978. To HIRAM HUTCHINSON, of the city of Paris, France, for the invention of "Improvements in the manufacture of india rubber goods."

2979. To SAMUEL MORAND, of Manchester, for the invention of "Improvements in apparatus for stretching fabrics."

2980. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in machinery for reaping and mowing."—A communication.

2981. And to THOMAS WILLIAM GOWING, of Camden Town, in the county of Middlesex, Veterinary Surgeon, for the invention of "An improved roughing for the shoes of horses and other like animals."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of December, 1858.

2982. To HENRY NATHAN MAYNARD, of Crumlin, in the county of Monmouth, Engineer, for the invention of "Improvements in anchors, and in the manufacture of anchors."

2983. To FRANCIS PULS, Chemist, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, for the invention of "The treatment of hydrocarbons."

2985. To FREDERICK JOHNSON and JOSEPH HENRY GEORGE WELLS, of 12, North Street, Westminster, Civil Engineers, for the invention of "Improvements in constructing breakwaters and other similar structures."

2986. To JOHN FRANCIS COLFS HEYNE, of Antwerp, in the kingdom of Belgium, for the invention of "Improvements in railway chairs and rails, and in the mode of fixing the same."

2987. To THOMAS BELL, of Plaistow, in the county of Essex, for the invention of "Improvements in purifying gas."

2988. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for the invention of "Improvements in stoppering or closing bottles, jars, and other like vessels."—A communication from M. Chamblant, residing at Paris.

2989. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in washing and drying machinery and apparatuses."—A communication from S. Charles, residing at Paris.

2990. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in revolving fire-arms."—A communication from L. F. Devisme, residing at Paris.

2991. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in machines for embroidering."—A communication from B. G. Dutel, residing at St. Quentin, France.

2992. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in machinery for splitting or dividing hides, skins, leather, and other like materials."—A communication from F. Martin, residing at Paris.

2993. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "An improvement in pipes for smoking."—A communication from P. F. Varenne, residing at Paris.

2994. To WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Engineers, for the invention

of "Improvements in apparatuses for converting reciprocating into rotary motion."—A communication from G. Bancker, residing in New York.

2995. To SAMUEL STEPHEN BATESON, of 17, Bolton Street, May Fair, in the county of Middlesex, Barrister-at-Law, for the invention of "Improvements in generating steam."

2996. To JOHN KNOWELDEN, of Southwark, in the county of Surrey, Engineer, and RICHARD DOWNES EDWARDS, of Upper Belgrave Place, in the county of Middlesex, for the invention of "Improvements in hydraulic engines and apparatus connected therewith."

2997. And to JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, in the county of Middlesex, Gentleman, for the invention of "Improvements in or connected with appliances for transmitting or conducting signals or action by electricity or magnetism, and in the method of testing insulating materials, combinations, or structures, for conducting electricity, and in treating malconstructed or invalid electric telegraph cables, and in utilizing parts of certain cables, or the application otherwise of such structures, and in certain insulating compounds, and in the apparatus and machinery used in connection therewith."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of December, 1858.

2998. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the permanent way of railways."—A communication.

3000. To HENRI ROBIN, of Nantes, in the empire of France, for the invention of "Improvements in reaping machines."

3002. To TIMOLEON ZOÉ LOUIS MAUREL, of No. 44, Rue du Dragon, in the city of Paris, in the empire of France, Civil Engineer, for the invention of "An apparatus protracting indefinitely the working of any mechanism set in motion by springs, more generally applicable to clock-making."

3006. And to LOUIS A. NORMANDY, of 67, Judd Street, London, for the invention of "A new system of shaft tugs."—A communication.

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Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

78. THOMAS HARRIS TOMS, of Staining Lane, in the city of London, praying for Letters Patent for the invention of "The employment of certain materials for the production of raised ornamental figures or devices upon textile fabrics," was deposited and recorded in the Office of the Commissioners on the 10th day of January, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

14th *January,* 1859.

1580. WILLIAM WOODCOCK, of No. 36, Great George Street, Westminster, in the county of Middlesex, Engineer, for an invention of "Certain improvements in apparatus for warming air."—Dated 14th July, 1858.

1584. JAMES JONES, of the City Water Works, Oxford, Engineer, for an invention of "Improvements in meters for measuring liquids."—Dated 14th July, 1858.

1605. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the city of London, and of Strangeways Iron Works, Manchester, in the county of Lancashire, Engineer, for an invention of "Improvements in electric telegraph cables for submarine purposes, and in the machinery for manufacturing such cables, and also in the machinery to be used in paying such cables out of ships at sea."—Dated 16th July, 1858.

1612. THOMAS HART, of Glasgow, in the county of Lanark, North Britain, Plumber, for an invention of "Improvements in taps or valves, and in apparatus for regulating the flow of fluids."—Dated 17th July, 1858.

1613. JAMES SPENCE, of Liverpool, in the county of Lancashire, Iron Merchant, for an invention of "An improvement in the manufacture of tin plates and terne or leaded plates."—Dated 17th July, 1858.

1615. WILLIAM WILDES, of Maidstone, in the county of Kent, Paper Maker, for an invention of "An improved arrangement or arrangements of machinery for reducing vegetable matter to pulp."—Dated 17th July, 1858.

1626. WILLIAM TASKER the younger, of the firm of William Tasker and Sons, of Waterloo Iron Works, near Andover, in the county of Hants, Engineers for an invention of "Improvements in combined thrashing machines."—Dated 19th July, 1858.

1629. CHARLES LAMBERT, of Sunk Island, in the East Riding of the county of York, Farmer, for an invention of "Improvements in collars for horses and other draught animals."—Dated 19th July, 1858.

1654. CHARLES GAMMON, of No. 9, Cloak Lane, in the city of London, Solicitor, for an invention of "Improvements in the fastening of envelopes and letters."—Dated 22nd July, 1858.

1656. JEAN BAPTISTE PIERRE ALFRED THIERRY, junior, of Paris, in the empire of France, for an invention of "Improvements in furnaces."—Dated 22nd July, 1858.

1762. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in inkstands."—A communication from a Foreigner residing abroad—Dated 3rd August, 1858.

1814. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved method of arranging and applying magnets to counteract or compensate for the effects of local attraction on the mariner's compass."—Dated 9th August, 1858.

2162. Edmund Leopold Benzon, of Sheffield, in the county of York, Steel Manufacturer, for an invention of "Improvements in the manufacture of steel."—A communication from the inventor, Franz Anton Lohage, residing at Unna, in the kingdom of Prussia.—Dated 27th September, 1858.

2190. Thomas Preston, of Nottingham, Manufacturer, for an invention of "Improvements in the manufacture of looped fabrics."—Dated 1st October, 1858.

2214. John Milnes, of Sutton Mill, Cross Hills, near Leeds, in the county of York, Overlooker, for an invention of "Improvements in weaving fabrics where cross weaving is employed."—Dated 5th October, 1858

2352. Edwin Bartholomew Horn, of the state of Massachusetts, of the United States of America, for an invention of "An improved compensation apparatus for a hair-spring balance for a watch or time piece."—Dated 21st October, 1858.

2415. Peter Wright, of Dudley, in the county of Worcester, Manufacturer, for an invention of "Improvements in the manufacture of anvils."—Dated 29th October, 1858.

2486. Baron Dickinson Webster, of Penns, in the county of Warwick, and James Horsfall, of Birmingham, in the county of Warwick, Manufacturers and Copartners, for an invention of "An improvement in the manufacture of steel wire."—Dated 6th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(11*th January*, 1859.)

84. Thomas Charles Clarkson, of 216, High Street, Wapping, in the county of Middlesex, for an invention of "A combination of certain materials for forming and making improvements in ship and other pumps' tubes, and which is also applicable for ship, carriage, and other building purposes, and parts thereof."—Dated 11th January, 1856.

92. Harry Emanuel, of Hanover Square, in the county of Middlesex, Silversmith, for an invention of "Improvements in the manufacture of spoons, forks, and other similar articles in metal."—A communication.—Dated 12th January, 1856.

93. William Owen, of Rotherham, in the county of York, Iron Master, for an invention of "Improvements in the manufacture of railway wheels and tires."—Dated 12th January, 1856.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. 1.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson. (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638.) Price 8*d.*
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8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will, III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
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B. WOODCROFT.

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Notices to Proceed.

NOTICE is hereby given that

2032. WILLIAM PARSONS, of Pratt Street, Lambeth, Manufacturing Engineer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in apparatus to be applied to steam boilers, in order to keep the surfaces of the tubular flues free from incrustation."

2034. And WILLIAM PARSONS, of Pratt Street, Lambeth, Manufacturing Engineer, has given the like notice in respect of the invention of "Improvements in safety valves of steam boilers."

As set forth in his respective petitions, both recorded in the said office on the 8th day of September, 1858.

2040. And WILLIAM PRISLEY, residing at No. 7, Townley Place, Brandon Street, Walworth, in the parish of Newington, in the county of Surrey, has given the like notice in respect of the invention of "Advertizing by day or night."

2041. And JOHN ROWLEY, of Grosvenor Terrace, Camberwell, in the county of Surrey, has given the like notice in respect of the invention of "A new compound material applicable as a substitute for leather and leather-cloth, in the manufacture of various useful and ornamental articles."

2043. And CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the county of Lancaster, Soap Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of grease for lubricating purposes."

2045. And THOMAS TIMMS, of 1, Skelton Street, Greenwich, in the county of Kent, Coachman, has given the like notice in respect of the invention of "Improvements in bits."

As set forth in their respective petitions, all recorded in the said office on the 9th day of September, 1858.

2058. And DAVID CHEETHAM, of Rochdale, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing for spinning and spinning cotton, wool, and other fibrous materials."

2059. And WILLIAM TOSHACH, of the Railway Works, Bristol Road, Gloucester, in the county of Gloucester, Engineer, has given the like notice in respect of the invention of "Improvements in pile driving machines."

As set forth in their respective petitions, both recorded in the said office on the 10th day of September, 1858.

2065. And HENRY PAGE, of Whitechapel, in the county of Middlesex, Glass Merchant, has given the like notice in respect of the invention of "An improved crown or round glass, and apparatus for manufacturing the same."

2066. And JOSEPH LESTER HINKS, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "A new or improved tap or cock for drawing off and filtering liquids."

2069. And LEONARD KABERRY, of Rochdale, in the county of Lancaster, Manager, and THOMAS MITCHELL, of the same place, Manager, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing for spinning and spinning cotton, wool, and other fibrous materials."

As set forth in their respective petitions, all recorded in the said office on the 11th day of September, 1858.

2074. And CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in refrigerators, and in the treatment of the freezing or cooling material or materials used therewith."

2075. And SAMPSON HANBURY, of the Birmingham Patent Iron and Brass Tube Company, of Smethwick, in the county of Stafford, Manufac-

turer, has given the like notice in respect of the invention of "An improvement in the manufacture of tubes of copper, brass, and other metals."
As set forth in their respective petitions, both recorded in the said office on the 13th day of September, 1858.

2082. And Jozé Luis, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, in the county of Middlesex, has given the like notice in respect of the invention of "Coke and gas kilns."—A communication.

2086. And Robert Lakin, of Ardwick, in the county of Lancaster, Machinist, and John Wain, of the city of Manchester, in the said county, Mechanic, have given the like notice in respect of the invention of "Improvements in spinning mules and other machines of that class used for spinning cotton and other fibrous substances."
As set forth in their respective petitions, both recorded in the said office on the 14th day of September, 1858.

2093. And William Garnett Taylor, of Ashby-de-la-Zouch, in the county of Leicester, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of gloves."
As set forth in his petition, recorded in the said office on the 15th day of September, 1858.

2099. And Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "Machinery or apparatus for dressing and finishing fabrics."—A communication from Pierre Labérie, residing at Mazamet (Tarn), in the empire of France.
As set forth in his petition, recorded in the said office on the 17th day of September, 1858.

2107. And John Gay Newton Alleyne, of Butterley Iron Works, Alfreton, in the county of Derby, has given the like notice in respect of the invention of "Improvements in the manufacture of wrought-iron beams and girders."
As set forth in his petition, recorded in the said office on the 18th day of September, 1858.

2122. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved machine for sweeping carpets and floors."—A communication.

2123. And John Dewrance, of Bargeyard, in the city of London, Engineer, has given the like notice in respect of the invention of "An improvement in the construction of piano forte frames."
As set forth in their respective petitions, both recorded in the said office on the 21st day of September, 1858.

2151. And George Leonard Turney, of Aldermanbury, in the city of London, Needle Manufacturer, has given the like notice in respect of the invention of "An improved mode of packing pins for sale."
As set forth in his petition, recorded in the said office on the 24th day of September, 1858.

2154. And Marc Antoine Francois Mennons, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "The separation of iron and steel from their combination with certain foreign bodies."—A communication from a Foreigner residing at Charleroi, in Belgium.

2157. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in purifying natural phosphates of lime."—A communication from Emile Constant Martin, residing at Paris, in the empire of France, formerly Banker.
As set forth in their respective petitions, both recorded in the said office on the 25th day of September, 1858.

2258. And John Saxby, Engineer, of Brighton, Sussex, has given the like notice in respect of the invention of "Improvements in apparatus for working signals on railways."
As set forth in his petition, recorded in the said office on the 11th day of October, 1858.

2519. And John Buchanan, of Greenock, in the county of Renfrew, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in propelling vessels, ships, and boats."
As set forth in his petition, recorded in the said office on the 10th day of November, 1858.

2537. And John Buchanan, of Greenock, in the county of Renfrew, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in propelling vessels, ships, and boats."
As set forth in his petition, recorded in the said office on the 11th day of November, 1858.

2819. And Robert Lloyd Burrowes, of St. Helen's, in the county of Lancaster, Professor of Music, and John Knowles, junior, of the same place, Mine Surveyor, have given the like notice in respect of the invention of "Certain improvements in the construction of pianofortes and organs."
As set forth in their petition, recorded in the said office on the 9th day of December, 1858.

2885. And John William Edge, of Manchester, in the county of Lancaster, Gun Maker, has given the like notice in respect of the invention of "A certain improvement in balls, bullets, or other projectiles to be employed in fire-arms or ordnance."
As set forth in his petition, recorded in the said office on the 16th day of December, 1858.

2896. And James Kerr, of 17, Bedford Terrace, Trinity Square, Southwark, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of revolving fire arms."
As set forth in his petition, recorded in the said office on the 17th day of December, 1858.

2930. And Alexander Prince, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, has given the like notice

in respect of the invention of "Improvements in ornamenting and illuminating surfaces of glass."
As set forth in his petition, recorded in the said office on the 22nd day of December, 1858.

2936. And JOHN WHITLAW, of Dunfermline, in the county of Fyfe, North Britain, Ironfounder, has given the like notice in respect of the invention of "Improvements in sewerage and drainage apparatus."
As set forth in his petition, recorded in the said office on the 23rd day of December, 1858.

2942. And JOHN WRIGHT CHILD, of Halifax, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in dyeing wool and other fibres."

2944. And EDWARD FELLOWS, of Canterbury, in the county of Kent, Clerk, has given the like notice in respect of the invention of "An improved vent peg."

2948. And ALFRED SMITH, of Humbleton Hall, in the county of York, Agriculturist, has given the like notice in respect of the invention of "Improvements in gigs, dog carts, and other vehicles."

2850. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."—A communication from Christian E. Detmold, resident at the city of New York, United States of America.
As set forth in their respective petitions, all recorded in the said office on the 24th day of December, 1858.

2955. And THOMAS STEVEN, Ironfounder, and THOMAS SCOTT, Engineer, both of Glasgow, in the county of Lanark, North Britain, have given the like notice in respect of the invention of "Improvements in heating apparatus for culinary and warming purposes, and in part applicable to steam-boiler and other furnaces."
As set forth in their petition, recorded in the said office on the 27th day of December, 1858.

2969. And JAMES LECK, of Glasgow, in the county of Lanark, North Britain, Bleacher, has given the like notice in respect of the invention of "Improvements in drying textile fabrics and materials."
As set forth in his petition, recorded in the said office on the 28th day of December, 1858.

2997. And JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in or connected with appliances for transmitting or conducting signals or actions by electricity or magnetism, and in the method of testing insulating materials, combinations, or structures for conducting electricity, and in treating malconstructed or invalid electric telegraph cables, and in utilizing parts of certain cables, or the application otherwise of such structures, and in certain insulating compounds, and in the apparatus and machinery used in connection therewith."
As set forth in his petition, recorded in the said office on the 30th day of December, 1858.

2998. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."—A communication.
As set forth in his petition, recorded in the said office on the 31st day of December, 1858.

26. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "Certain improvements in steam generators."—A communication.
As set forth in his petition, recorded in the said office on the 3rd day of January, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

18th January, 1859.

1628. WILLIAM HERAPATH, of the city of Bristol, Analytical Chemist, for an invention of "An improvement in the manufacture and treatment of paper with the view to the prevention of forgery."—Dated 19th July, 1858.

1630. SOLOMON MAW, of Aldersgate Street, in the city of London, Surgical Instrument Maker, for an invention of "An improved feeder for administering food."—Dated 19th July, 1858.

1636. REUBEN CLARKE, of Cwmbrân near Newport, (Mechanic), in the county of Monmouth, for an invention of "Improvements in windows, window blinds and shutters."—Dated 20th July, 1858.

1640. WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural Implement Maker, for an invention of "Improvements in crushing mills."—Dated 20th July, 1858.

1644. JOHN WILLIAM WILSON, of Barnsley, in the county of York, Timber Merchant and Bobbin Manufacturer, for an invention of "Certain improvements in machinery or apparatus for turning and cutting wood and other substances."—Dated 21st July, 1858.

1646. Thomas Piatti, of Paris, France, Gentleman, for an invention of "An improved propeller." —Dated 21st July, 1858.

1652. Benjamin Blake, of Eccleston, near Prescot, in the county of Lancaster, Earthenware Manufacturer, for an invention of "An improved kiln for burning earthenware and other similar articles."—Dated 22nd July, 1858.

1653. Henry Green, of Liverpool, in the county of Lancaster, Ironmonger, for an invention of "A new or improved hinge for hanging and closing doors, gates, or windows."—Dated 22nd July, 1858.

1657. Archibald Brown Tripler, of No. 1, Michael's Grove, Brompton, for an invention of "Improvements in obtaining products from a species of asphaltum at present found in the island of Cuba, and called Chapafote."—Dated 22nd July, 1858.

1668. William Merry, of No. 9, Park Place Villas, Paddington, London, for an invention of "Improvements in apparatus for preventing the escape of foul air from area, kitchen, and scullery drains of dwelling houses, also from street, stable, and slaughterhouse drains."—Dated 24th July, 1858.

1679. James Taylor and John Nimmo, both of Glasgow, in the county of Lanark, North Britain, for an invention of "Improvements in healds, and in machinery or apparatus for making healds."—Dated 26th July, 1858.

1685. John Hope, of the state of Rhode Island, of the United States of America, for an invention of "A new and useful mechanism or apparatus for supporting and adjusting a graver of a machine for engraving the surface of a calico printer's roller, preparatory to the same being etched."—Dated 26th July, 1858.

1752. Hugh Greaves, of Westminster, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in constructing streets, roads, and ways, thereby facilitating traffic, and providing for the more convenient conveyance of sewage, drainage, gas and water supplies, and telegraphic wires along the same." — Dated 2nd August, 1858.

1759. James Steel, of Glasgow, in the county of Lanark, North Britain, Brewer, for an invention of "Improvements in brewing and distilling."—Dated 3rd August, 1858.

2025. Gustave Larsonnier, of Paris (France), Manufacturer, and Auguste Blanche, of Paris (France), Civil Engineer, for an invention of "Improvements in block-printing by hand on tissues, paper, or other suitable fabrics."—Dated 7th September, 1858.

2554. Christopher James Thomas, Thomas Thomas, Herbert Thomas, and Charles Thomas, all of the city of Bristol, Soap Manufacturers and Copartners, for an invention of "An improvement in the manufacture of caustic alkaline lees."—Dated 13th November, 1858.

2625. William Marshall, of Leith Walk, in the county of Mid-Lothian, North Britain, Engineer, for an invention of "Improvements in steam engines."—Dated 19th November, 1858.

2628. James Easton the elder and Charles Edwards Amos, both of the Grove, in the Borough of Southwark, Engineers, for an invention of "Improved apparatus applicable to drains, sewers, and watercourses for the purpose of removing extraneous solid matters therefrom."—Dated 19th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 15th January, 1859, inclusive.*)

13th January.

106. William Owen, of Rotherham, in the county of York, Iron Master, for an invention of "Improvements in stoves and fire-places."—Dated 14th January, 1856.

115. Vincent Scully, Esquire, and Bennett Johns Heywood, Gentleman, both of the city of Dublin, for an invention of "Improvements in the construction of inkstands; applicable in part to other vessels for the reception of fluids."—Dated 16th January, 1856.

120. John Fowler, junior, of Bristol, for an invention of "Improvements in machinery for ploughing land."—Dated 16th January, 1856.

14th January.

110. Thomas Hill Bakewell, of Welford Road, Leicester, Clerk, for an invention of "Improvements in ventilating, warming, and cooling rooms and other places."—Dated 15th January, 1856.

15th January.

114. William Prangley, of Salisbury, in the county of Wilts, Professor of Music, for an invention of "A novel instrument for exercising the third finger and thereby facilitating the playing upon musical instruments."—Dated 16th January, 1856.

122. Henry R. Worthington, of the city of New York, United States of America, for an invention of "A machine for measuring the flow of liquids, called a fluid metre." — Dated 16th January, 1856.

Erratum in Journal of 7th January.

2917. For "drawing air" read "drawing hair."

FOREIGN PATENTS.



PRUSSIA.*

List of Patents for Invention Delivered between the 1st and 31st December, 1858.

(*Communicated by the Minister of Commerce and Public Works.*)

1. Carl Eduard Bornardel, of Berlin, for "Means of stretching and holing cards for jacquard machines."—5 years.—Dated 1st December, 1858.
2. J. H. F. Prillwitz, of Berlin, for an imported invention of "An apparatus in presses, used in manufacturing leaden pipes, for tinning the latter."—5 years.—Dated 1st December, 1858.
3. Schwartzkopf, of Berlin, for "A machine for boring stones."—5 years.—Dated 16th December, 1858.
4. Weidtmann, of Dortmund, for "A mechanical apparatus for manufacturing oil-cement and other plastic substances."—5 years.—Dated 16th December, 1858.
6. J. H. F. Prillwitz, of Berlin, for an imported invention of "An apparatus for cooling the oil employed in tempering steel."—5 years.—Dated 23rd December, 1858.
7. Schaeffer and Walcker, of Berlin, for "A process for boring holes into cast-iron water pipes without interrupting the hydrostatic pressure."—5 years.—Dated 23rd December, 1858.



SAXONY.†

List of Patents for Inventions granted between the 1st October and 31st December, 1858.‡

(*Communicated by the Saxon Government.*)

(For preceding List, the No. of this Journal.)

1. Gerhard Uhlhorn, of Grevenbroich, near Cologne, for "A machine for grinding triangular or round wire points of cards."—5 years.—Dated 5th October, 1858.
2. Herrmann Böhme, of Dresden, Agent for Ossowski, of Varsovia, for "A portable vapour-bath apparatus."—5 years.—Dated 6th October, 1858.
3. Friedrich Krüger, of Sudenburg, for "Means of removing the lime from refined beetroot juice."—5 years.—Dated 9th October, 1858.
4. Eduard Florens Fleck, of Dresden, Agent for James Broadley, of Bradford, for "Improvements in power looms."—5 years.—Dated 13th October, 1858.
5. C. F. O. Winckler, of Chemnitz, for "Improvements in the arrangement of the lower ribbons or braid of spinning machines."—5 years.—Dated 14th October, 1858.
6. Louis Metzner, of Mülsen St. Niclas, for "Improvements in the manufacture of crinoline petticoats."—5 years.—Dated 14th October, 1858.
7. J. H. F. Prillwitz, of Berlin, for "Applying glass to pianinos and pianos, for the purpose of improving their tone."—5 years.—Dated 15th October, 1858.
8. Herrmann Böhme, of Dresden, Agent of Jean Gustave Larsonnier and Hyacinthe Auguste Blanche, of Paris, for "Improvements in hand printing by means of models."—5 years.—Dated 19th October, 1858.
9. Wilhelm Werner, of Dresden, for "A regulator for the manufacture of paper pulp."—5 years.—Dated 21st October, 1858.
10. Albrecht Heller and Dr. Otho Graf, of Dresden, for "Using the slags of silverworks for the manufacture of emery."—5 years.—Dated 25th October, 1858.
11. August Ferdinand Sicker and August Herrmann Schön, of Grossenheim, for "An apparatus for moving battens in looms."—5 years.—Dated 26th October, 1858.
12. F. C. Zimmermann and Ferdinand Voigt, of Dresden, for "An apparatus for condensing salts and sulphuric and nitric acids."—5 years.—Dated 27th October, 1858.
13. Herrmann Reichenbach, of Limbach, near Chemnitz, for "A machine for sewing stockings."—5 years.—Dated 27th October, 1858.
14. Zimmermann and Co., of Netzschkau, for "Improvements in sizing machines."—5 years.—Dated 27th October, 1858.
15. Friedr. Herrmann Ulbricht, of Chemnitz, and Friedrich Herrmann Voigt, of Lössnitz, for "A warping and sizing machine."—5 years.—Dated 30th October, 1858.
16. Christian Friedrich Leinbrock, of Bärenstein, for "A machine for pointing wooden pegs, and a process for polishing said pegs in a tun."—5 years.—Dated 1st November, 1858.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.
† For the Saxon Patent Law, see No. 236 of this Journal.
‡ All the published Specifications are deposited in the free Library of the Commissioners of Patents, where translations of the same may be had.

17. David Friedrich Unger, of Chemnitz, for "Improvements in his machine for working treadles."—5 years.—Dated 2nd November, 1858.

18. Siemens and Halske, of Berlin, for "A furnace for the manufacture of gas and sulphur, combined with a regenerating apparatus for the preparatory heating of the air and gas."—5 years. —Dated 6th November, 1858.

19. Carl Bruun von Niergarde, of Jarsdorf, Holstein, for "A machine for gathering in potatoes." — 5 years. — Dated 12th November, 1858.

20. Georg Koll, of Laineck, for "A break for boring by means of cables."—5 years.—Dated 23rd November, 1858.

21. Bernhard Herrmann Wilhelm Böcker, of Riese, and Henrich Eberhard Robert Thümmel, of Leipzig, for "An expeditious mode of working railway breaks."—5 years. — Dated 30th November, 1858.

22. C. W. Naumann, of Leipzig, for "A new construction of sewing machines."—5 years.—Dated 1st December, 1858.

23. August Rudolph Vogler, of Zethen, near Freiberg, for "An optical apparatus for hitting the mark in shooting at night."—5 years—Dated 3rd December, 1858.

24. Fried. Georg Wieck, of Leipzig, Agent of John and Ezra Harthan, Chester, for "An atmospheric and steam motive wheel for working machines."—5 years.—Dated 13th December, 1858.

25. Heinrich Lauten, of Hörde, Westphalia, for "A new kind of oil cans and lubricating cans." —5 years.—Dated 13th December, 1858.

26. Dr. Heinrich Meissner, of Leipzig, for Thomas Leigh, Manchester, for "An apparatus in sizing machines."—5 years.—Dated 15th December, 1858.

27. Siry, Lizars, and Co., of Leipzig, for "A new system of gas meters."—5 years.— Dated 18th December, 1858.

28. Clemens Eduard Sonneborn, of Berlin, for "A process for manufacturing cement."—5 years. —Dated 27th December, 1858.

29. Carl Heinrich Zimmermann and Carl Heinrich Werner, of Glauchau, for "The manufacture of figured chenille and apparatus belonging thereto."—5 years. — Dated 30th December, 1858.

30. Franz Louis Schwalbe, of Chemnitz, for "An improved mash machine."—5 years.—Dated 30th December, 1858.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 28th December, 1858, and each bearing that date.

No. 22,404. Frederick Ahl, of West Meriden, Conn., for an "Improved boot jack."

"I am aware that boot jacks have been made where an inflexible portion pressed on the upper surface of the foot of the boot, I therefore do not claim that, as such, as my invention, but what I claim as my invention, and desire to secure by Letters Patent, is, the within-described arrangement of the platform (A), vibrating arm (F), and cross bar (H), when the whole is constructed, arranged, and made to produce the result, substantially as herein described."

No. 22,405. James G. Arnold, of Worcester, Mass., for a "Letter envelope."

"It is evident that some variations from the above will be necessary in making the different sizes and styles of envelops, but they being governed by the above principles of construction, and producing the same results, will suggest themselves in each case; therefore I do not wish to be understood as limiting myself to the precise forms or proportions of parts shown, as I do not claim these; but what I claim as a new article of manufacture, is, making letter envelops by cutting, folding, and pasting the paper substantially in the manner and for the purposes above set forth and described. I also claim folding narrow folds at the ends or sides, so as to come inside between the face and back, in the manner and for the purposes substantially as above set forth and described."

No. 22,406. Luther Atwood, of Brooklyn, N. Y., for an "Improvement in manufacture of pyrogenic oils."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, forming oleaginous vapors from substances yielding pyrogenic oils by the action of the heat of a properly regulated current of products of combustion passing over and above the surface of the mass operated on with or without the aid of external heat, substantially as herein-before described, and for the purposes herein-before set forth."

No. 22,407. Luther Atwood, of Brooklyn, N. Y., for an "Improvement in apparatus for destructive distillation."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, viz., the combination and arrangement of a 'distilling tower,' and receiving vessel, substantially as herein-before described, with a steam blast or its equivalent in the combination for the purpose of producing an induced current, substantially in the manner and for the purposes herein described and set forth."

No. 22,408. Luther Atwood, of Brooklyn, N. Y., for an "Improvement in apparatus for destructive distillation of wood, &c."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, first, the use of the inner case V, in the manner and for the purposes substantially as herein-before set forth. Second, the within-described arrangement of the flues N, leading from the annular passage E, into the distilling tower A, substantially and for the purposes herein-before set forth. Third, the combination with the distilling tower of the combustion

chamber or fire place A^1, when so arranged as to supply products of combustion by a downward draught through the fire place, substantially as herein-before described."

No. 22,409. William W. Batchelder, of New York, N.Y., for an "Improvement in lamps."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United States, is, the small tapers or wick tubes D, placed on both sides of the flat burner or wick tube C, in combination with the cap A, when the said tubes and cap are used without a chimney, substantially as set forth for the purposes described."

No. 22,410. William A. Bradley and Jacob Bigelow, of Washington, D. C., for an "Improvement in manufacture of artificial fuel."

"What we claim as our invention, and desire to secure by Letters Patent, is, the manufacture of artificial fuel made from refuse bituminous coal, anthracite, or charcoal, as set forth, combined with the substances herein described, the whole made in the manner and for the purposes set forth."

No. 22,411. Job Brown, of Lawn Ridge, Ill., for an "Improvement in grain measure."

"I am aware that tallying machines have been previously used and arranged in various ways, and I therefore do not claim broadly such device irrespective of the particular arrangement of parts herein shown and described; but I claim as new, and desire to secure by Letters Patent, as an improved article of manufacture, a grain tally having a slide H, operated by a pendant g, and spring I, a lever F, pall E, ratchet wheel D, and indicating bolt C, the whole combined and arranged as herein shown and described."

No. 22,412. John W. Cochran, of New York, N. Y., for an "Improvement in revolving fire-arms."

"Having thus fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, 1, the hinged or jointed thumb piece of the hammer or cock, constructed and arranged, and having the functions substantially as herein set forth. 2, I claim the worm wheels upon the cylinder shaft and the tumbler shaft or hammer shaft, combined and operated as and for the purposes described. 3, I claim the means substantially as herein set forth for allowing the cylinder to be rotated within its frame, independent of the shaft of the hammer or tumbler, and also allowing of the detaching of the cylinder and its shaft from the frame and from the means of rotation."

No. 22,413. Wright L. Coffinberry, of Grand Rapids, Mich., for an "Improved compensating pendulum for clocks."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of two metals of different expansibility in the manner and for the purposes set forth in the foregoing specifications."

No. 22,414. S. R. Cotton, of Green Bay, Wis.' for a "Printing press."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, operating the form bed J, from the pressure cylinder B, by means of the cam or eccentric m, provided with the pin o, rack bar D, provided with the projection p, and roller n, the pinions E, G, on the shaft F, with or without the pinion H, slide bar L, and spring S, and the rack bar I, the whole being arranged to operate as and for the purpose set forth. I also claim the toothed sector x^1, which gears into the pinion y of roller a^1, and is connected with the rack bar D, by means of the slotted arm t, on the rack bar and the arm w, of the sector, provided with the pin o, the rod c^1, attached to the arm d^1, the pall i^1, attached to the arm d^1, and the ratchet h^1, attached to the roller g^1, the whole being arranged as herein-after fully shown and described, so that the inking device will be operated automatically from the pressure roller. I further claim having the bearings b, b, of the pressure cylinder attached to rods d, d, which are connected by tension nuts e, e, to straps f, that encompass the eccentrics g, of the shaft h, for the purpose of readily raising when necessary the cylinder B, and regulating its pressure."

No. 22,415. Francis M. Eagle, of North Manchester, Ind., for an "Improvement in stump extractors."

"I do not claim any construction in which the movement of the stump is the same as that of the power; but what I do claim is, overcoming the resistance by the movement of a roller invariably connected with the stump substantially as described upon a track either rectilinear or curved, all parts of which, except the starting part of the roller, are exterior to a circle with the invariable connection for a radius, and the point of attachment of the hook for a center, the operation being substantially as described."

No. 22,416. Nelson Edwards, of Chittenden County, Vt., for an "Improvement in stoves."

"What I claim as new and useful in my invention, is the application to a stove of an improved combined hydro-atmospheric jet, and gas chamber. I also claim the stove-contained coiled smoke-pipe in its combination with the plurality of stove walls substantially as described."

No. 22,417. H. E. Fessel, of Chicago, Ill., for an "Improved steering propeller."

"I do not claim the invention of applying a screw propeller in such a manner that its position can be changed to make it operate as a rudder; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the slotted frame A, propeller F, driving shaft C, and chain wheel i, substantially as and for the purpose herein shown and described."

No. 22,418. Joseph Fowler and F. M. Bacon, of Ripon, Wis., for an "Improvement in seeding machines."

"We do not claim the board J, nor the roller G, for they have been previously used, and may be seen in our patented machine previously alluded to; but having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the reciprocating perforated slide E, stationary perforated slide H, and perforated roller G, in connection with the inclined board J, the whole being arranged to operate as and for the purpose set forth."

No. 22,419. Patrick Gallagher, of Pleasant Unity, Pa., for an "Improved spring bottom for chairs and other seats.

"Having thus fully described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is, making the bottoms of chairs or other seats, of spring-plate metal, so that when laid loosely upon the frame, said plates shall be both a bottom and a spring, substantially as herein set forth."

No. 22,420. A. F. Gibbony, of Union Township, county of Mifflin, Pa., for an "Improvement in shuttle boxes for looms."

"Claim:—What I claim as my invention, and desire to secure by Letters Patent, is, the half swell D, on the inner end of the fly A, to be operated on by the picker F, as set forth."

No. 22,421. Porter A. Gladwin, of Pawtucket, Mass., for an "Improved sash fastener."

"What I claim, therefore, and desire to secure by Letters Patent, is, the employment of the perforated plate D, with the notch spring F, for fastening window sash, in the manner substantially as described."

No. 22,422. James Hamilton, of New York, N.Y., for an "Improved propeller for boats."

"I do not claim a reciprocating propeller frame between the vessel; neither do I claim buckets hinged at their upper edge, nor moveable stops, against which the buckets rest while in action; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of two sets of propeller buckets in a reciprocating frame, so set that they act in opposite directions to give head or stern way respectively, when said buckets are combined with sliding stops fitted and acting as specified, to retain one set of buckets in a folded and inoperative position, while the other set is acting to move the vessel, as set forth."

No. 22,423. Henry Harger, of Delhi, Iowa, for a "Mechanical typographer."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, the employment or use of the bed-piece B, frames D and C, and type frame formed of the plates E, E, arranged substantially as and for the purpose set forth. 2nd, the particular means employed, as herein shown and described, for feeding the frame C, and paper or wax to the type, to wit, the bent lever G, connected to the hand lever F, the ratchet H, and cords or chains O, attached to the frame C. 3rd, regulating the feed

movement of the frame C, by having the types *h* made of varying hights or lengths, so as to give corresponding lengths of vibration to the lever F, substantially as described."

No. 22,424. THOMAS R. HARTELL, of Philadelphia, Pa., for an "Improvement in furnaces for burning lime."

"I do not claim broadly a reverberatory furnace, arranged to receive a movable platform or truck, containing the articles or material to be acted upon by the heat of the furnace, as such a device has heretofore been used in the manufacture of glass, but I claim and desire to secure by Letters Patent, as an improvement in reverberatory furnaces for burning lime, providing a recess in the side walls, in which a corresponding projecting edge of the fireproof traveling platform fits, in the manner described, for the purpose of cutting off all communication between the heated upper chamber and the cool lower chamber, at the same time presenting no obstruction to the forward movement of the truck and platform."

No. 22,425. SPENCER HIATT, of Indianapolis, Ind., for an "Improved lock."

"What I claim, and desire to secure by Letters Patent, is, 1st, the combination and arrangement of the tumblers 1, 2, 3, 4, 5, 6, 7, and 8, and key bits 9, 10, 11, 12, 13, 14, 15, and 16, with the lever A, sliding yoke Q, and lever arms V and K, when constructed and arranged substantially as set forth; 2nd, the combination of the comb spring M and slide R with the tumblers 1, 2, 3, 4, 5, 6, 7, and 8, when constructed, arranged, and operated, substantially as and for the puposes set forth."

No. 22,426. JOHN HOLMES, of Boston, Mass., for an "Improvement in ladies' hooped skirts."

"What I claim as my invention, and desire to secure by Letters Patent, is, the net work fabric herein described, having the number or size of its meshes reduced towards the top, in such a manner as to throw the fulness in one direction or on one side, so that when the hoops are inserted it is self-sustaining, to produce the 'bishop' or 'bustle' form, and preserve that form to the bottom of the skirt, as herein set forth, without the use of lacings, springs, extra 'bustles,' or other contrivances."

No. 22,427. JOHN W. HOLLENSBURY, of Alexandria, Vir., for an "Improvement in breech loading cannon."

"Having thus described my invention, what I claim and desire to secure by Letters Patent, is, a breech loading cannon, formed in two parts, and secured together by means of a frame, substantially as described. 2nd, in combination with the two divisions of the cannon, as described, I claim, the frame D, E. F, G, fitting closely up against the breech A and capable of being elevated or depressed, the whole constructed and operated, substantially as and for the purpose set forth. 3rd, in combination with the two divisions of the gun, I also claim the band or circular wedge W, constructed and operated substantially as described."

No. 22,428. EDWIN B. HORN, of Boston, Mass., for an "Improved method of adjusting the tripper to the escapement lever of time keepers."

"I do not claim a compensating scroll or coil D, composed of two metals of variable expansive properties, and applied to a hair spring balance, but I claim the movable plate F, or its equivalent, supported so as to be capable of turning on a pivot, or its equivalent, carried by the stand, the same being for the adjustment of the beat, or the pin or tripper of the escapement lever, as specified."

No. 22,429. THOMAS S. HUDSON, of East Cambridge, Mass., for an "Inkstand."

"I do not claim an inkstand composed of a main ink reservoir, and a cup or ink receiver furnished with a tube, and connected with the main reservoir by a flexible or elastic diaphragm, as such is not new, nor do I claim in combination with the ink reservoir or cup B, and its cover D, mechanism substantially as described, whereby, by the act of elevating the cover off the cup, the latter shall be depressed so as to cause ink to flow from the reservoir upward into it, and by the act of depressing the cover toward the cup the ink will be caused to flow back into the reservoir; but I claim the arrangement of a vent hole *i* within the flexible or elastic diaphragm C, and with respect to the ink receiver B, essentially in manner and to operate as described, and for the purpose herein-before explained."

No. 22,431. SAMUEL HUSE and SAMUEL HUSE, jr., of Chicago, Ill., for an "Improved propelling and steering apparatus."

"Claim.—What we claim as our invention, and desire to secure by Letters Patent as an improvement in propellers when hung within the rudder, and operated by gears E, F, G, as set forth, is, receiving the end thrust of the propeller shaft upon the sleeve I, on the post B, arranged and operating in the manner substantially as described."

No. 22,432. OBED HUSSEY, of Baltimore, Md., for an "Improved spring tackle block."

"I am aware that springs have been interposed between blocks and the fixed or movable eye bolt or body to which they were attached; such an arrangement of a spring without the block is obviously an essentially different thing from any improved block with a spring within it. Of course I do not confine myself to any special form or arrangement of the strap and the block, or of either (as these may be indefinitely varied), so long as the block is constructed with a seat to yield to the force of sudden shocks, and thereby prevent the dangerous jirks which, as before described, it is the object of my invention to prevent. What I claim as new, and desire to secure by Letters Patent, is, a block having a yielding seat, substantially as set forth."

No. 22,433. JOHN K. JENKINS, of Kingston, Pa., for an "Improvement in preserving fruits."

"I am aware that the mode of preserving such articles by encrusting them with a composition impervious to the air, and which will prevent their desiccation and decay, is not new. Robert Warington obtained March 5th, 1846, a Patent in England for the use in this manner of many such compositions; I do not wish, therefore, to claim broadly this mode; but what I do claim as my improvement, and desire to secure by Letters Patent, is, dusting the article to be coated with any dry powder, such as plaster of paris, or its equivalent, to prevent the coating from adhering to the articles coated, and permitting it to come off readily."

No. 22,434. WILLIAM H. LAUBACK, of Philadephia, Pa., for an "Improvement in gas retorts."

"I do not desire to confine myself to the particular form of the retort illustrated, or to the exact shape of the plate D, in as much as both may be considerably modified in shape, without any deterioration of the result; but I claim, and desire to secure by Letters Patent, dividing the retort into an upper and a lower chamber by means of a movable plate D, said plate being so constructed and so arranged in respect to flanches or projections in the retort, and being so weighted that the amount of vapor admitted into the communication between the two chambers shall be proportionate to the rapidity with which it is generated, and that the vapor shall pass from the lower chamber in a stream so attenuated and so exposed to red hot surfaces as to insure its being converted into permanent gas on entering the upper chamber, as herein set forth."

No. 22,435. TRISTRAM S. LEWIS, of Kendall's Mills, Me., for an "Improved clothes horse."

"The arrangement of the four spring catches is such that the spring *k* while operating to press the horse open and to maintain it in an extended state when unfolded, will also operate to maintain all the catches in engagement with their respective slats; therefore, when the posts A, B, are hinged together, and the four folding sets of slats are applied to them and arranged on them, as described, I claim the arrangement of the spring *k* and the two sets of spring catches *f*, *g*, *h*, *i*, in order that the said spring may perform at one and the same time the two functions, as specified."

No. 22,436. W. W. LYMAN, of West Meriden, Conn., for an "Improvement in fruit cans."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with the groove for receiving and holding the packing and the flange *m* on the cover, fitting into said groove and against the packing, the sleeve C, with its cam slots and the studs on the neck of the can, for drawing the flange of the cover tight down on to the packing without crimping it, substantially in the manner specified."

No. 22,437. HOWARD MANN, of East Attleborough, Mass., for an "Improvement in cultivators."

"1st, I claim the application of each wheel arbor to its wheel, and the frame A, substantially as described, viz., so that the wheel may turn on the arbor and the latter extend into slots, and have fastenings as explained, whereby not only the wheel may be adjustable with reference to the cutters,

but the arbor and its screws and nuts may be employed to strengthen the frame, in manner as set forth. 2nd, I also claim the above described arrangement of each of the slots of the wheel arbor with respect to the scraper of the periphery of the wheel, whereby the wheel at whatever altitude it may be placed, while its arbor is in the slots will be at one uniform or proper scraping distance from the scraper. 3rd, I also claim the application or arrangement of the slide bar of the cutter G, so as to operate not only as a scraper to the wheel, but as a supporter of the cutter post or rod."

No. 22,438. F. M. Marshall, of Sequin, Texas, for an "Improvement in seed planters."

"Claim:—Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of perforated plates A^1 and B, beam A, guage wheel B, bull tongue plow S, roller F, crank H, arm D, and handles K, K, the whole be constructed for joint operation as set forth and described."

No. 22,439. David Matthew, of Philadelphia, Pa., for an "Improvement in locomotive axle bearings."

"I am well aware that it is common to use a crease in journal bearings, for purposes in connection with lubrication, but they have no such effect nor construction as mine, and I do not wish to be mistaken as using a mere modification of such crease, or as claiming any such arrangement or device; but what I do claim as my invention, and desire to secure by Letters Patent, is, the peculiar construction of journal box or bearing in one piece, having a longitudinal slot or opening, operating as and for the purpose substantially as herein set forth."

No. 22,440. S. W. May, of Galesburg, Ill., for an "Improvement in machines for picking corn."

"I claim the bars L, the elevators E, the fingered belt R, the frame A, the crank with its pitman O, or their mechanical equivalents, the whole being combined, arranged, and operated substantially as and for the purpose set forth."

No. 22,441. Thomas J. Mayall, of Roxbury, Mass., for an "Improved door spring."

"Claim:—What I claim as my invention, and desire to secure by Letters Patent, as a new article of manufacture, is, the within described india-rubber tortion door spring operating as described."

No. 22,442. Charles McIntire, of Newark, New Jersey, for a "Shirt stud."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the latch and catch constructed substantially in the manner and for the purpose herein above set forth."

No. 22,443. Anne S. McLean, of Williamsburgh, N.Y., for an "Improvement in corsets."

"I disclaim looped fabrics of any kind for the purpose of forming the shield or top of the pad next to the outer dress. Neither do I claim the manufacture of eyelet hooks, as they are in common use; but what I claim as novel, and wish to secure by Letters Patent of the United States, is, providing the upper section or pads of the corset with cone-shaped flat steel or their equivalent springs and spring supporting plate next the body, for the purpose of giving elasticity to the pads, which pads are held in their places by the weight of the corset."

No. 22,444. Richard Montgomery, of New York, N. Y., for an "Improvement in iron pavements."

"Having described my improved pavement, what I claim as new in this application, and desire to secure by Letters Patent, is, a metallic pavement, consisting of a series of parallel arched corrugations, reaching or extending from the curbstone on one side of the street to the curbstone on the other side, substantially as shown and described. I also claim casting or making the upper parts of the corrugations thicker than the lower parts, in the manner and for the purpose set forth. I also claim supporting or anchoring the pavement when it is cast in sections by a grooved central support as shown and described. I also claim the dovetailed recesses and projections *k*, in combination with the projection *b*, *c*, for the purpose of holding the pavement in place."

No. 22,445. Henry Morris, of West Philadelphia, Pa., for an "Improvement in device for transmitting rotary motion."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the convolute gear A, and convolute groove *b*, with a sliding pinion or gear C, substantially as and for the purposes herein shown and described."

No. 22,446. John Murphey, of Boston, Mass., for an "Improved blind fastener."

"I do not claim the windowblind or shutter fastener; shown and described in the United States Patent, No. 4,633, but I claim the arrangement of the spring catch on the pintle step shank, and with respect to the notched pintle as described. I also claim combining with the catch and its case a movable projection or cover, applied so as to be capable of being moved on and off the pintle head, and to carry the thumb projection or stud of the catch, substantially in manner and for the purpose as specified."

No. 22,447. Peter H. Niles, of Boston, Mass., for an "Improved lathe for turning masts, &c."

"Claim:—What I claim as my invention, and desire to secure by Letters Patent, as an improvement in machines for turning masts and spars, is, the revolving traversing cutters, in combination with the dogs *s*, or their equivalents, for supporting the stick of timber, operating in the manner described for the purpose set forth. 2nd, I claim raising the dogs automatically as the cutters approach them for the purpose set forth. 3rd, I claim the method of controlling the position of the cutters by means of the combination of the slotted wheels D and L, the gears P, Q and R, and the pattern W, and their connections M, M^1, N, O, T, V, operating in the manner substantially as set forth."

No. 22,448. James Nuttall, of New Orleans, La., for an "Improved construction of iron railing."

"I do not claim broadly dovetail connections, as such is not the scope of my invention; but what I do claim, is, the the combination of bent sheet metal rails, with grooves in the panels receiving the edges of the rail, and giving an internal and external bearing to the rail, substantially as set forth."

No. 22,449. Jacob Pefley, of Bainbridge, Ind., for an "Improved lathe machine."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the reciprocating knife K, the bolt supports or bars R, and the stationary bar or bed Y, arranged to operate substantially as and for the purpose set forth. I also claim the shaft H, provided with the bent rods *h*, and connected or arranged with the rock shaft V of the bars R, R, through the medium of the levers Q, R, bars S, R^1, and the arm U, substantially as and for the purpose set forth. I further claim, in connection with the knife K, bars R, R, and bed Y, the registering device, operated from the rock shaft V, through the medium of the pall i^1 connected with the lever C^1, rod k^1, and bent lever l^1, so as to be thrown in contact with the ratchet A^1 by the bolt $a\times$, as set forth."

No. 22,450. James Pilgrim, of New Britain, Conn., for an "Improvement in cores for moulding plastic substances."

"It is obvious that my improved core may be made of any desired form and size, and of various materials, without departing from the nature of my invention, though for its formation I have found the india-rubber cloth in practice most desirable. It will also be observed that my improvement is particularly applicable and advantageous in the construction of composition cisterns and other formations where the orifice through which the core has to be extracted is much smaller than the cavity formed, since a core thus constructed may be entirely collapsed and drawn through a very small hole; I do not, therefore, desire to limit myself to any particular form of core or material of the same, or to any exact arrangement of the inflating and exhaust devices; but I claim as my invention, and desire to secure by Letters Patent, constructing cores for molding in plastic clay, cement, or other like substances, of india rubber, or equivalent material, so that they be inflated and collapsed substantially as described."

No. 22,451. Ezra Pollard, of Albany, N. Y., assignor to himself and B. W. Seeley, of New York, N. Y., for "Pestles for cleaning clothes."

"I do not claim a pestle formed of a series of parallel and solid cylindrical projections fitted in a head or stock, for that, or its equivalent, has been previously used; but having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a clothes pounder or pestle composed of a stock A, handles C, tubes D, and openings *a*, as herein shown and described."

No. 22,452. James S. Ray, of East Haddam, Conn., for an "Improved burnishing attachment for lathes."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, the arrangement and combination of the plate E, plate F, spring (K), mandrel C, and tool G, as and for the purposes herein shown and described."

No. 22,453. Jesse Reed, of Marshfield, Mass., for an "Improved steering apparatus."

"What I claim as my invention, and desire to secure by Letters Patent, is,—First, the duplex screw shaft E, in combination with the nuts G and guide rods H, the rods being each permanently connected with one of the nuts and passed through the lug d^2 on the other nut, and operating in the manner substantially as specified. Second, I claim, in combination with the above, connecting the nut G to the rudder head by means of the arm I, bulb K, and rod *b*, operating substantially as described."

No. 22,454. Uel J. Reynolds, of Webster, N. Y., for an "Improvement in trace fastenings."

"I do not claim the face plate A or bolt and spiral spring E as new; but what I do claim as my invention, and which I desire to secure by Letters Patent, is,—1st, I claim the formation of the eye *d* which receives the tongue *e*, for the purpose above described and set forth. 2nd, I claim the tongue *e* in combination with the tube *c*, spiral spring and bolt E, which fastens tongue *e* in the eye *d*, as above described."

No. 22,455. John W. Rice, of Springfield, Mass., for an "Improvement in railroad car brakes."

"What I claim as new, and desire to secure by Letters Patent is, 1st, the suspension bar H, crotch bolt I, and nut J, when arranged and operating in the manner and for the purposes substantially as described. 2nd, I claim the continuous rod V and loose pulley K, in combination with the suspension bar H and crotchet bolt I, and nut J, when arranged and operating substantially as and for the purposes set forth. 3rd, I claim the loose collars P, P, on the standard (*q*), when applied in the manner and for the purposes substantially as set forth."

No. 22,456. Oliver Robinson, of Rochester, N. Y., for an "Improved bedstead fastening."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the hooked locking bolt A, with the circular wrench and eccentric B, constructed as described, for holding the bolt by means of the lip i^1 in the proper position for entering the post and tightening the connection made with the pin *f*, or its equivalent, substantially as and for the purpose herein set forth."

No. 22,457. Henry R. Rowlands, of Boston, Mass., for an "Improved apparatus for walking on the water."

"What I claim as my invention, and desire to secure to my own benefit by Letters Patent, is, the construction and use of the apparatus by the arrangement of the metal floats *o*, *o*, the metal ballast boards *m*, *m*, and the wooden stanchions H, H, in a manner substantially as and for the purpose herein described."

No. 22,458. James Stewart, of New London, Conn., for an "Improved dredging machine."

"I believe I have described and represented my dredging machine so as to enable any person skilled in the art to make and use it; I will now state what I desire to secure by Letters Patent. I claim the arrangement of the three serries of dredging buckets in the same dredging machine, substantially as described and shown, for the purpose of excavating a channel in the earth throughout the entire width of the boat. I claim arranging the windlass barrels which raise the dredging apparatus out of the water on the same shaft that operates the dredging chains, so that they may be locked to the shaft to raise the dredging apparatus without stopping the chains of dredging buckets, substantially as described."

No. 22,459. O. W. Stow, of Southington, Conn., for an "Improved burring machine."

"I do not claim the rollers G, H, nor the manner of adjusting the upper roller H; nor do I claim the gauge I, in itself considered, nor the manner of adjusting the same on the lower roller G by the screw rod J, for these parts are well known, and have all been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the spring K, gauge I, and rollers G, H, substantially as and for the purpose herein shown and described."

No. 22,460. Samuel T. Stratton, of Philadelphia, Pa., for an "Improvement in manufacture of starch."

"Having now described the nature of my invention, and the manner of rendering my process practical, I disclaim the use of cold alkalies or alkaline liquors for steeping the material. What I claim as new in the manufacture, and desire to secure by Letters Patent, is, steeping the material from which the starch is extracted (either whole or crushed) in an alkaline or caustic alkaline liquor of a suitable strength, and artificially beaten to a temperature of from seventy to a hundred and thirty degrees Fahrenheit thermometer, as herein-before specified."

No. 22,461. George W. Swigert, of Monmouth, Ill., for a "Washing machine."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a washing machine provided with a cylinder of brushes C, a concave J, supported on springs (*d*), guard K, attached to rod (*e*), pounders L, tappet drum M, and otherwise constructed as herein shown and described."

No. 22,462. Nathan Thompson, jr., of Brooklyn, N.Y., for an "Improvement in rail road car seats and couches."

"I claim as of my own invention,—First, the combination of longitudinal seats with a raised platform and berths or reclining places beneath the seats and platform, substantially in the manner described. Second, in combination with berths or reclining places beneath a seat, and a raised platform serving as a footstool to such seat. I claim a back to that seat capable of being moved or of change of place, substantially as specified, so that it may serve at will as a back or as a couch above the main seat. Third, I claim making the top of the platform or foot place pertaining to the main tier of seats movable, substantially in the manner and for the purposes specified. Fourth, I claim arranging within a rail road car longitudinal couches along or upon the floor, and other couches or seats above these, with backs which may be converted into couches and passage ways, or a passage way from which free access may be had to all the seats and couches, the arrangement of the whole being substantially such as set forth. Fifth, I claim combining with longitudinal passage ways or a longitudinal passage way longitudinal seats when those seats have backs so constructed, substantially as specified, that they may be converted into couches, or when those seats are free to slide transversely, substantially in the manner described, the combination as a whole being as herein-before set forth. Sixth, I claim adjustable or movable end seats, substantially such as described, and serving, if necessary, as steps, in combination with longitudinal car seats, having backs capable of conversion into couches, substantially in the manner specified."

No. 22,463. Charles N. Tyler, of Washington, D.C., for an "Improvement in apparatus for generating illuminating gas."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—First, the peculiar arrangement and combination of the retort for generating the hydrogen gas with the main retort, for the generation of the illuminating gas, substantially as set forth. Secondly, elongating and contracting the rear end of the main retort, in the manner and for the purposes substantially as set forth. Thirdly, connecting the rear end of the hydrogen retort with the contracted end of the main retort, in the manner and for the purposes substantially as set forth."

No. 22,464. William P. Uhlinger, of Philadelphia, Pa., for an "Improved closet for sewing machines."

"Having now described the nature of my invention, I wish it to be understood that I am aware that sewing machine stands have already been made with a view to hide the machine from sight, when standing idle, which end is in those accomplished by means of a separate covering or cap, the platform of the machine being stationary; but this I do not claim. I think, however, it must be evident from the foregoing description that parts of my improved sewing machine closet may be modified, or equivalents substituted without impairing my invention, as, for instance, an arrangement of levers, or of gearing, may be employed in place of the cords or chains and pulleys described, all of these being

well known mechanical devices, and in this instance giving the same result; or the platform G, may, instead of sliding bodily up and down, be made to turn on pivots. I therefore do not desire to confine myself to the described construction or combination of the various parts in every minutia; but what I claim, and desire to secure by Letters Patent, is, combining the sewing machine platform G with the lid B of the closet, that the opening and shutting of said lid shall operate the platform G, substantially in the manner and for the purpose set forth."

No. 22,465. SINOURNEY WALES, of Boston, Mass., for an "Improvement in burners for vapor lamps."

"I claim when the wick is supported on and around an inner wick tube, and within an outer wick tube, and the jet cap is made separate from and so as to screw or fit on the outer wick tube, as described, the application of a rod F to the movable jet cap D and the inner wick tube E, in such manner as to be fastened to the cap D, and extend into and fit the bore of the tube E, so as not only to enable the jet cap to be raised and supported above the wick, in manner to allow such wick to be inflamed, and the flame thereof to heat the said jet cap and rod, but to serve as a means of conducting heat from the jet cap into the inner tube, by which such heat may be conducted into the wick, in order to aid in vaporizing the liquid contents thereof."

No. 22,466. WILLIAM WHITE, of Newark, N.J., for an "Improvement in making edge tools."

"I am aware that ingots of steel and iron are now formed by pouring the melted liquid into molds, I do not claim for the purpose of forming the ignot. I do not claim the manufacture of iron or steel, nor the remelting of the same either new or old; but what I claim as my invention, and desire to secure by Letters Patent of the United States, is, the use of wrought iron and steel, separately or combined, while in a melted or liquid state, for the purpose of forming into shape axes and other articles, without the process of forging, welding, or swaging, by the use of a mold, the cavity of which is the shape or form of the article desired, as set forth in my specification."

No. 22,467. OLIVER EVANS WOODS, of Philadelphia, Pa., for an "Improved life preserving trunk."

"I do not confine myself to the precise form of valise represented in my drawings, but the same construction may be applied with equal advantage to all kinds of trunks; the stays may be placed upon the inside or the exterior of the valise or trunk, as may be found most desirable. Having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a valise or trunk, made substantially as herein shown and described."

No. 22,468. WILLIAM A. WOOD, of Hoosick Falls, N. Y., for an "Improvement in the cutting apparatus of harvesters."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, the manner herein described of constructing the guards and uniting them to the finger bar, as set forth."

No. 22,469. GILBERT YATES, of West Dresden, N.Y., for an "Improved door fastener."

"I am aware that there is quite a number of fasteners already patented, all of which I disclaim; but what I claim as my invention, and desire to secure by Letters Patent, is, a door fastener, constructed of the pieces A, A^1, A^{11}, bolt B, keeper C, and slot D, operating as herein set forth."

No. 22,470. JOSEPH L. CHAPMAN, of Philadelphia, Pa., assignor to himself and George Chapman, of said Philadelphia, for an "Improved turnbuckle for window blinds."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the turnbuckle F, and sliding collar D, provided with the flanch *b*, and the spring E, placed on the spindle or arbor A, the whole being arranged to operate substantially as and for the purpose set forth. I also claim, in combination with the above-named parts, the washer C, placed on the arbor A, for the purpose set forth."

No. 22,471. GEORGE L. DULANEY, of Mount Jackson, Va., assignor to himself and Solomon K. Moore, of said Mount Jackson, for an "Improvement in railroad car seats"

"What I claim as new, and desire to secure by Letters Patent, is, the combination and arrangement of the movable seat bottoms C, hinged folding cushions G, sliding slat blind frames H^1, and hinged cushioned frames I, and cushioned flaps K, L, on the backs E of the seats, and slides or panels M."

No. 22,472. SAMUEL EAKINS, of Philadelphia, Pa., assignor to himself and M. S. Wickersham, of said Philadelphia, for an "Improvement in method of blasting or removing submarine bodies."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination with a piece of ordnance, to be employed under water for the removal of rocks or other bodies by the operation herein described of a series of adjustable legs applied and operating, substantially as and for the purpose herein specified."

No. 22,473. CARLOS W. GLOVER, of Farm Ridge, Ill., assignor to himself, Bronson Murray, and J. Van Doren, of La Salle County, Ill., for an "Improvement in stacking agricultural products."

"Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is, making a stack out of two, three, four, or more lengths of straw or other material, that overlap, or break joint with each other, and which are laid with their seed ends pointing to a common center, and commencing at the apex and ending at the base, and drawn together and secured substantially as herein represented, using as a foundation to build upon an apron, or the binding cords or chains, as set forth."

No. 22,474. HARLEY STONE, of Blackstone, Mass., assignor to Paul P. Todd, of said Blackstone, for an "Improved expanding bit."

"I claim the mode and application of the slide cutter B, the slits C and D, the bolt E, and the graduated scale F, *f*, and constructed and operating as above set forth and described."

No. 22,475. JOHN VAN DOREN, of Farm Ridge, Ill., assignor to himself, Bronson Murray, and Carlos W. Glover, of La Salle Co., Ill., for an "Improvement in stacking agricultural products."

"Having thus fully described the nature of my invention, and how it differs from what has heretofore been done; what I claim as new, and desire to secure by Letters Patent, is, the so placing of two, three, or more layers of stalks or straws in a box or former as that they shall break joint with each other, beginning at the apex and so continuing until one half of the stack is formed, and then reversing the operation and laying them from the base to the apex for the other half of the stack, so that when bound up they shall form a stack shingled on its outside to protect the interior, substantially as herein described and represented."

No. 22,476. MOSES WRANGLE, of New York, N.Y., assignor to Hunter, Keller, and Co., of said New York, for an "Improved cast iron mercury bottle."

"Having thus described my mode of forming iron bottles, what I claim, and desire to secure by Letters Patent, is, moulding iron mercury bottles with concave bottoms, by means of the patterns, substantially as herein described."

RE-ISSUES.

JOSEPH A. BRADEN, of La Grange, Geo., for an "Improvement in shears."—Patented 21st September, 1858.—Re-issued 28th December, 1858.

"Claim.—I claim the construction of scissors or shears with their blades in separate pieces from the handles, and fitted to the handles with stems and sockets."

GEO. CROMPTON, of Worcester, Mass., for an "Improvement in looms for weaving figured fabrics."—Patented 11th November, 1854.—Re-issued 28th December, 1858.

"Claims.—I claim, combining with hook jacks which are connected with the harness, and with the mechanism for operating them to open the shed, a pattern chain or cylinder constructed with two or more patterns, and operated so that either of the patterns can be made to act on the hook jacks, to place them in the required position, to be operated upon by the mechanism for opening the shed. I also claim, in combination with a pattern chain, arranged with two or

more patterns in the direction of its length, the mechanism for changing the movements of the chain to effect the changing of the pattern. I also claim placing two or more patterns upon the rods of a pattern chain side by side, and operating them in succession by vibrating the chain laterally. I also claim pivoting the lifting and depressing rods at one end, the other being made adjustable. And I also claim moving the rods or jacks out of contact with the rollers on the pattern chain before the chain is moved by means of what are termed the vibrating fingers, or the equivalents thereof."

J. L. Sutton, of Norristown, Pa., for a "Steam stove."—Patented 20th July, 1858.—Re-issued 28th December, 1858.

"Claim.—I claim combining two or more concentric chambers, connected together and arranged in respect to each other with a boiler attached to an ordinary stove, for the purpose specified."

H. A. Harvey, of New York, N. Y., assignee through mesne assignment of Thos. W. Harvey, late of said New York, for an "Improvement in machinery for cutting screws."—Patented 30th May, 1846.—Re-issued 28th December, 1858.

"Claims.—The combination and arrangement of two inclined rollers, one or both rotating, and placed at a sufficient distance apart, to permit the shanks of the blanks to hang therein freely suspended by their heads, and for the purpose of arranging the blanks (when presented in a promiscuous mass) all in a row with their heads up, and causing the row to travel towards the lower end, and to be delivered one by one. Second.—Combining with the delivery end of the inclined rollers, or equivalent ways, for supplying the blanks in order, a delivery and check slide, and a receiving and conducting tube, or equivalent therefore, to receive the blanks from the row, deliver them one by one, and conduct them to the place where they are required for after operations, and at the periods required. Third.—Combining with the receiving and conducting tube a transferer, or equivalent therefor, to receive the blanks from the conductor, and transfer them to the mandrel or place where they are to be subjected to the cutting action. Fourth.—Combining with the mandrel or spindle, and with suitable means for holding the screw blanks in line, a sliding twin screw and spring, or equivalent therefor. Fifth.—Governing the motions of the chaser toward and from the axis of the blank by combining the chaser head with a carriage and sway bar moved by a cam, and also connecting one end of the sway bar with an adjusting slide, when this is combined with a chaser or chaser head, whereby the amount of taper to be given to the screw can be regulated at pleasure. Sixth.—Changing the directions of the various cam grooves by means of sliding switches, operated by sliding rods within the hollow cam shafts, and shifted by an index cam, by which the various changes of the motions of the machine are effected. And finally.—Making the cam which operates the sway bar adjustable on its shaft, for the purpose of adjusting the motions of the chaser to the length of the blank, to insure the proper formation of the point of the screw."

J. R. Foster, of Boston, Mass., assignee of A. H. Wood, for an "Improvement in gas burners."—Patented 21st September, 1858.—Re-issued 28th December, 1858.

"Claims.—First, the flame spreader, consisting of the ring pieces, extending outwardly from the gas orifice. Second, I claim the heaters, combined with the jet gas burner. Third, I claim, combining with the jet gas burner a draft cone, the top of which terminates at or near the level of the gas orifice."

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London,
W.C.

List of Specifications, &c. published during the week ending 14th January, 1859.

No.	Price.	Subject-Matter.
1276	3*d.*	Traction and other engines, &c.
1277	1*s.* 3*d.*	Machinery for cutting, collecting, and spreading grass, &c.
1278	6*d.*	Apparatus for applying lime, soot, and other matters to turnips and other crops, &c.
1279	3*d.*	Apparatus for decomposing fatty substances.
1280	10*d.*	Apparatus for sizing fibrous materials.
1281	7*d.*	Apparatus for destroying the turnip fly, &c.
1282	4*d.*	Manufacture of bricks, &c.
1283	7*d.*	Obtaining saccharine substances from cereal and vegetable matters, &c.
1284	3*d.*	Black lead composition.
1285	3*d.*	Machinery for printing fibrous materials.
1286	3*d.*	Manufacture of artificial whalebone.
1287	3*d.*	Self-acting perforated baster.
1288	6*d.*	Stoppers for bottles or jars.
1289	3*d.*	Manufacture of copper pipes and tubes.
1290	4*d.*	Extract of Peruvian guano.
1291	6*d.*	Stoves or fire grates.
1292	6*d.*	Construction of floors, roofs, and arches.
1293	1*s.* 3*d.*	Mariners' compass.
1294	6*d.*	Thrashing machines.
1295	9*d.*	Apparatus for tipping or upsetting coals, &c.
1296	3*d.*	Fire-arms.
1297	3*d.*	Dyeing cotton and other fibrous materials or fabrics.
1298	6*d.*	Machinery for the manufacture of vulcanized india-rubber thread.
1299	3*d.*	Manufacture of tannin, &c.
1300	10*d.*	Apparatus for sowing grain.
1301	9*d.*	Furnaces and steam boilers.
1302	3*d.*	Railway wheels.
1303	3*d.*	Apparatus for measuring and registering the flow of liquids.
1304	6*d.*	Ratchet braces.
1305	5*d.*	Implements for distributing or applying to destroy vermin, &c.
1306	3*d.*	Revolving fire arms, &c.
1307	3*d.*	Artificial fuel.
1308	5*d.*	Safety lamps, &c.
1309	3*d.*	Reflector or cover for gas burners.
1310	6*d.*	Railway buffers.
1311	6*d.*	Stove.
1312	3*d.*	Ventilating stays.
1313	10*d.*	Looms for weaving figured fabrics.
1314	5*d.*	Alembic wine examiner.
1316	6*d.*	Thrashing machine.
1317	3*d.*	Nose bags.
1318	10*d.*	Screw stocks.
1319	1*s.* 5*d.*	Steam engines.
1320	7*d.*	Awls, &c.
1321	7*d.*	Cartridges.
1322	4*d.*	Separation of glycerine from saline and other substances.
1323	3*d.*	Textile fabrics, &c.
1324	3*d*	Lighthouses.
1325	4*d.*	Manufacture of starch.
1326	7*d.*	Sewing machines.
1327	3*d.*	Machine for sweeping carpeted and other floors.
1328	10*d.*	Gas meters
1329	10*d.*	Apparatus for supplying boilers with water.

No.	Price.	Subject-Matter.
1330	4*d.*	Pigment, cement, or mastic.
1331	7*d.*	Treating hemp or tow for calking ships and vessels, &c.
1332	10*d.*	Manufacture of locks.
1333	7*d.*	Marine steam engines.
1334	3*d.*	Generating steam and economizing fuel.
1335	10*d.*	Steam engines.
1336	2*s.* 7*d.*	Machinery for combing cotton and other fibrous materials.
1337	3*d.*	Steam engine boilers and furnaces.
1338	4*d.*	Treatment and application of vegetable fibres.
1339	1*s.* 7*d.*	Machinery for cutting veneers.
1340	3*d.*	Curtain poles or rods.
1342	10*d.*	Perforating bankers' cheques.
1347	6*d.*	Stoves.
1509	8*d.*	Machinery for kneading dough.

Erratum in List of Specifications published during the week ending 7th January, 1859.

No. 1224. For "Iaeger" read "Dyeing wool."

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Numbers of Visitors for the Week ending 15th January, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Jan. 10	Monday -	231	590	821—Fine.
„ 11	Tuesday -	310	459	789— „
„ 12	Wednesday	128	92	220— „
„ 13	Thursday -	95	—	95— „
„ 14	Friday -	141	—	141— „
„ 15	Saturday -	258	—	258— „
	Total -	1163	1141	2304

Total number of visitors since the period of free daily admission (12th May, 1858) to 15th January, 1859, —58,421.

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CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson. (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated 8th April*, 1626, *and 23rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated 22nd February*, 1620, *and 2nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated 24th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset. Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent, No.* 347, *dated 10th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated 25th July*, 1698, *and Stat.* 10 *&* 11 *Will, III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated 7th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated 21st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated 16th March* 1744.) Price 1*s.*

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B. WOODCROFT,
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THE

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No. 527. FRIDAY, JANUARY 21, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

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2766. To EDWARD STANTON JONES, of 13, Marylebone Street, Golden Square, in the county of Middlesex, Professor of Music, for the invention of "Improvements in cornets, trumpets, horns, and similar musical wind instruments."
On his petition, recorded in the Office of the Commissioners on the 3rd day of December, 1858.

2916. To AUGUSTE STANISLAS BELIARD, of Bordeaux, in the empire of France, Hatter, for the invention of "An improved machine for pumicing felts, tissues, and skins."
On his petition, recorded in the Office of the Commissioners on the 21st day of December, 1858.

2954. To JOHN RADLEY, of 22, Upper Sackville Street, in the city of Dublin, Hotel Keeper, for the invention of "An improved cooking apparatus."
On his petition, recorded in the Office of the Commissioners on the 27th day of December, 1858.

2984. To HIPPOLYTE CHARLES VION, of Paris, in the empire of France, Civil Engineer, for the invention of "A new mode of obtaining atmospheric electricity, and terrestial electricity, and its industrial applications, and in apparatus for the same."
On his petition, recorded in the Office of the Commissioners, on the 30th day of December, 1858.

2999. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the manufacture or production of boots and shoes or other coverings for the feet, and in the machinery and apparatus employed in such manufacture."—A communication.

3001. To MATTHEW DIGBY WYATT, of Guildford Street, Russell Square, in the county of Middlesex, Architect, for the invention of "Improvements in tiles and tessaræ and other wall coverings, and in the means of securing the same to walls and buildings."

3003. To JOHN LEES, of Park Bridge, near Ashton-under-Lyne, in the county of Lancaster, Roller Maker, and WILLIAM HEAP, of Ashton-under-Lyne aforesaid, Tool Maker, for the invention of "Improvements in machinery for punching square holes in the ends of rollers and other articles."

3005. To FREDERIC WILHELM ALEXANDRE CASPER and GUILLAUME HENRY SCHMAHL, both of No. 152, Rue du Faubourg St. Martin, Paris, for the invention of "Using spart or Spanish broom in manufacturing seats of all descriptions."

3007. And to JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the manufacture or production and casting of steel, and in the apparatus employed therein." — A communication from Monsieur Sudre.
On their several petitions, recorded in the Office of the Commissioners on the 31st day of December, 1858.

1. To JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for the invention of "An improved mode of making and fitting bungs to casks and other vessels."—A communication.

2. To HELEN CATLIN TRAPHAGEN, of the city, county, and state of New York, in the United States of America, for the invention of "Improvements in skirts for ladies."

3. To ALBAN ANDERSON, of Lancaster, Fairfield county, Ohio, United States of America, for the

invention of "An improvement in governors for machinery."

4. To Benoît Joseph Gosteau, of 2, Rue Ste. Appoline, Paris, in the empire of France, and of 45, Essex Street, Strand, London, Merchant, for the invention of "An improved gridiron, which may form a complete cooking apparatus."

5. To Joseph Eugène Drouot, Baker, of 2, Rue Ste. Appoline, Paris, empire of France, and of 45, Essex Street, Strand, London, for the invention of "Improvements in bakers' ovens."

6. To William Footman, of No. 15, Water Street, Strand, in the county of Middlesex, for the invention of "Improvements in breaks for retarding and stopping railway trains, carriages or other vehicles."

7. To John Oliver, of White Bank, near Chesterfield, in the county of Derby, for the invention of "Improvements in lubricators for steam engine cylinders."

9. To James Garforth, of Dukinfield, in the county of Chester, Engineer, for the invention of "Certain improvements in steam engines."

10. To Henry Ashworth, of Littleborough, in the county of Lancaster, Manager, for the invention of "A certain improvement in power looms for weaving."

11. To Robert Smith, of Beith, in the county of Ayr, North Britain, Wright, for the invention of "Improvement in casting, applicable to printing surfaces, and for other purposes."

12. To Pierre Emmanuel Guérinot, of 60, Boulevart de Strasbourg, Paris, Mechanician Jeweller, for the invention of "Improvements in the application of an apparatus to railway locomotives, waggons and carriages, for the purpose of lessening the effect of concussion in the event of collision."

13. To William Eccles, of 34, Surrey Street, Strand, Westminster, in the county of Middlesex, and of the University of Cambridge, Master of Arts, for the invention of "Improving the machinery or apparatus for regulating the tension of the twist threads or warp whilst it is weaving in power looms into cloth."

15. To Alexander Prince, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for the invention of "Improvements in the construction of cylindrical presses."—A communication from Prince Sergius Dolgoruki, of Berlin.

16. To Wilhelm Adolphe Von Kanig, of Leipsic, in the kingdom of Saxony, Gentleman, for the invention of "Improvements in machinery or apparatus for digging and cultivating land."

17. To James Harris, of Hanwell, in the county of Middlesex, Engineer, for the invention of "Improvements in apparatuses for regulating the pressure and flow of steam, water, and other fluids."

19. To George Skinner, of Stockton-on-Tees, county of Durham, Earthenware Manufacturer, and John Whalley, of South Stockton-on-Tees, county of York, Earthenware Manufacturer, for the invention of "Improvements in the manufacture of ornamental and other tiles, and other similar articles."

20. To John Brown the younger, of the Rotherham Iron Works, Rotherham, in the county of York, Ironfounder, for the invention of "Improvements in buffers, draw springs, and bearing springs."

21. To George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in machinery for forming dough into cakes or bread crackers."—A communication.

22. To Alexandre Louis Lévèque, of Paris, France, Gentleman, for the invention of "An improved apparatus for subduing or stopping runaway or restive horses."

23. And to Joseph Bond Morgan, of Liverpool, in the county of Lancaster, Cotton Broker, for the invention of "Improvements in propelling navigable vessels."

On their several petitions, recorded in the Office of the Commissioners on the 1st day of January, 1859.

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24. To Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "New economical candles." — A communication from Adolphe Michaut, residing at Montpellier, in the empire of France.

25. To Robert Tempest and James Tomlinson, both of the Roach Iron Works, Rochdale, in the county of Lancaster, Machine Makers, for the invention of "Improvements in certain machines for preparing cotton and other fibrous materials."

27. To Charles Bell Blyth, of Dundee, Mill Manager, for the invention of "Improvements in machinery for preparing and treating jute, hemp, flax, and other fibrous materials."

29. To William Renton, of Leeds, in the county of York, Cloth Dresser, Thomas Renton, of Leeds aforesaid, Millwright, and William Binns, of Leeds aforesaid, Cloth Finisher, for the invention of "Improvements in raising the nap or pile of textile fabrics."

30. And to Jacob Furnival, of Leamington, in the county of Warwick, Thomas Furnival, of Cobridge, John Derbyshire, of Longton, and Francis Joseph Emery, of Burslem, all in the county of Stafford, for the invention of "Improvements in apparatus for supporting articles of china and earthenware in kilns and ovens."

On their several petitions recorded in the Office of the Commissioners, on the 3rd day of January, 1859.

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31. To Lindley John Higham, late of New York, in the United States of America, but now residing at Edmund Place, in the city of London, Mechanic, for the invention of "Improved means for obtaining submarine electrical conduction."

32. To John Buchanan, of Greenock, in the county of Renfrew, North Britain, Gentleman, for the invention of "Improvements in oil cans or lubricating apparatus."

33. To John Barnett Joyce, of Bradford, in the county of York, Machine and Tool Maker, for the invention of "Improvements in means, machinery, or apparatus, applicable to wool combing."

34. To WILLIAM HOOD, of No. 68, Upper Thames Street, in the city of London, Iron Merchant, for the invention of "Improvements in racks and water cisterns for stables."

35. To ALFRED BEDBOROUGH, of the town and county of the town of Southampton, Architect and Surveyor, for the invention of "An improved chimney cowl and ventilator."

36. And to CHARLES DE FOREST, of Leicester Square, in the county of Middlesex, Gentleman, for the invention of "An improvement in the manufacture of springs for carriages, and other uses."—A communication from Charles Goodyear, jun., residing at New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 4th day of January, 1859.

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37. To FREDERICK CLARK, of King Street, Bloomsbury, in the county of Middlesex, Turner, for the invention of "Improvements in connecting knobs and handles to the spindles of locks and latches, and other articles of a like nature."

38. To WILLIAM DRAPER, of 2, Gordon Terrace, Holland Road, Brixton, in the county of Surrey, Artist, for the invention of "Improvements in machinery for printing on paper and other fabrics."

39. To JAMES HOWARD, of Bedford, Agricultural Implement Maker, for the invention of "An improved construction of lever-neck plough."

40. To ROBERT RUMNEY, of Manchester, in the county of Lancaster, Manufacturing Chemist, and WILLIAM STEVENSON MACDONALD, of the same place, Mechanic, for the invention of "Improvements in printing and dyeing woven fabrics and yarns or threads."

41. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improvement in the process of and improved apparatus for separating metals from their ores."—A communication from Lewis Solomon, of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 5th day of January, 1859.

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43. To JAMES KIRKMAN, of Bolton-le-Moors, in the county of Lancaster, Manufacturer, and ISAAC GRUNDY, of the same place, Cotton Spinner, for the invention of "Improvements in certain kinds of bed covers or counterpanes, and other textile fabrics of similar character, and in the mode or method of weaving the same."

44. To GEORGE BURY, of Everton, near Liverpool, in the county of Lancaster, Overlooker, for the invention of "Improvements in part or parts of apparatus commonly used and applied for effecting the pick in power looms for weaving."

45. To HENRY GODFREY COOMBS, of No. 17, Union Street, Borough, in the county of Surrey, Ironfounder and Contractor, for the invention of "An improved method of constructing railings, bars, gates, gratings, columns, and all other builder's work of a like nature or description."

46. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W. C., for the invention of "Improvements in machinery or apparatus for preparing cotton and other fibrous materials to be spun."—A communication from César Vallée, resident at Cernay, in the empire of France (département du Haut Rhin).

47. To WILLIAM RENTON, of Leeds, in the county of York, Cloth Dresser, THOMAS RENTON, of Leeds aforesaid, Millwright, and WILLIAM BINNS, of Leeds aforesaid, Cloth Finisher, for the invention of "Improvements in finishing woollen and other fabrics."

48. To JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, for the invention of "Improvements in machines for the manufacture of bolts, rivets and spikes."

49. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "An improved textile fabric, applicable to the manufacture of varnished cloths, and to other purposes." — A communication from André Paul Roger, resident at Paris, in the empire of France.

50. And to JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for boring, piercing rocks, applicable also to the dressing or working of stone, and as a power hammer generally." — A communication from Monsieur Germain Sommeiller, residing at Turin, in the kingdom of Sardinia, Engineer.

On their several petitions, recorded in the Office of the Commissioners on the 6th day of January, 1859.

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51. To WILLIAM SPENCE, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in the mode of taking photographic pictures on wood."—A communcation from Charles B. Boyle, residing in the United States of America.

53. To EDWIN HEYWOOD, of Halifax, in the county of York, for the invention of "Improvements in weaving."

55. To GEORGE KENNEDY GEYELIN, Civil Engineer, of London, for the invention of "Regulating gas burners, which he calls the Universal Gas Burner Regulator."

57. To JOHN PATERSON, of Wood Street, in the city of London, Warehouseman, for the invention of "An improvement in bands and belts for the waist."

59. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in machinery for winding, twisting, and doubling fibrous materials."—A communication from Louis Barnabé Duboc, jun., of Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 7th day of January, 1859.

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61. To CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved chain and bucket pump."—A communication from André Xavier

Dubrulle-Chevalier, residing at Douai (Nord), in the empire of France.

63. To Theodore Byron Hubbell, of Castle Street, in the county of Middlesex, Manufacturer, for the invention of "An improved trap for rabbits, rats, mice, and other like animals and vermin."—A communication from C. B. Hubbell, residing at Bridgeport, U.S.

65. To Alexander William Williamson, of University College, London, for the invention of "Improvements in condensers for steam engines and other purposes."

67. To William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in purifying natural phosphates of lime."—A communication from Emile Constant Martin, residing at Paris, in the empire of France, formerly Banker.

69. To John Thomas Forster, of Holland Road, Kensington, in the county of Middlesex, Gentleman, for the invention of "Improvements in bed berths, applicable for bunks, hammocks, cots, and other fixed and moveable sleeping places."

71. And to William A. Lyttle, Esq., of the Secretary's Department, General Post Office, Ireland, (address) Secretary's Office, General Post Office, London, for the invention of "Taking the place of springs in many, if not all, of the combinations into which they enter, and also for equilibrating a varying force or weight."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of January, 1859.

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73. To Louis A. Normandy, junr., of 67, Judd Street, London, for the invention of "Improvements in the process of distilling and clarifying resinous substances." — A communication from E. Dromart, D. Dusillol, and A. Dusillol, of Préchac, département de la Gironde, in the empire of France.

75. To Ferdinand Lehr, of Hoboken, in the state of New Jersey, United States of America, for the invention of "Improvements in machinery for manufacturing metallic ribs for umbrellas, parasols, and other articles."

77. And to John White, of Finchley, in the county of Middlesex, Surgeon, for the invention of "Improvements in cleansing or purifying air, and in increasing or reducing the temperature thereof, and in the application of air so treated to sanitary and other uses."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of January, 1859.

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79. To Eugenio Agneni, of 29, Devonshire Street, Queen Square, Bloomsbury, in the county of Middlesex, an Historical Painter, native of Rome, for the invention of "Increasing particularly the effect of decorative pictures, landscapes, drawings, and prints, through looking glasses."

81. To John Biers the younger, of No. 38, Rochester Road, Kentish Town, in the parish of Saint Pancras, in the county of Middlesex, Coach Maker, for the invention of "A self-acting carriage wheel brake."

83. To William Tillie, of the city of Londonderry, in the county of Londonderry, Ireland, Shirt Manufacturer, for the invention of "An improvement in the manufacture of shirts and shirt fronts."

85. To Bernard Joseph Rubenstein, late of Paris, and now of London, Dentist, for the invention of "Improvements in dentistry."

87. To Charles William Siemens, of John Street, Adelphi, in the county of Middlesex, for the invention of "Improvements in supports for electric telegraphic line wires, and in tools or apparatus to be used in the construction of such supports, part of which improvements are applicable to the joining of pipes and other articles."

89. And to Nicholas Procter Burgh, of Sheerness, Engineer, for the invention of "Improvements in steam engines."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of January, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

21st January, 1859.

1529. Adderley Willcocks Sleigh, of Mansell Villas, Wimbledon Park, Knight of the Ancient and Most Noble Order of the Tower and Sword, Captain late Royal Navy, and Her Majesty's Land Transport Corps, for an invention of "Improvements in the construction of floating sea barriers, or artificial beaches, breakwaters, and batteries."—Dated 7th July, 1858.

1645. Matthew Matley, of Ashton-under-Lyne, in the county of Lancaster, Engineer, for an invention of "Improvements applicable to steam boilers for consuming smoke and economising fuel in the generation of steam."—Dated 21st July, 1858.

1651. David William Warder, of 4, Caroline Place, Chelsea, in the county of Middlesex, Draughtsman, for an invention of "Improvements in the manufacture of beams, girders, ships' ribs or frames, and other structures of wrought iron."—Dated 22nd July, 1858.

1658. Henry Higgins, of Salford, in the county of Lancaster, Machinist, and Thomas Schofield Whitworth, of the same place, Manager, for an invention of "Improvements in machinery for spinning and doubling or twining cotton and other fibrous materials."—Dated 22nd July, 1858.

1662. Harby Barber, of Leicester, Manufacturer, for an invention of "Improved machinery for producing knitted fabrics."—Dated 23rd July, 1858.

1671. Julien François Belleville, of Paris, in the French empire, Civil Engineer, for an invention of "An improved smoke-consuming apparatus or furnace."—Dated 24th July, 1858.

1675. To Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "Improvements in glass-roofs, skylights, windows, and other glass structures."—A communication from Pierre François Rolier-Gonsault, of Montargis (Loiret), in the empire of France.—Dated 26th July, 1858.

1697. Arnauld Kellermann, at Courbevoie, département de la Seine, French empire, for an invention of "The employ of new vegetal substances for dying and especially to replace Cocheneal dye."—Dated 28th July, 1858.

1698. Alexandre Pougault, of Decize (Nièvre), a town of France, Practical Engineer, for an invention of "An improved apparatus for purging or clearing steam engines of their condensed water."—Dated 28th July, 1858.

1832. William Knowles, of Bolton-le-Moors, in the county of Lancaster, Cotton Spinner, for an invention of "Improvements in certain parts of machinery used in preparing and spinning cotton and other fibrous materials."—Dated 12th August, 1858.

1915. Thomas Averill, of Birmingham, in the county of Warwick, Wholesale Tea Dealer, for an invention of "An improvement or improvements in mills for grinding."—A communication from a Foreigner residing abroad.—Dated 23rd August, 1858.

2672. Frederick Crace Calvert, of the city of Manchester, Professor of Chemistry, and Charles Lowe, of the same place, Analytical Chemist, for an invention of "Improvements in the manufacture of size."—Dated 25th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 19th January*, 1859, *inclusive.*)

17th January.

142. François Jules Manceaux, of Paris, in the empire of France, Gun Manufacturer, for an invention of "Improvements in fire-arms."—Dated 18th January, 1856.

163. Jean Baptiste Pierre Alfred Thierry, junior, Jean Louis Richard, both of Paris Chemists, and Baron Henry de Martiny, of Versailles (France), for an invention of "Improvements in preventing smoke by means of a fumivore hygienic apparatus."—Dated 22nd January, 1856.

171. Joseph Francis, of New York, in the United States of America, Engineer, for an invention of "Improvements in the manufacture of metallic boats."—Dated 22nd January, 1856.

18th January.

197. Felix Chauchard, of Paris, in the empire of France, for an invention of "Improvements in the manufacture of paper and pasteboard from vegetable and wood substances."—Dated 25th January, 1856.

19th January.

181. Joseph Hopkinson, the younger, of Huddersfield, in the county of York, Engineer, for an invention of "Improvements in apparatus connected with steam-boilers."—Dated 23rd January, 1856.

203. John Beads, of Pendleton, near Manchester, in the county of Lancaster, Manager, for an invention of "Improvements in machinery or apparatus for spinning cotton, wool, or other fibrous substances, where self-acting mules are used."—Dated 25th January, 1856.

227. Pierre Emmanuel Guérinot, of Rue au Maire, in Paris, Mechanician Jeweller, for "An invention for stopping instantaneously two railway trains running against each other."—Dated 28th January, 1856.

Erratum in Journal of 14th January.

3006. For "Louis A. Normandy" read "Louis A. Normandy, jun."

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson. (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated 8th April*, 1626, *and 23rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated 22nd February*, 1620, *and 2nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated 24th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset. Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent, No.* 347, *dated 10th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated 25th July*, 1698, *and Stat.* 10 *&* 11 *Will, III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated 7th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated 21st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson. (*Letters Patent, No.* 602, *dated 16th March* 1744.) Price 1*s.*

A List of the Patents for Inventions which have become Void by reason of the nonpayment of the additional Stamp Duty of £50 before the expiration of the Third Year from the date of such Patents, pursuant to the Act of the 16th Vict. c. 5, sec. 2,—for the Quarter ending the 31st day of December, 1858.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2179	1st Oct. 1855.	William Illingworth, of Manchester, in the county of Lancaster, Gentleman.	Certain improvements in printing earthenware, China, or other ceramic manufactures.
2181	,,	Auguste Edouard Loradoux Bellford, of 32, Essex Street, Strand, London, Patent Agent.	Improvements in ventilating hats or other coverings for the head.
2186	,,	Joseph François Victor Augier, of No. 29, Rue de Chabrol, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Gentleman.	An improved apparatus for extracting the aroma from plants and flowers.
2187	,,	George Baker, of No. 149, High Street, Southwark, in the county of Surrey, Ironmonger, and Charles Miller, of Flying Horse Yard, Southwark, in the county of Surrey aforesaid, Builder.	Improvements in the construction of register stoves.
2190	,,	George Curling Hope, of Hastings, in the county of Sussex, Designer and Publisher.	An improved method of producing figures, patterns, or designs upon textile fabrics for the purposes of needlework.
2192	2nd Oct. 1855.	Alexander Sands, of the city of Manchester, Ironfounder.	Improvements in securing rails in railway chairs.
2194	,,	Laurent Marie René Péan, of Paris, in the empire of France.	An improved inkstand.
2195	,,	George Rennie, of the firm of George Rennie, John Keith Rennie, and George Banks Rennie, of Holland Street, Blackfriars, Engineers.	Improvements in steam-engine boilers as applied to the propulsion of vessels
2196	,,	Richard Threlfall, of Preston, in the county of Lancaster, Gentleman, and William Knowles, of the same place, Overlooker.	A certain improvement in looms for weaving.
2199	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	An improved mode of constructing elastic bed bottoms, applicable also to sofas, settees, and other seats.
2200	,,	François Fortune Benvenuti, of Paris, France, and 4, South Street, Finsbury, London, Gentleman.	Certain improvements in typography.
2201	,,	George Tomlinson Bousfield, of Sussex Place, Loughborough Road, in the county of Surrey.	Improvements in locks for fire-arms.

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2204	3rd Oct. 1855.	William Ramscar, of the city of Manchester, in the county of Lancaster, Engineer.	Improvements in fire-arms, which improvements are also applicable to cannons and all kinds of field pieces.
2207	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	A method of ascertaining or indicating and regulating the height of water in steam-boilers.
2208	„	John Dickinson, of Old Bailey, in the city of London, Paper Manufacturer.	An improvement in the manufacture of paper.
2212	4th Oct. 1855.	Henry Oldham, of Leeds, in the county of York, Overlooker.	An improvement in weaving textile fabrics.
2213	„	George Frederick Gruet, of Bordeaux, in the empire of France, Merchant.	An improvement in the construction of lamps.
2214	„	John Lancaster, of Deptford, in the county of Kent, Horticulturist.	An improved waterproof material.
2215	„	Henry Cornforth, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of hooks and eyes.
2216	„	Thomas Henry Ryland, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of bracelets and other dress ornaments, and ornamental dress fastenings.
2220	„	Edward Meldrum and James Young, both of Glasgow, in the county of Lanark, Merchants.	Improvements in the manufacture of certain salts of sodium and potassium.
2223	„	François Modeste Demait, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London, Gentleman.	Certain improvements in the preservation of animal and vegetable substances.
2226	5th Oct. 1855.	Jean Daniel Pfeiffer, of 1, Rue Princesse, Paris.	Improvements in the construction of knives or cutters.
2233	6th Oct. 1855.	William John Roffe, of Upper Holloway, in the county of Middlesex, Gentleman.	Improvements in stoves or furnaces.
2234	„	Adolph Coutinho, late of the Free Town of Hamburg, in Germany, now residing at Oldham, in the county of Lancaster.	Improvements in the means of obtaining motive power, or continuous motion.
2236	„	James Washington, of Batley, near Dewsbury, in the county of York, Machinist.	Improvements in apparatus for sweeping chimneys or flues.
2237	„	James Torry Hester, of Oxford, Surgeon.	Improvements in invalid and children's chairs.
2239	„	William Rogers, of New Road, Whitechapel Road, in the county of Middlesex, Member of the Royal College of Veterinary Surgeons.	Improvements in fire arms.
2242	8th Oct. 1855.	John Hubbard, of Albion Road, Hammersmith, in the county of Middlesex.	An improved sole for boots and shoes.
2247	„	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in condensers.
2249	9th Oct. 1855.	Perceval Moses Parsons, of Duke Street, Adelphi, in the county of Middlesex, Civil Engineer.	Certain improvements in connecting and securing the joints of pipes and tubes.

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2250	Oct. 1855.	Joseph Gilbert Martien, of Newark, New Jersey, in the United States of America, but now residing in London.	Improvements in the manufacture of iron and steel.
2253	,,	James Murdoch, of 7, Staple Inn, in the county of Middlesex, Patent Agent.	Improvements in extracting colouring matter from lichens containing such coloring matter.
2254	,,	James Murdoch, of 7, Staple Inn, in the county of Middlesex, Patent Agent.	Improvements in extracting colouring matter from lichens containing such coloring matter.
2255	,,	Julien François Belleville, Civil Engineer, of Paris, in the French empire.	An improved smoke consuming apparatus.
2258	,,	Stephan Goldner, of Wimpole Street, in the county of Middlesex.	Improvements in apparatns used in cooking and preserving animal and vegetable matters.
2259	,,	Narcisse Leroy, of 15, Rue de l'Eglise Batignolles, Paris, Railway Contactor.	Improvements in the construction of railway carriages.
2264	10th Oct. 1855.	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for dressing flour.
2266	,,	Thomas Oddie, of Preston, in the county of Lancaster, Manager, William Lancaster, of the same place, Manufacturer, and John Lancaster, of the same place, Manager.	Certain improvements in looms for weaving.
2268	,,	Denis Hébert, of 28, Rue Marbeuf, Paris, Director of the Boulangerie Economique.	Improvements in heating and arranging ovens.
2271	11th Oct. 1855.	Jane Ann Herbert, of No. 5, Waterden Place, Guildford, in the county of Surrey, Widow.	Improvements in propellers for propelling steam ships or other vessels, and which are denominated the Whinfield or conical propeller.
2273	,,	William Andrew Fairbairn, of the city of Manchester, Engineer, and George Haslam, of the said city, Mechanic.	Improvements applicable to locomotive engines and carriages.
2274	,,	William Bayley, of Staleybridge, in the county of Lancaster, Cotton Spinner, and John Quarmby, of the same place, Manager.	Improvements in machines for carding cotton and other fibrous materials.
2275	,,	Peter Spence, of Pendleton, in the county of Lancaster, Manufacturing Chemist.	Improvements in the production of sulphate of alumina to be used in the fluid state, or to be rendered into the solid condition, known commercially as cake alum.
2277	,,	John King Westrop, of Staining Lane, and Edward Alfred Sharman, of 35, Noble Street, both in the city of London.	An improvement in the manufacture of gloves made of looped fabrics of silk, cotton, and linen.
2278	,,	Richard Albert Tilghman, of the city of Philadelphia, United States of America.	Improvements in treating fatty and oily substances.
2281	12th Oct. 1855.	Robert Henry Kay and Alfred Thomas Richardson, Manufacturers, and George Mallinson, Pattern Designer, all of the city of Manchester.	Improvements in the manufacture of plain and ornamental woven fabrics.
2282	,,	Thomas Moore, of Retford, in the county of Nottingham, Engineer.	An improved mill for grinding corn and other grain.

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2283	12th Oct. 1855.	William Lyall, of Amiens, in the French empire, Flax Spinner.	Improvements in spinning machinery applicable also to roving machinery.
2285	„	Henry Gardner, of Oldner Farm, Chipping Norton.	Improvements in machinery for dressing or cleaning wheat, grain, and seeds.
2288	13th Oct. 1855.	James Septimus Cockings, Civil Engineer, and Ferdinand Potts, Patent Tube Manufacturer, both of Birmingham, in the county of Warwick.	Certain improvements in sockets for holding whips and candles, parts of which are also applicable to the sockets or irons for holding carriage and other lamps.
2289	„	Hugh Greaves, of New Palace Yard, in the city of Westminster, Civil Engineer.	Improvements in the construction of steam boilers.
2290	„	Germain Adolphe Thibierge, Apothecary of Versailles, a town in the French empire.	Certain improvements in manufacturing chlorine, part of which are applicable for obtaining certain accessory products.
2291	„	John Dewrance, of Barge Yard, Bucklersbury, in the city of London, Engineer.	An improvement in the frames of pianofortes.
295	„	Thomas and William Hemsley, of Melbourne, near Derby.	An improvement in the manufacture of embossed and craped fabrics.
2297	„	Manuel Perez Lozano, of Crutched Friars, in the city of London.	Improvements in treating pyrites and ores containing sulphur, in obtaining sulphuretted hydrogen, and in precipitating copper from solutions.
2299	„	John Stenhouse, of 15, Upper Barnsbury Street, Islington.	Improvements in the preparation of decolourizing materials.
2305	15th Oct. 1855.	James Miller Brown and Thomas Brown, of 165, Piccadilly.	Improvements in the manufacture of folding chairs.
2306	„	Enrico Angelo Ludovico Negretti and Joseph Warren Zambra, both of Hatton Garden, in the city of London, Meteorological Instrument Makers.	Improvements applicable to self-registering gauges, thermometers, barometers, and other mercurial meteorological instruments.
2308	16th Oct. 1855.	George Thomson, of Glasgow, in the county of Lanark, North Britain, Engineer.	Improvements in steam engines.
2310	„	William Church, of Birmingham, in the county of Warwick, Engineer.	An improvement or improvements in the manufacture of ordnance.
2312	„	John Forrest, of Dear's Place, Somers Town, in the county of Middlesex, Mineralogist.	An improved mode of extracting metals from their ores.
2313	„	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in the construction of fire arms.
2315	„	James Fraser, of Jermyn Street, in the county of Middlesex, Gentleman.	An improvement in the manufacture of paper or paper pulp.
2318	17th Oct. 1855.	Jules Hyppolite Clément, of Paris (France), Proprietor.	An improved break for railway carriages, parts of which are applicable to breaks for other purposes.
2323	„	Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London.	Improvements in metal beams, girders, and tension bars used in the construction of roofs, floors, and other parts of buildings, and in the construction of viaducts and suspension and other bridges.

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2324	17th Oct. 1855.	William Henry Walton, of the city of Glasgow, in the county of Lanark, Engineer.	An improved machine for carding, combing, or preparing fibrous substances.
2329	,,	John Talbot Pitman, of the American and European Patent Offices, 67, Gracechurch Street, London.	An improvement in fire arms.
2330	,,	Thomas Taylor, of the Patent Saw Mills, Manchester, in the county of Lancaster.	Improvements in apparatus for extinguishing fire by means of water, part of which is also applicable to governing the discharge of fluids for other purposes.
2332	,,	Thomas Richards Harding, of Leeds, in the county of York, Hackle, Comb, and Gill Manufacturer.	Improvements in combs, gills, and hackles used in the preparing and manufacturing of flax, silk, wool, or other fibrous substances, and in combs for combing the human or other hair.
2333	18th Oct. 1855.	Charles Edwin Jones, of Huddersfield, in the county of York, Gentleman.	Certain improvements in machinery for raising water and other liquids by means of a combination of the principle of the accumulation of force by compression of air or other elastic fluids, and that of centrifugal force the more readily to obtain increased mechanical power thereby.
2334	,,	John Wakefield, of Birmingham, in the county of Warwick, Machinist.	Improvements in machinery used in the manufacture of screw-blanks, nails, pins, rivets, and other similar articles.
2335	,,	William Glass, Analytical Chemist, 2, Dublin Cottages, Millwall, Poplar.	Improvements in obtaining a deodorizing and disinfecting material.
2339	,,	John Cheesman Wagstaff, of 20, Grosvenor Street, in the county of Middlesex.	Improvements in the manufacture of seamless garments and other seamless fabrics.
2340	,,	John Davie Morries Stirling, of the Larches, near Birmingham.	Improvements in coating silver, copper, zinc, and iron, and alloys of those metals.
2341	19th Oct. 1855.	John Smith, of No. 32, Brydges Street, Covent Garden, in the county of Middlesex, Gentleman.	Improvements in the construction of bedsteads, such improvements being applicable to carriages, ambulances, and other articles.
2347	,,	Henry Giller, of Southampton Street, in the city of Westminster, Manufacturer.	An improvement in globes and shades for gas and other lights.
2349	,,	William Field and Edward Jeffreys, both of Shrewsbury, in the county of Salop, Gentlemen.	Improved means for securing the rails of railways in their chairs or bearings.
2350	20th Oct. 1855.	Thomas Craven, Manager of a Mill, and Matthew Pickles, Overlooker, both of Birstall, in the county of York.	Improvements in weaving.
2351	,,	Pierre Arnaud Massip of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Gentleman.	A machine for preparing hat linings.
2352	,,	Pierre Antoine Henry Parant, Ceramic Materials and China Ware Manufacturer, in Limoges, France.	Improvements in manufacturing millstones.

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2355	20th Oct. 1853.	Frederic Whitaker, of Murray Street, New North Road.	Improvements in the construction of sewing machines.
2357	,,	Henry Woodrow, of Wood Street, Cheapside, in the city of London, Shirt Manufacturer.	Improvements in shirts.
2358	22nd Oct. 1855.	William Teall, of Wakefield, in the county of York, Engineer.	A mode of treating certain materials containing fatty or oily substances, in order to extract those fatty or oily substances therefrom.
2360	,,	Alexander McGlashan and Edward Field, both of the Coal Yard, Drury Lane, London, Engineers.	Improvements in printing presses.
2361	,,	Charles Lenny, of Croydon, in the county of Surrey.	Improvements in carriages.
2362	,,	Pierre Alexandre Leroux, Chemist, and Louis Réne Martin, Merchant, both of Paris, in the empire of France.	Combining a resinous matter, with oils or fatty bodies, in order to obtain various useful products therefrom.
2363	,,	Vincent Scully, Esquire, and Bennett Johns Heywood, Gentleman, both of the city of Dublin.	Improvements in clips or holders for suspending railway tickets and other small articles.
2366	23rd Oct. 1855.	Alfred Gregory, of 21, Church Street, in the Parish of Christchurch, in the county of Surrey, Plumber, and John Jillings, of 6, Temple Street, Whitefriars, in the city of London.	Improvements in cleansing the basin or pan of waterclosets, and in apparatus for the same.
2369	,,	John Bellamy, of the Lower Road, Islington, in the county of Middlesex.	Improvements in graining, and in producing imitative ornamental surfaces and in certain instruments or apparatus to be employed for such purposes.
2370	,,	Thomas Roberts and John Dale, of Manchester, Manufacturing Chemist, in the county of Lancaster.	Certain improvements in treating and preparing amylecious substances for the purposes of stiffening.
2371	,,	Thomas Richardson, of Portland Place, Newcastle-on-Tyne.	Improvements in the manufacture of glass and clay-wares.
2374	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in machinery for making rope and cordage.
2378	24th Oct. 1855.	John Healey, Engineer, and John Foster, and John Lowe, Spindle Makers, all of Bolton-le-Moors, in the county of Lancaster.	Improvements in machinery to be used for drawing, moulding, forming and forging various articles of metal.
2381	,,	John Edwin Mayall, of 224 and 226, Regent Street, in the county of Middlesex, Photographic Artist.	Improvements in photography.
2383	,,	Charles Crickmay, of Lambeth, in the county of Surrey, and Frederic Joseph Clowes, of Camberwell, in the same county.	Improvements in the manufacture of guns, pistols, and gun stocks, and in cutting and carving wood, metals, minerals, and other materials by machinery.
2386	25th Oct. 1855.	Alfred Ardouin, of 5, Woodland Street East, Greenwich, in the county of Kent, Shipwright and Carpenter.	A corking and capsuling machine.

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2387	25th Oct. 1855.	Henry Tritton, of Great Grimsby, Lincolnshire, Esquire.	An improved safety apparatus for the protection of persons while painting the exterior of buildings and cleaning windows, which may be used as a balcony for holding flowers.
2389	„	James Platt, of Oldham, in the county of Lancaster, Mechanical Engineer, and John Whitehead, of the same place, Foreman.	Improvements in machinery or apparatus for preparing clay for the manufacture of bricks.
2390	„	Joseph Robinson, of Aldersgate Street, Watch Maker, in the employ of William Mott, of 36, Cheapside, London.	Certain improvements in winding clocks.
2391	„	John Andrew Richards, of 10, Tyers Gateway, Bermondsey Street, in the county of Surrey.	Improvements in producing the hard grain on leather.
2393	26th Oct. 1855.	John Pinches, of Oxendon Street, Haymarket, in the county of Middlesex, Die Sinker.	Improvements in the construction of dies or stamps for marking papers, linen, or other substances.
2395	„	Edwin Pugh, of Chartham, in the county of Kent.	Safety alarum and signal apparatus.
2396	27th Oct. 1855.	Joseph Charles Frederick Baron de Kleinsorgen, of No. 3, Sidmouth Street, in the county of Middlesex.	An improved variation and azimuth compass.
2397	„	Edward Stark, of Monkton, in the Isle of Thanet, Plumber and Glazier.	Improvements in pens for writing.
2398	„	Henry Wyatt, of 58, Pall Mall, London, in the county of Middlesex.	A peculiar apparatus for more rapidly and perfectly manœuvring or steering steam ships of war or of commerce, which is entitled The Transpulsor.
2400	„	John Davie Morries Stirling, of Black Grange, Clackmannen, N. B.	Improvements in the manufacture of cast steel tubes and cylinders, applicable especially in the manufacture of cannon, mortars, and other guns, also steam and other cylinders.
2403	„	Peter Cranke Wood, of Guildford Street East, in the county of Middlesex, Mineral Surveyor.	Improved machinery for preparing or scutching flax and other analogous fibrous substances.
2406	„	John James Speed, jr., of the city of Detroit, state of Michigan, United States of America.	Improvements in car and carriage springs.
2413	29th Oct. 1855.	Germain Jean Paul Marie Villeroux, of Paris, in the empire of France.	Certain improvements in the manufacturing of soap.
2417	30th Oct. 1855.	Paul Emile Chappius, of 69, Fleet Street, and 10, St. Mary Axe, city of London.	Improvements in reflectors for the diffusion of artificial light.
2422	„	Jules Jean Baptiste Sylvain Martin de Lignac, Gentleman, of Paris, in the empire of France.	An improved mode of preserving animal substances.
2423	31st Oct. 1855.	William Henry Walenn, of 46, Regent Street, London, county of Middlesex.	Self-acting attachment to be applied to gates.
2424	„	Robert Griffiths, Journeyman Joiner, of Lower Broughton, Manchester, in the county of Lancaster.	A compound and exact measurement tap, applicable to the measurement of every kind of liquor or liquid.
2425	„	James Gray Lawrie, of Glasgow, Engineer.	Improvements in shipbuilding, to facilitate the use of water as ballast.

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2426	31st Oct. 1855.	Thomas Webster Rammell, of Trafalgar Square, in the county of Middlesex.	Improvements in preparing black lead, chalk, and other materials used for drawing, writing, and marking.
2431	,,	Richard Pannell Forlong, of the city of Bristol, Manure Manufacturer.	An improved manufacture of manure.
2432	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in the manufacture of gas.
2435	1st Nov. 1855.	Henry Laxton, of the firm of William and Henry Laxton, of 19, Arundel Street, Strand, London, Patent Agent.	Improvements in gearing for increasing or decreasing rotary speed.
2436	,,	Richard Reeves Cox, of Fareham, in the county of Hants, Coal Merchant.	Improvements in the manufacture of artificial fuel.
2440	,,	John Pinches, of Oxendon Street, Haymarket, in the county of Middlesex, Die Sinker.	An improved machine or apparatus for embossing paper, metal, and other substances by hand.
2443	,,	Robert Kerr, of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in spinning together fibrous materials of different kinds.
2444	,,	Lewis Normandy, of 67, Judd Street, Brunswick Square, in the county of Middlesex, Civil Engineer.	Improvements in securing the rails in railways.
2445	,,	William Henry Walenn, of 46, Regent Street, London, county of Middlesex.	Certain improvements in pianofortes.
2446	,,	Edwin Thomas Truman, of Old Burlington Street, in the county of Middlesex, Dentist.	Improvements in palates or holders for artificial teeth.
2447	2nd Nov. 1855.	Isham Baggs, of Pentonville, London, Engineer, and Henry Forfar Osman, of 33, Essex Street, Strand, London.	Improvements in steam engines and in engines generally which are worked either by gas, air, or vapour, and in apparatus for generating electricity for effecting parts of said improvements, and for other purposes.
2448	,,	John Cottrill, of Great Lever, near Bolton, in the county of Lancaster, Bleacher.	Improvements in machinery or apparatus for washing, scouring, dyeing, sizing, and cleaning woven fabrics and yarns.
2456	3rd Nov. 1855.	James Smith Cottrill, of Great Lever, near Bolton, in the county of Lancaster, Bleacher.	Improvements in machinery or apparatus for washing, scouring, dyeing, sizing, and cleaning woven fabrics and yarns.
2457	,,	James Heginbottom, of Ovenden, in the parish of Halifax, in the West Riding of the county of York, Cotton Spinner.	Improvements in furnaces and apparatus for generating steam, whereby the smoke will be consumed and the fuel economized.
2458	,,	James Eastwood, of Mill House, Midgley, in the West Riding of the county of York, Worsted Spinner and Manufacturer.	Certain machinery or apparatus for taking out the slubs, noils, and knots from worsted sliver, slubbing and roving.
2459	,,	James Pattison, of the city of Glasgow, in the county of Lanark, Merchant.	Improvements in machinery for dressing and finishing woven goods and fabrics.
2460	,,	George Davis, of Southampton, in the county of Southampton, Plumber.	Improvements in apparatus for letting in or shutting off water or other liquids.

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2462	3rd Nov. 1855.	William Robertson, of Oakfield Foundry, Iron Founder, and James Henry, Machine Maker, both of Edinburgh, Scotland.	Improvements in machinery for reaping and mowing corn or other agricultural porduce.
2464	,,	James Greenshields, of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in the manufacture or production of drying oleaginous compounds.
2465	,,	Thomas Ridgway Bridson, of Bolton-le-Moors, in the county of Lancaster.	Improvements in preparing, beetling, or finishing textile fabrics.
2467	,,	William Prior Sharp and William Weild, both of the city of Manchester, in the county of Lancaster, Silk Manufacturers.	Improvements in the reeling or winding of cocoons, and in the manufacture of silk threads, and in machinery and apparatus for these purposes.
2468	,,	Fennell Allman, of Cambridge Terrace, in the county of Middlesex, Consulting Engineer.	Certain improvements in apparatus for the production of steam.
2473	5th Nov. 1855.	Robert Spring Garden, of Piccadilly, in the county of Middlesex, Army Accoutrement Maker.	Improvements in the manufacture of hats.
2474	,,	John Hicks, of Bedford Place, Clapham Rise, in the county of Surrey, Civil Engineer.	An improved gauge valve, applicable to boilers of steam-engines, and to other purposes.
2475	,,	Arthur Dobson, of Belfast, in the county of Antrim, in Ireland, Bleacher.	Improvements in preparing certain unbleached linen fabrics.
2476	,,	Francis Hawkes, the elder, Surveyor, of West Street, in the parish of Saint Lawrence, Reading, in the county of Berks.	Improvements in the construction and arrangement of water-closet apparatus.
2478	,,	Henry Clinton Page, of No. 1, Commercial Road South, Pimlico, in the county of Middlesex, Sculptor.	An improved method of indurating marble and stone, and of permanently fixing colours therein when colouring matters are applied thereto, for producing a variegated pattern or device on the surface thereof.
2479	,,	William Henry Walenn, of No. 46, Regent Street, London, in the county of Middlesex, Civil Engineer.	An improved mode of flattening cylinder glass.
2481	,,	George Burridge, of Great Portland Street, in the county of Middlesex, Architect.	Improvements in the preparation of glass for ornamental purposes.
2482	,,	Peter McGregor, of the town and county of Dumbarton, North Britain, Joiner.	Improvements in water-closets.
2483	,,	George Baring Locke, of Notting Hill, Kensington, in the county of Middlesex, Railway Clerk.	Apparatus, apparatuses, or mechanism for placing detonating or fog signals on the rails of railways to be exploded thereon and for removing the same therefrom whenever required.
2485	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved apparatus for cooling and drying flour.
2488	6th Nov. 1855.	Joseph Jessop, of Lascelles Hall, near Huddersfield, in the county of York, Manufacturing Chemist.	Improvements in the construction of furnaces and boilers.

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2489	6th Nov. 1855.	Frederic Ludewig Hahn Danchell, of No. 4, Arthur Terrace, Caledonian Road, Islington, in the county of Middlesex, Civil Engineer.	Certain improvements in apparatus for ascertaining the pressure of steam, air, water, or any other fluid or liquid.
2490	„	Richard Goose, of Birmingham, in the county of Warwick, Manufacturer.	Improvements in the manufacture of cut nails.
2491	„	Joseph Schloss, of Wellington Chambers, Cannon Street West, London, county of Middlesex.	A new mounting for travelling bags.
2493	„	Samuel Cunliffe Lister, of Manningham, near Bradford, York.	Improvements in weaving pile fabrics.
2495	„	Edward Jeffreys, of Shrewsbury, Engineer.	An improvement in the construction of furnaces.
2496	7th Nov. 1855.	George Cotsell, of Brompton, in the county of Kent.	An improved gutter and kerb for roads and streets.
2497	„	Charles Hanson, of Pimlico, in the county of Middlesex, Gun Smith.	Improvements in fire-arms.
2499	„	Joseph Haley, of the city of Manchester, in the county of Lancaster, Engineer.	Improvements in the buffers and spring draw bars of waggons or other railway vehicles, and in the application of the same.
2500	„	Frederick Scholefield, of the city of Manchester, in the county of Lancaster, Machinist.	Improvements in machinery or apparatus for cutting paper, cardboard, and similar materials.
2502	„	William Kenworthy, of Blackburn, in the county of Lancaster, Manufacturer.	Certain improvements in steam engine valves, and in the mode of working the same.
2505	„	William Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, in the county of Lanark, North Britain, Civil Engineer.	Improvements in the manufacture and application of prussiates and other colouring matters.
2506	„	John Wakefield, of Inchicore Works, in the county of Dublin, Engineer.	Improvements in machinery for working the slides and steam valves of engines driven by steam or other elastic fluid.
2508	„	Charles Marie Pouillet, Civil Engineer, of Paris, in the French empire.	Certain improvements in railways.
2510	„	Thomas Godding, of Ipswich, in the county of Suffolk, Stay Maker.	Improvements in the fastening for stays, corsets, and bands.
2511	„	Charles Allen Browne, of the state of Massachusetts, of the United States of America.	A machine for manufacturing bricks.
2513	„	George Tomlinson Bousfield, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	Improvements in wrought iron shafts for steam boats and other purposes where great strength is required.
2520	9th Nov. 1855.	John Olive and William Olive, both of Woolfold, near Bury, in the county of Lancaster, Railway Carriage Builders.	Improvements in the manufacture of wheels for railway and other purposes.
2521	„	John Raywood, Engineer, of Wentworth, in the county of Yorkshire.	An improved rolling, dibbling, sowing, and harrowing machine for wheat and other agricultural produce.
2523	„	Henry Fletcher, of the city of Manchester, in the county of Lancaster, Engineer.	Improvements in the manufacture of nuts, bolts, and other similar articles, and in the machinery or apparatus for making the same.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2525	9th N v. 1855.	William Henry Walenn, of No. 46, Regent Street, London, in the coun t Middlesex, Civil Engineer.	Certain new and useful improvements in looms for weaving seamless bags, and other open double fabrics of a similar character.
2526	„	Charles Joseph Hampton, of Llynrivale, in the parish of Llangynwyd, and county of Glamorgan, Manager of Ironworks.	Improvements in the manufacture of iron.
2529	10th Nov. 1855.	William Henry Bentley, of Bedford, in the county of Bedford, Engineer.	Improved cannon, guns, and other fire arms and appendages thereto, and in the capsules, cartridges, and projectiles for the same and other fire arms.
2530	„	Joseph Scott, of the city of Glasgow, in Scotland, Glass Merchant.	Improvements in corking bottles, jars, and other receptacles.
2536	12th Nov. 1855.	Jules César Alexandre Bouillotte, of Paris, in the empire of France.	An improved letter copying press.
2537	„	Louis Joseph Frederic Margueritte, Chemist, of Paris, in the empire of France.	Certain improvements in the manufacture of vitreous products.
2538	„	William Kemble Hall, of 36, Cannon Street, London, Engineer.	The prevention of steam boiler explosions.
2542	„	John Yuil Borland, of the city of Manchester, in the county of Lancaster.	Improvements in spinning and machinery for preparing and spinning fibrous materials.
2546	„	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in casting metals.
2551	13th Nov. 1855.	Fischer Alexander Wilson, of Adelphi Chambers, London, Gentleman.	Improvements in engines, machinery, and apparatus for exhausting, forcing, and lifting, for propelling on land and water.
2554	„	William Webb, and John Webb, junior, of Birmingham, in the county of Warwick, Builders, and James Catstree, of the same place, Brassfounder.	Improvements in attaching door knobs to spindles.
2557	„	Robert Murdoch, of Cranhill, Glasgow, in the county of Lanark, North Britain, Surveyor.	Improvements in agricultural apparatus for sowing seeds and depositing manure.
2558	„	William Foster, of Black Dike Mills, near Bradford, in the county of York, Spinner and Manufacturer.	Improvements in machinery or apparatus for drying wool and other fibrous materials.
2560	14th Nov. 1855.	Henry Laxton, of the firm of William and Henry Laxton, of the Office for British and Foreign Patents, No. 19, Arundel Street, Strand, London, Architect and Civil Engineer.	Improvements in fire-arms.
2562	„	Thomas Skinner, of Sheffield, in the county of York, Silver Plater.	Improvements in producing figures or ornaments upon the surfaces of metals.
2563	„	William Barnes, of 2, Royal Exchange Buildings, in the city of London.	An improvement in connecting and supporting the ends of the rails of railways.
2565	„	Joseph Robinson, of Denton Mills, Carlisle.	Improvements in machinery for drying wheat and other grain.

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2566	14th Nov. 1855.	Cyprien Marie Tessié du Motay, of Paris.	Improvements in the treatment of fatty and oily matters.
2567	,,	Charles Goodyear, of 42, Avenue Gabrielle, Paris.	Improvements in shoes and boots when india rubber is used.
2568	,,	George Tomlinson Bousfield, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	An improved safety coal hole cover.
2571	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved manufacture of electrotype printing surfaces.
2572	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in the construction of locks.
2575	15th Nov. 1855.	Franz Duncker, of Berlin, in the kingdom of Prussia, but now of 4, King William Street, Strand.	A new instrument for electric telegraphs, called "despatch distributor," which will permit despatches of various contents being communicated at the same time to one or more stations by means of one or two line wires only.
2578	,,	William Lea, of the firm of William and John Lea, of Wolverhampton, in the county of Stafford, Manufacturer.	An improvement or improvements in taps or cocks.
2580	,,	Duncan Morrison, of Bordesley Works, Birmingham.	An improvement in the manufacture of articles with internal screws when cast iron, malleable cast iron, or cast brass is employed.
2584	16th Nov. 1855.	William Cooke, of 49, Frederick Street, Gray's Inn Road, in the county of Middlesex, Civil Engineer.	An improved apparatus for cleaning knives and other cutlery."
2585	,,	William Eassie, of the city of Gloucester, Railway Contractor.	Improvements in hammers.
2593	17th Nov. 1855.	Joseph Denton, of Pendleton, near Manchester, in the county of Lancaster.	Improvements in looms.
2595	,,	Robert Walter Swinburne, of South Shields, in the county of Durham, Plate Glass Manufacturer.	Improvements in furnaces used in the manufacture of glass.
2596	,,	Joseph Shaw, of 22, New King Street, Hull, Yorkshire.	Improvements in the prevention of accidents arising from collisions on railways.
2598	,,	George Collier, of Halifax, and James William Crossley, of Brighouse, both in the county of York.	Improvements in finishing fabrics and in treating yarns, part of which improvements is also applicable to producing ornamental effects upon other surfaces.
2600	19th Nov. 1855.	John Fleetwood, of Elm Grove House, Southsea, in the county of Southampton, Gentleman.	An improved portable apparatus for making malt, and for drying hops, corn, and other grains and seeds.
2601	,,	Josiah Pratt, of Bath Street, City Road, in the county of Middlesex, and Thomas Radcliffe, of Shaftesbury Street, Hoxton, in the said county of Middlesex.	Improvements in the manufacture of brushes.

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2604	19th Nov. 1855.	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in apparatus for measuring liquids which may also be employed as a motive-power engine.
2606	„	Jeanne Barbe Ve. Lopez, 57, Rue de Bretagne, Paris, in the empire of France.	An antibilious powder.
2613	20th Nov. 1855.	Francis Puls, of Soho Square, in the county of Middlesex, Chemist.	A new electric light and heat.
2615	„	Peter Armand le Comte de Fontaine Moreau, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent.	Improvements in apparatus for preventing horses from running away.
2616	„	Charles Frederick Clark, of the firm of Thomas and Charles Clark and Co., Iron-founders, of Wolverhampton, in the county of Stafford, and Manoah Bower, Gentleman, of Birmingham, in the county of Warwick.	Improvements in bolts and fastenings, which they propose calling "Clark and Co's. Longitudinal Wedge Bolt."
2620	„	Oliver Maggs, of Bourton Foundry, Dorset.	Improvements in machinery for thrashing and winnowing wheat and other grain.
2621	„	George Senior Tolson, Robert Henry Tolson, and Joseph Senior Tolson, all of Dalton, in the parish of Kirkheaton, in the county of York, Manufacturers, and Thomas Irving, of Mold Green, in Dalton aforesaid, Dyer.	Improvements in producing metallic lustre to yarns and fabrics.
2626	21st Nov. 1855.	Peter Armand le Comte de Fontaine Moreau, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent.	Improvements in treating fatty acids.
2627	„	William Munslow, of Miles Platting, in the county of Lancaster, Moulder, and Henry Wallwork, of the same place, Moulder.	Improvements in railways.
2628	„	Henry William Wimshurst, of St. John's Wood, in the county of Middlesex, Gentleman.	Improved machinery for cutting dovetails and tenons.
2630	22nd Nov. 1855.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, in the county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Certain improvements in bombs and other explosive projectiles whose charges are to be fired by percussion.
2632	„	George Price, of Cleveland Safe Works, Wolverhampton, in the county of Stafford, Fire-proof Safe Manufacturer.	A box, chest, or case for the preservation of parchment deeds and documents from damage by steam when placed inside an iron safe made fire-proof on the vapourizing principle, "Milner's Patent, 1840."
2640	23rd Nov. 1855.	Thomas Tuckey, of the city of Cork, Barrister-at-Law.	Modes of construction by which steam or other vapour or gas may be used as a source of motive-power, for some purposes more conveniently than hitherto and more suitably for locomotion on common roads.
2642	„	John Pursloe Fisher, of Edgbaston, near Birmingham, in the county of Warwick.	Certain improvements in the construction of the hammers of pianofortes.

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2643	23rd Nov. 1855.	JOHN HENRY HUTCHINSON, of East Retford, in the county of Nottingham, Gentleman.	Improved machinery for converting rectilinear motion into rotary motion.
2644	„	JOSEPH ELLISDON, of Liverpool, in the county of Lancaster, Designer and Cabinet Maker.	Improvements in "castors" for cabinet furniture.
2646	„	SAMUEL CUNLIFFE LISTER, of Bradford, and JAMES WARBURTON, of Addingham, both in the county of York.	Improvements in spinning.
2647	24th Nov. 1855.	JOHN ELCE, of the city of Manchester, Machine Maker, and GEORGE HAMMOND, of the same place, Watch Maker.	The employment of a new material in the manufacture of wicks for moderator lamps.
2648	„	SAMUEL RATCLIFFE CARRINGTON, of Stockport, in the county of Chester, Hat Manufacturer.	Certain improvements in the manufacture of hats.
2649	„	JEAN LOBSTEIN, of Paris, 36, Rue de l'Echiquier, Mechanical Draughtsman.	Improvements in sewing machines.
2652	„	JULIANA MARTIN, of Soho Square, London.	An improved self-acting incubator.
2654	„	HIRAM HYDE, of Truro, Nova Scotia, Gentleman.	Improvements in the manufacture of mineral oils.
2655	26th Nov. 1855.	LOUIS JOSEPH FRÉDÉRIC MARGUERITTE, Chemist, of Paris, in the empire of France.	Improvements in precipitating certain salts.
2656	„	DENIS JONQUET, of 63, Mina Road, Old Kent Road, Southwark, in the county of Surrey, Cutler.	Improvements in the blades of mechanical cutting machines, and in the blades of single or double handled cutting instruments, and in the blades of ordinary and mechanical shears and scissors, and in the handles and springs for the same.
2658	„	ENOCH HARRISON and HILTON GREAVES, of the city of Manchester, in the county of Lancaster, Manufacturers.	Improvements in the manufacture of woven fabrics.
2661	„	FREDERICK OSBOURN, of Aldersgate Street, in the city of London, Tailor.	Improved machinery for pressing, smoothing, or finishing garments or parts of garments.
2665	„	ROBERT BELL, of 93, Glassford Street, Glasgow.	Improvements in the manufacture of woven fabrics when made of wool and cotton or of wool, cotton, and silk.
2666	27th Nov. 1855.	THOMAS ALLAN, of Adelphi Terrace, in the city of Westminster, Civil Engineer.	Improvements in applying electricity.
2668	„	HIRAM HYDE, of Truro, Nova Scotia, Gentleman.	An improved manufacture of lubricating compound.
2669	„	HIRAM HYDE, of Truro, Nova Scotia, Gentleman.	An improved manufacture of lubricating oil.
2670	„	ENOCH TAYLER, of 62, Baldwin's Gardens, Gray's Inn Lane, London.	Improvements in paddle wheels for propelling vessels in water.
2671	„	CHARLES RICE, of the state of Massachusetts, of the United States of America.	A new or improved method of manufacturing boots or shoes.
2672	„	EEWARD PEYTON and DUNCAN MORRISON, of Bordesley Works, Birmingham.	Improvements in the construction of metallic bedsteads and other articles to sit or recline upon.

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2673	27th Nov. 1855.	CHARLES RICE, of the state of Massachusetts, of the United States of America.	A new or improved process of preparing cloth, so as to render it nearly, if not entirely, impervious to water, but not so to air, such cloth being particularly useful in the manufacture of boots and shoes, or various other articles of dress or utility.
2675	,,	GEORGE LOUIS STOTT, of St. George's, in the county of Gloucester.	Improvements in the manufacture of carbonate of soda.
2677	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in windlasses, capstans, and other purchases, parts of which are applicable to the transmission of motive power.
2679	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in the manufacture or preparation of india rubber and gutta percha, and in the applications thereof.
2680	,,	THOMAS WARREN, of Glasgow, in the county of Lanark, North Britain, Glass Manufacturer.	Improvements in the manufacture and moulding or shaping of glass.
2684	28th Nov. 1855.	GEORGE RICHARDSON, of Craig's Court, Charing Cross, in the county of Middlesex, Merchant, and Contractor for Railway plant and stores.	Improvements in buffer draw and bearing springs for railway carriages and waggons.
2685	,,	BENJAMIN ROSENBERG, of New Charles Street, City Road, in the county of Middlesex, Merchant.	Improvements in protecting metallic and other surfaces from corrosion and decay.
2688	,,	WILLIAM ALFRED DISTIN, of 31, Cranbourn Street, Leicester Square, in the county of Middlesex.	Improvements in cornets and other wind musical instruments.
2693	29th Nov. 1855.	THOMAS SYMONS, of Flushing, in the county of Cornwall.	Improvements in the permanent ways of railways, and in the wheels rolling thereon.
2694	,,	WILLIAM IRLAM, of the Gibralter Iron Works, Newton Heath, near the city of Manchester, Engineer.	Improvements in crossings for railways.
2695	,,	JAMES EGLESON, ANDERSON GWYNNE, of Essex Wharf, Essex Street, Strand, in the county of Middlesex, Engineer.	Improvements in instruments for indicating pressure or vacuum.
2697	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved process of manufacturing hats.
2698	,,	GEORGE NORTH, of Lewisham Road, Greenwich, in the county of Kent, Coach Builder, &c.	An improved portable apparatus for supporting and folding heads, tilts, coverings, and awnings of wheel carriages, marine vessels, goods and ways.
2700	30th Nov. 1855.	JOHN RAMSBOTTOM, of Accrington, in the county of Lancaster, Engineer, and JOHN CHARLES DICKINSON, of Blackburn, in the same county, Machine Maker.	Improvements in machinery or apparatus for measuring and registering water and other fluids, and obtaining motive power from the same.
2702	,,	EDWARD DANIEL JOHNSON, of Wilmington Square, in the county of Middlesex, Watch Manufacturer.	An improvement in the construction of attachable seconds watches.

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2703	30th Nov. 1855.	Auguste Dusautoy, of Boulevart des Italiens, Paris, in the empire of France, and of 46, Regent Street, Middlesex.	New and useful machinery for cutting cloth and other substances.
2704	,,	Richard Hancock, of Great Polgooth Mine, in the parish of St. Austell, Cornwall.	Cleaning and separating ores of every description when brought into a state of low pulverization.
2711	1st Dec. 1855.	Sir Charles Edward Grey, residing at No. 38, Rue du Mont Thabor, in the city of Paris, and empire of France.	The use of a new vegetable material for raising the nap and dressing woollen cloths and webs and tissues.
2713	,,	William Augustus Woodley, of the Lithographic and General Printing Offices, Taunton, in the county of Somerset.	Improvements in the manufacture of paper bags.
2714	3rd Dec. 1855.	George Harrison, of Burnley, in the county of Lancaster, Overlooker, and William Mitchell the younger, of Hoarstone Lodge, near Burnley aforesaid, Wool Stapler.	Improvements in machinery for roving, spinning, and winding worsted, cotton, and other fibrous materials.
2715	,,	David Anderson, of Strandtown House, in the county of Down, Ireland, Merchant.	Improvements in machinery or apparatus for the preparation or manufacture of felt and other fibrous materials.
2717	,,	Frederick Walton, of Wolverhampton, in the county of Stafford, Manufacturer.	An improvement or improvements in papier mâché trays.
2718	,,	Westley Richards, of Birmingham, in the county of Warwick, Manufacturer, and Joseph Rock Cooper, of Birmingham aforesaid, Manufacturer.	An improvement or improvements in breech-loading fire-arms.
2721	,,	Alexander Watt, of 83, Dean Street, Soho, Electro Metallurgist.	An improvement in coating iron and steel with zinc.
2723	4th Dec. 1855.	Samuel Garn, of Sevenhampton, in the county of Wiltshire, Wheelwright.	An improved tipping apparatus, applicable to carts and other vehicles.
2725	,,	William Hartcliffe, of Salford, in the county of Lancaster, Machine Maker.	Certain improvements in weighting the top rollers of machinery used in preparing and spinning cotton and other fibrous materials.
2726	,,	William Foot, of Wellington, in the county of Somerset.	An instrument for moving and stopping trucks and other carriages on railways.
2728	,,	Jean Davoust, of the Hotel des Invalides, Paris.	Improvements in cartridges.
2730	,,	John Marsh, of Nottingham - -	Improvements in the manufacture of looped and piled fabrics.
2731	5th Dec. 1855.	Adam Bullough, of Blackburn, in the county of Lancaster, Manufacturer.	An improved lubricator for looms.
2733	,,	William George Plunkett, of Belvidere Place, Dublin, Gentleman, and John Bower, of Lower Ormand Quay, Dublin, Civil Engineer.	The manufacture of fibres or threads for textile fabrics and cordage, also of paper mill-board and other similar boards from plants or portions of plants not hitherto used for these purposes.
2734	,,	William Nunn, of No. 7, Church Street, Hackney, Middlesex, Picture Frame and Looking Glass Manufacturer.	An improved table, wash stand, mirror, &c. combined in one piece of furniture.

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2736	5th Dec. 1855.	WILLIAM BEATSON, of Rotherham, in the county of York, Manufacturing Chemist.	Improvements in treating borates of lime and magnesia, and a new composition formed therewith suitable for glazing and other purposes for which borax has been or may be employed.
2737	,,	CAESAR HEILMANN, of 22½, Milk Street, Cheapside, London, Engineer.	Improvements in grates or furnaces for steam boilers.
2739	,,	WILLIAM HENRY SMITH, of Wellington Chambers, Cannon Street West, in the city of London, Merchant.	An improved construction of fastening, applicable to gaiters, stays, and other like articles.
2740	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in apparatus for dressing cloth.
741	6th Dec. 1855.	JONAS MARLAND, of Sun Vale Iron Works, Walsden, in the county of Lancaster, and SAMUEL MARLAND, also of Sun Vale Iron Works, Walsden, in the county of Lancaster.	Certain improvements in power looms.
2743	,,	WILLIAM GEORGE WILSON, of Penton Cottage, Penton Place, Newington Butts, Zinc and Tin Plate Worker.	A pneumatic moderator.
2744	,,	WILLIAM MOSLEY, of Salford, in the county of Lancaster, Bleacher.	Improvements in machinery or apparatus for stretching and finishing woven fabrics.
2747	,,	EBENEZER POULSON, of 21, Judd Street, Brunswick Square, in the county of Middlesex, Marine Artist.	A new constructed engine to be worked either by steam or principally by manual labour.
2752	,,	JOHANNES NEUENSCHWANDER, of the Canton of Bern, in Switzerland, and Proprietor of the Whey Establishment of Harostehude, near Hamburg.	Certain improvements in the process of preparing what is called "Swiss whey" from milk.
2754	,,	THOMAS RUSSELL CRAMPTON, of the Adelphi, in the county of Middlesex, Civil Engineer.	An improvement in furnaces, and in apparatus for supplying fuel thereto.
2755	,,	ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road.	Improvements in apparatus for generating steam.
2757	,,	ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road.	Improvements in warming buildings and apartments by hot water.
2758	7th Dec. 1855.	JEAN JOSEPH EMILIEN FRANÇOIS KUISTER, of Lyons, in the empire of France.	Improvements in raw silk winding machinery.
2760	,,	HENRY HART, of No. 5, Waterloo Crescent, Dover, in the county of Kent, Gentleman.	A ship leakage indicator.
2762	,,	JAMES GARDNER, of Plaistow, in the county of Essex, Gentleman, HENRY GARDNER, of Leytonstone Road, in the same county, Gentleman, and JOHN CAREY GARDNER, of Leytonstone Road aforesaid, Gentleman.	Improvements in glasses, as applied for the transmission of light.
2764	,,	CHARLES LENNY, of Croydon, in the county of Surrey.	Improvements in carriages.
2766	,,	JOHN ALLEN WILLIAMS, of Baydon, in the county of Wilts, Farmer.	Improvements in machinery or apparatus for cultivating land.

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2772	8th Dec. 1855.	Joseph Hacking, of Bury, in the county of Lancaster, Machinist.	Improvements in machinery for supplying fuel and air to furnaces.
2773	,,	Charles Francois Jules Fonrobert, of Berlin, in the kingdom of Prussia.	An artificial leech and a sucker.
2774	,,	John Radcliffe, of Rotherham, in the county of York, Grocer, and Thomas Vickers Favell, of the same place, Gentleman.	Improvements in machinery or apparatus for cutting sugar and other substances.
2775	,,	William Norton, of Kirkburton, in the county of York, Manufacturer.	Improvements in weaving pile fabrics.
2778	,,	Andrew Maclure, of 37, Walbrook, in the city of London.	Improvements in lithographic printing presses.
2780	10th Dec. 1855.	John Hall, the younger, of Mouut Pleasant, Walmersley, near Bury, in the county of Lancaster, Spinner and Manufacturer.	Improvements in Jacquard looms.
2782	,,	Thomas Heppleston, of Manchester, in the county of Lancaster, Machinist, and John Hunter, of the same place, Machinist.	Certain improvements in machinery or apparatus for stretching and finishing yarns or threads.
2784	,,	David Parsons, of Pensnett, near Dudley, in the county of Worcester.	An improved break for arresting or retarding at will the motion of locomotive and other engines and revolving machinery.
2786	,,	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in manufacturing gas from peat, and in treating hydrogen gas in order to render it illuminating.
2787	,,	Josiah George Jennings, of Great Charlotte Street, Blackfriars Road, in the county of Surrey.	An improvement in the arrangement of the overflow pipes of baths, wash-hand basins, and other vessels.
2788	,,	Josiah George Jennings, of Great Charlotte Street, Blackfriars Road, in the county of Surrey.	Improvements in connecting earthenware, rain pipes, and soil pipes of water-closets, and in valve water-closets.
2789	,,	Josiah George Jennings, of Great Charlotte Street, Blackfriars Road, in the county of Surrey.	An improvement in the rising pipe and suction valve of pumps.
2790	11th Dec. 1855.	Bernard Hughes, of Rochester, New York, United States, but now of 67, Gracechurch Street, London.	A machine for making spokes and tool handles.
2791	,,	Bernard Hughes, of Rochester, New York, United States, but now of 67, Gracechurch Street, London.	A knot-tying sewing machine.
2793	,,	Jean Marie Preaud, of Lyons, in the empire of France.	Certain improvements in india-rubber springs.
2794	,,	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Certain improvements in mariners' and land compasses.
2795	,,	John Horsley, of Cheltenham, in the county of Gloucester, Analytical Chemist.	Certain means of treating quinine and iodine, and other mineral medicines, in order to cause them to combine with cod-liver oil, or any other fish oil, or with seed oil.

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2798	11th Dec. 1855.	Reuben Levy, of Manchester, in the county of Lancaster, Manufacturing Clothier.	An improvement in wearing apparel.
2801	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved machinery for manufacturing bolts.
2802	,,	Alexandre Forot, of Paris.	Improvements in parasols.
2803	,,	Samuel Clarke, of Albany Street, Regent's Park, in the county of Middlesex.	Improvements in lanterns for affording light, and for cooking.
2804	,,	Rogers Ruding, of 51, Bunhill Row, in the city of London.	An improvement in printing silks and other woven fabrics with gold and other metal leaf or powder.
2805	12th Dec. 1855.	Robert W. Davis and Daniel Davis, of Yellow Springs, in the county of Greene, and state of Ohio.	An improved vice.
2806	,,	Martin Billing, of Birmingham, in the county of Warwick, Stationer, and Walter George Whitehead, of Birmingham aforesaid, Manufacturer.	A new or improved waterproof fabric or material.
2807	,,	Isaac Beardsell, of the firm of Isaac Beardsell and Company, Huddersfield, in the county of York, Manufacturer.	Improvements in the finishing of mohair cloths and other textile fabrics, and in the machinery employed for that purpose.
2808	,,	George Heron Hay and David Syme Hay, both of Edinburgh, in the county of Midlothian, North Britain, Photographic Artist.	Improvements in photographic pictures.
2809	,,	Robert Midgley, of Salterlee Mill, in the Parish of Halifax, and county of York, and George Collier, of Halifax, in the said county.	Improvements in preparing worsted, mohair, alpaca, cotton, and other yarns.
2810	,,	William Leighton, of the town and county of Newcastle-upon-Tyne, General Broker.	Improvements in paddle wheels.
2811	,,	Richard Holben, of Barton, Cambridgeshire.	Improvements in apparatus for chopping barley.
2812	,,	Thomas Rickett, of Stoney Stratford, in the county of Buckingham, Engineer.	Improvements in pressure gauges.
2814	13th Dec. 1855.	David Hart, of Trinity Square, in the county of Middlesex, Gentleman.	Improvements in signalling or communicating between parts of a railway train, and in the instruments and apparatus employed for such purpose.
2815	,,	Alphonse Louis Poitevin, Civil Engineer, of Paris, in the French empire.	Improved photographic printing.
2816	,,	Alphonse Louis Poitevin, Civil Engineer, of Paris, in the French empire.	Improved photographic engraving.
2822	,,	George Hall Nicoll, of Dundee, in the county of Forfar, North Britain, Ironmonger.	Improvements in fire-places or heating apparatus.
2823	14th Dec. 1855.	John Walter Friend, of Freemantle, Southampton, Watch and Clock Maker.	An improved registering log and deep sea lead.

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2825	14th Dec. 1855.	Alfred Krupp, of Essen, in the kingdom of Prussia, Cast Steel Manufacturer.	Improvements in railway and other wheels, and in the method of and machinery for manufacturing the same.
2826	,,	George Tomlinson Bousfield, of Sussex Place, Loughborough Road, in the county of Surrey.	Improvements in machinery for the manufacture of cut pile fabrics.
2827	,,	Charles John Todd and Robert Pinkney, of the firm of Blackwood and Co., Ink Manufacturers, Long Acre, in the county of Middlesex.	A balance pen.
2828	,,	Edward Orange Wildwan Whitehouse, of Brighton, in the county of Sussex, Surgeon.	Improvements in apparatus for measuring fluids.
2829	,,	Peter Haworth, of Manchester, in the county of Lancaster, Patent Leather Manufacturer, and Alexander Forrest, of Birmingham, in the county of Warwick, Gentleman.	An improvement in the manufacture of belts, bands, braces and other similar articles of wearing apparel.
2830	15th Dec. 1855.	William Henry Newman, of 45, Cannon Street Road, London, in the county of Middlesex, Corn Dealer.	An improved fire-lighter.
2832	,,	Thomas Warren, of Glasgow, in the county of Lanark, North Britain, Glass Manufacturer.	Improvements in the manufacture and moulding or shaping of glass.
2833	,,	John Aspinall, of Limehouse, in the county of Middlesex, Civil Engineer.	Improvements in machinery for curing sugar and extracting moisture therefrom, parts of which are applicable to separating liquids and moisture from substances containing the same.
2834	,,	Edward Brown Hutchinson, of Moorgate Street, in the city of London, Artist.	An improved apparatus for forming and cutting elliptical figures.
2835	,,	Ebenezer Rogers, of Abercarn, in the county of Monmouth, Mining Engineer.	Improvements in safety doors for mines.
2836	,,	George Coats, of Glasgow, in the county of Lanark, North Britain, Coal Master.	Improvements in horse shoes and in attaching the same to the horses' feet.
2837	,,	Agnes Wallace, of Nether Place, Bleach Works, in the county of Renfrew, North Britain, and John Wallace, of the same place, Bleachers.	Improvements in bleaching, washing or cleansing textile fabrics and materials.
2839	,,	William Clay, of Liverpool, in the county of Lancaster, Iron Manufacturer.	Improvements in the manufacture of bar iron.
2842	,,	Paul Marie Salomon, of Rue Neuve St. Eustache, Jacques Loir Montgazan, of Rue de Bondy, and Charles Marie Joseph de Flers, of Rue Lafitte, all in Paris, in the empire of France.	Improvements in the manufacture of gas from coals, and in the production of bituminous coke in that manufacture, and also in the apparatus connected therewith.
2843	17th Dec. 1855.	Samuel Fletcher Cottam, of the city of Manchester, Machinist.	Certain improvements in mules for spinning cotton and other fibrous materials.
2845	,,	Charles Bracegirdle, of Congleton, in the county of Chester, Silk Manufacturer.	Improvements in the manufacturing of bolting cloths employed in dressing flour.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2846	17th Dec. 1855.	HENRY STEWART, of Baker Street, in the county of Middlesex, Gentleman.	A machine or apparatus for cleaning and polishing forks, spoons, and other like curved articles.
2848	,,	OMROD COFFEEN EVANS, Doctor of Medicine, of the city of New York, United States of America.	Improvements in digging machinery.
2850	,,	GEORGE GOTTS GOLDING, at Messrs. W. Cubitt's and Co., Gray's Inn Road, London.	Improvements in boilers for heating, warming, or raising steam.
2851	,,	WILLIAM SANGSTER, of Cheapside, in the city of London.	Improvements in the manufacture of stays and corsets.
2853	,,	WILLIAM HEMSLEY, of Melbourne, in the county of Derby.	An improvement in the manufacture of elastic pile fabrics.
2855	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in ships' tillers.
2859	18th Dec. 1855.	ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	An improved harvesting machine.
2860	,,	JOHN PIERRPONT HUMASTON, of Newhaven, in the United States, Civil Engineer.	Improvements in instruments for composing and transmiting telegraph messages.
2862	,,	DAVID LLOYD PRICE, of Beaufort, in the county of Brecknock, Electrical Engineer.	Improvements in electric telegraphs and in appliances connected therewith as applied to railway trains and fixed stations.
2863	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved mode of manufacturing wrought iron cannon.
2864	,,	HIRAM HYDE, of Truro, Nova Scotia, Gentleman.	An improved mode of purifying alcohol or alcoholic spirits.
2867	,,	FREDERICK ROBERT AUGUSTUS GLOVER, of Bury Street, St. James, in the county of Middlesex, Master of Arts.	An improved instrument or apparatus for taking angles and measuring lines, surfaces, and solids, and ascertaining the variation of the needle.
2868	,,	FREDERICK ROBERT AUGUSTUS GLOVER, of Bury Street, St. James, in the county of Middlesex, Master of Arts.	Improvements in the construction of breakwaters, sea walls, and other structures, or foundations of structures, which lie partially or entirely under water.
2870	19th Dec. 1855.	GEORGE ROSS, of Birmingham, in the county of Warwick, Engineer, and THOMAS WILKES, of Birmingham aforesaid, Machinist.	New or improved machinery for the manufacture of bolts, rivets, spikes, screw blanks, screws, nuts for screws, and washers.
2871	,,	RICHARD RUSTON, of Birmingham, in the county of Warwick, Coach Maker.	Improvements in the construction of anchors and appendages to be used therewith.
2874	,,	HENRY ROBERT ABRAHAM, of 11, Howard Street, Strand, in the county of Middlesex.	Improvements in carriages and in certain appurtenances and appendages which belong to those used as hospital conveyances or ambulances.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2876	20th Dec. 1855.	Robert Walker, of Eccleston, near Prescott, in the county of Lancaster, Colliery Viewer.	Improvements in applying power to, and in machinery for raising and lowering coals and other articles from and into mines.
2878	,,	Andrew Shanks, Engineer, 6, Robert Street, Adelphi, Westminster.	Certain improvements in instruments for indicating pressures.
2879	,,	James Fleming, junior, of Newlandsfields, in the county of Renfrew, North Britain, Bleacher.	Improvements in bleaching, washing, cleansing, and preparing textile fabrics and materials.
2880	,,	Dundas Smith Porteous, of the town of Paisley, in the county of Renfrew, Scotland.	Regulating the pressure of gas, steam, water, or other fluids.
2881	,,	Evan Evans, of South Wales - -	Improvements in combining and fixing railway bars.
2883	,,	Philip Antrobus, of Chepstow, in the county of Monmouth, Gentleman.	Improvements in preserving and packing flour.
2884	,,	John Barcroft, of Hanley, in the county of Stafford, Basket Maker.	An improvement in the materials to be used in the manufacture of baskets and basket work.
2886	,,	Louis Rudolph Bodmer, of 2, Thaives Inn, in the city of London.	Improvements in hydraulic seed crushing machines or oil presses.
2887	21st Dec. 1855.	David Dunne Kyle, of Albany Street, Regent's Park, in the county of Middlesex.	A method of communicating motion.
2888	,,	Jean Baptiste Emile Saffroy, Banker, of Bordeaux, in the empire of France.	An improved break for railway carriages
2889	,,	John Watson, of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in the manufacture or production of articles of ladies' dress.
2896	,,	Henry Francis, of 456, West Strand, in the county of Middlesex, Engineer.	Improvements in apparatus for cutting out parts of garments.
2897	,,	Charles Glover, of the city of Lincoln, Carpenter and Joiner.	Removing snow from a line of railways.
2898	,,	William Joseph Curtis, of No. 1, Sebbon Street, Islington, Civil Engineer.	Improvements in fog signals, and in laying the same upon the rails of railways.
2899	22nd Dec. 1855.	John Gedge, of No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agent.	Improvements in cutting and folding paper to form letters or notes and envelopes in one piece.
2900	,,	Myles Kennedy, of Ulverstone, in the county of Lancaster, and Thomas Eastwood, of Preston, in the same county.	Improvements in pump buckets, which improvements are also applicable to lift pumps, air pumps, and all similar apparatus.
2901	,,	James Newman, of Birmingham, in the county of Warwick, Manufacturer, and William Whittle, of Smethwick, in the county of Stafford, Engineer.	Improvements in the manufacture of hooks and eyes, and in machinery to be employed in the manufacture of the hooks aforesaid.
2902	,,	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in furnaces for steam boilers and other heating purposes.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2903	22nd Dec. 1855.	William Stevenson, of Lochwinnoch, in the county of Renfrew, North Britain, Manufacturer, and William Crawford, of the same place, Wool Spinner.	Improvements in machinery or apparatus for carding or preparing fibrous materials.
2904	,,	Christopher Dresser, of Waterloo Cottage, Waterloo Street, Hammersmith.	Improvements in the mode of effecting what is called "Nature printing."
2906	,,	Edward Rowcliffe, of 2, Gloucester Terrace, West Grove, Blackheath.	Improvements in the manufacture of blocks or slabs for paving and building purposes.
2908	,,	David Dick, Engineer, of Paisley, in the county of Renfrew, in Scotland.	A new and improved regulator for gas.
2910	24th Dec. 1855.	Frederic Holdway, of No. 12, Mount Street, Grosvenor Square, in the county of Middlesex, Coach Maker.	Improvements in carriages and various parts of the same.
2912	,,	Thomas Cowburn and George Walker Muir, both of the city of Manchester, in the county palatine of Lancaster, Engineers.	Improvements in steam boilers, and in valves and parts connected therewith.
2913	,,	William Symons, Jack Maker, of Tavistock, in the county of Devon.	Improvements in the suspension roasting jack.
2916	,,	John Barton, of Stockport, in the county of Chester, Shuttle Manufacturer.	Improvements in shuttles or shuttle tongues.
2918	26th Dec. 1855.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Certain improvements in railway axle-boxes.
2921	,,	Frank Clark Hills, of the Chemical Works, Deptford.	Improvements in economizing fuel.
2923	,,	Thomas Duppa Duppa, of Longville, in the county of Salop.	Improvements in generating and heating steam.
2924	,,	David McCallum, of 3, Victoria Place, Stonehouse, in the county of Devon.	Improvements in electric telegraphs.
2928	27th Dec. 1855.	Alfred Krupp, of Essen, in the kingdom of Prussia, Cast Steel Manufacturer.	Certain improvements in guns and gun carriages.
2929	,,	Nicholas Douglass, of St. George's in the Fields, in the county of Middlesex, Engineer.	Improvements in the construction of lighthouses, beacons, piers, and other similar erections.
2940	28th Dec. 1855.	Henry George Baily, of the Vicarage, Swindon, in the county of Wilts, Clerk.	Improvements in machinery for digging and forking land.
2942	29th Dec. 1855.	Lewis Harrop, Cotton Spinner, Samuel Barlow, Overlooker, and Alexander Boyd, Machine Maker, all of Oldham, in the county of Lancaster.	Certain improvements in self-acting mules for spinning and doubling cotton and other fibrous materials.
2943	,,	Herbert Redfern, of Shelton, in the county of Stafford.	Improvements in skates.
2946	,,	William Lange, of 56, Tachbrook Street, in the county of Middlesex, Merchant.	Improvements in biscuit ovens.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2947	29th Dec. 1855.	William Brown, of Glasgow, in the county of Lanark, North Britain, Merchant.	Improvements in cooking and culinary vessels and utensils, and in the application and conveyance of heat.
2948	„	George Royds Birch, of Paddington -	A form and folding desk combined, adapted for the use of schools.
2956	31st Dec. 1855.	Archibald Turner, of Leicester, Elastic Web Manufacturer.	Improvements in the manufacture of looped fabrics.
2957	„	James Cochran Stevenson and John Williamson, of South Shields, Alkali Manufacturers.	Improvements in the manufacture of soda and alkali.

FOREIGN PATENTS.



BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 2nd December, 1858.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 519 of this Journal.)

1. F. J. Ribes, of Brussels, for an imported invention of "Improvements in canvass for tapestry."—Dated 29th September, 1858.—(French Patent, 21st July, 1858.)
2. L. Schilgen, of Liége, for "A composition of silvered and gilt soap."—Dated 30th October, 1858.
3. Ch. Wauters-Roels, of Ghent, for "A filter with a moderator-reservoir."—Dated 3rd November, 1858.
4. J. J. Rissack, of Herstal, for "Modifications in fastening breech-loading guns."—Dated 5th November, 1858.
5. L. N. de Meckenheim, of Ixelles, for "A kitchen range."—Dated 6th November, 1858.
6. A. Bauquin, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A system of machines for threshing corn."—Dated 6th November, 1858.—(French Patent, 2nd June, 1858.)
7. Ph. Fromont, of Châtelineau, a Patent of Improvement for "Modifications in his hand cock."—Dated 6th November, 1858.—(Original Patent, 12th June, 1858.)
8. P. Van Hercke, of Ostende, for "An apparatus for preventing smoke from coming down the chimney."—Dated 8th November, 1858.
9. Robert and Co., of Liége, for "A system of breech-loading fire-arms."—Dated 5th November, 1858.
10. H. Michel, of Liége, a Patent of Improvement for "Additions to his system of brushes."—Dated 6th November, 1858.—(Original Patent, 26th October, 1858.)
11. E. C. Shepard, of Antwerp, for "A system of electrical lamps."—Dated 6th November, 1858.
12. F. Del Marmol, of Vedrin, for "An apparatus for evaporating soda salts."—Dated 8th November, 1858.
13. J. F. Lefebure, of Brussels, a Patent of Improvement for "Additions to his process for retting textile substances."—Dated 8th November, 1858.—(Original Patent, 6th January, 1857.)
14. Ed. Myers and V. Van Anghem, of Brussels, for "A machine for crushing printing ink and colours."—Dated 8th November, 1858.
15. Candeil, of Brussels, for "Manufacture of preserved vegetables."—Dated 8th November, 1858.
16. F. Couregelongue, represented by X. Raclot of Brussels, for "A safety apparatus against the explosion of steam boilers."—Dated 8th November, 1858.
17. Arbault Brothers, represented by X. Raclot, of Brussels, for "Manufacture of files."—Dated 8th November, 1858.
18. N. S. Dodge, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the treatment of the waste of vulcanized india rubber."—Dated 8th November, 1858.—(French Patent, 3rd November, 1858.)
19. A. Hepner and Co., represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of circular figured tissues."—Dated 8th November, 1858.—(French Patent, 14th October, 1858.)
20. J. P. E. Massière, represented by H. Biebuyck, of Brussels, for an imported invention of "Applying waterproof metallic paper, called 'tinned paper.'"—Dated 8th November, 1858.—(French Patent, 1st September, 1858.)
21. E. Heckscher, represented by H. Biebuyck, of Brussels, for an imported invention of "A purifying apparatus for separating coal, schist, and other strange substances."—Dated 8th November, 1858.—(French Patent, 13th October, 1858.)
22. G. Alton and J. Fernie, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the construction of boilers and other vessels resisting pressure."—Dated 8th November, 1858.—(French Patent, 21st October, 1858.)
23. A. J. A. Allié, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of instruments for measuring the dimension of heads for hats."—Dated 8th November, 1858.—(French Patent, 2nd November, 1858.)
24. E. Cuvelier, represented by H. Biebuyck, of Brussels, for "A system of miners' lamps."—Dated 8th November, 1858.
25. A. Bouillet, of Nimy-Maisières, for "A mill for grinding the bark of oaks."—Dated 9th November, 1858.
26. G. Coulon, represented by L. Pelletier, of Hornu, for an imported invention of "A rotary steam engine."—Dated 9th November, 1858.—(French Patent, 8th July, 1858.)
27. L. Pelletier, G. Coulon, and Alf. Doulceron, of Hornu, for an imported invention of "A grease-cock for steam engines."—Dated 9th November, 1858.—(French Patent, 6th September, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

28. A. Cabany, of Mons, for "Double wedges for railroads."—Dated 8th November, 1858.

29. J. Michaux and Co., represented by L. Pelletier, of Hornu, for "A grease-cock applicable to pivots of moving arbors."—Dated 9th November, 1858.

30. Ed. Tomlinson, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of pirn-tubes for taking in thread, and forming spools for weaving."—Dated 10th November, 1858.—(English Patent, 28th April, 1858.)

31. J. Herman, of Souveraine-Wandre, for "A system of breech-loading fire-arms."—Dated 10th November, 1858.

32. C. P. P. Hecht, represented by H. Biebuyck, of Brussels, for an imported invention of "A kind of smoking pipes."—Dated 11th November, 1858.—(French Patent, 4th November, 1858.)

33. H. J. Masse, of Leuze, for "A process for discolouring beetroot-juice."—Dated 12th November, 1858.

34. Alf-Roux, represented by L. N. de Meckenheim, of Ixelles, a Patent of Improvement for "Manufacture of artificial marble."—Dated 12th November, 1858.—(Original Patent, 23rd October, 1858.)

35. C. A. de Cappot and A. M. Jarriant, represented by H. Biebuyck, of Brussels, for an imported invention of "A water-meter."—Dated 12th November, 1858.—(French Patent, 11th November, 1858.)

36. W. Harding, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in revolvers."—Dated 12th November, 1858.—(English Patent, 24th May, 1858.)

37. R. Jobson, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in apparatus for making moulds for casting moulds and other articles."—Dated 12th November, 1858.—(English Patent, 12th August, 1858.)

38. F. W. Mowbray and J. Broadley, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in various parts of weaving looms."—Dated 12th November, 1858.—(English Patent, 8th April, 1858.)

39. L. J. Verheggen, represented by A. J. Verheggen, of Houffalize, for "A thrashing machine."—Dated 12th November, 1858.

40. J. Trocquenet, of Mons, for "An hydraulic and atmospheric press applicable as a motor."—Dated 11th November, 1858.

41. Mundo, Briollet-Dumontet and Co., represented by J. Benoist, of St. Josse-ten-Noode, for "A chemical and mechanical means of obtaining heat."—Dated 15th November, 1858.

42. P. G. Chaltin, of Alost, for "An apparatus for absorbing the sulphurous acid issuing from vats containing hops."—Dated 15th November, 1858.

43. D. Fryer, T. L. C. Watt, and W. Holmes, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in tanning."—Dated 15th November, 1858.—(English Patent, 3rd of November, 1858.)

44. M. C. Gobert-Lebrun, represented by A. Depuichault, of Schaerbeek, for "Tournure trousers or drawers."—Dated 15th November, 1858.

45. S. Krotkoff, represented by A. Depuichault, of Schaerbeek, for "A safety apparatus against thieves."—Dated 15th November, 1858.

46. E. H. Goddier, represented by A. Depuichault, of Schaerbeek, for "A mode of assembling pipes of iron, gutta percha, or other substances."—Dated 15th November, 1858.

47. P. A. de Gemini, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of tallow and composite candles."—Dated 16th November, 1858.—(French Patent, 17th December, 1857.)

48. Ed. Fairburn, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for carding wool and other filamentous substances."—Dated 16th November, 1858.—(English Patent, 11th May, 1858.)

49. J. L. Vallée, represented by H. Biebuyck, of Brussels, for an imported invention of "An economical kneading machine."—Dated 16th November, 1858.—(French Patent, 23rd September, 1858.)

50. F. Blanckart, of Liége, a Patent of Improvement for "Modifications in breech-loading guns."—Dated 13th November, 1858.—(Original Patent, 1st June, 1858.)

51. R. P. Paris-Paris, of Battignies, for "An iron stop-plank with a double cross."—Dated 16th November, 1858.

52. R. P. Paris-Paris, of Battignies, for "A double square iron stop-plank."—Dated 16th November, 1858.

53. L. Giordano, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in fishing nets."—Dated 17th November, 1858.—(French Patent, 8th May, 1857.

54. G. J. Bourbouze, represented by O. Daillencourt, of Brussels, for an imported invention of "A system of breaks applicable to all vehicles."—Dated 17th November, 1858.—(French Patent, 8th November, 1858.)

55. A. Berson and J. Beaujanot, represented by O. Daillencourt, of Brussels, for an imported invention of "A mode of advertising."—Dated 17th November, 1858.—(French Patent, 26th October, 1858.)

56. A. L. D. Favier, represented by O. Daillencourt, of Brussels, for an imported invention of "A process for mounting and strengthening tanned leather."—Dated 17th November, 1858.—(French Patent, 27th May, 1858.)

57. P. G. Antheunis, of Overboulacre-lez-Grammont, for "A machine for arranging matches in frames for being manufactured."—Dated 18th November, 1858.

58. V. Delhausse, of Liége, for "A composition for protecting metal pens from oxidation."—Dated 17th November, 1858.

59. Aug. Detombay, of Marcinelle, for "A system of turn-tables for railways."—Dated 17th November, 1858.

60. N. Libotte, of Gilly, for "A mechanism of crochets for loading and unloading carts used in mining."—Dated 17th November, 1858.

61. N. Libotte, of Gilly, a Patent of Improvement for "Improvements in breaks for stopping or retarding the motion of extraction machines."—Dated 17th November, 1858.—(Original Patent, 16th August, 1858.)

62. N. Libotte, of Gilly, for "A system of eccentrics for railways."—Dated 17th November, 1858.

63. N. Libotte, of Gilly, a Patent of Improvement for "Modifications in his system of parachutes for mines."—Dated 17th November, 1858.—(Original Patent, 23rd June, 1858.)

64. H. I. Van-Eycken, of Brussels, for "Manufacture of springs for crinoline petticoats and for a machine for obtaining those products."—Dated 18th November, 1858.

65. Lecerf, Bauwens, and Co., represented by X. Raclot, of Brussels, a Patent of Improvement for "Additions to his mode of manufacturing artificial whalebone."—Dated 18th August, 1858.—(F. P. Roussel's original Patent, 18th August, 1857.)

66. J. C. Boisneau, represented by H. Biebuyck, of Brussels, for an imported invention of "A moveable horse-gin." — Dated 18th November, 1858.—(French Patent, 13th November, 1858.)

67. H. Bouchet, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A bleaching process applicable to linen and cotton tissues."—Dated 18th November, 1858.—(Original Patent, 26th November, 1856.)

68. A. Grivel, jun., and J. F. V. Mouilleron, represented by H. Biebuyck, of Brussels, for an imported invention of "An improved loom for the manufacture of lace, braid, and net-work."—Dated 18th November, 1858.—(French Patent, 8th November, 1858.)

69. L. Orts, represented by H. Biebuyck, of Brussels, for "An apparatus for introducing certain substances into boilers for removing their incrustations."—Dated 18th November, 1858.

70. A. F. Talma and J. J. Noël, of Brussels, for "A process for smelting aluminium and applying the latter."—Dated 19th November, 1858.

71. V. V. Falour, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A system of collars for traction horses." — Dated 19th November, 1858. — (French Patent, 5th August, 1858.)

72. H. Petitjean, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A system of iron Venetian blinds." — Dated 19th November, 1858. — (French Patent, 12th May, 1857.)

73. J. Tenaud, represented by A. Depuichault, of Schaerbeek, for an imported invention of "Manufacture of refractory bricks."—Dated 19th November, 1858. — (French Patent, 29th May, 1858.)

74. J. Britton, of Ledeberg-lez-Gand, for "A system of pipes of stretched iron for heating hothouses, hospitals, and other places."—Dated 12th November, 1858.

75. J. Sidders, of Ghent, for "A geographical chronometer."—Dated 17th November, 1858.

76. H. A. Archereau and P. E. Conillard, of Charleroi, for "Obtaining steam of water, superheated steam, air and hot gases."—Dated 19th November, 1858.

77. Ph. Fromont, of Chatelineau, for "A ball and socket system applicable to lomotives."—Dated 20th November, 1858.

78. C. J. B. Dubois, of Arguennes, for "A cooling apparatus of blue stone for breweries."—Dated 20th November, 1858.

79. C. Martin, of Pepinster, for "Applying endless cloth to machines for carding wool and other filamentous substances."—Dated 20th November, 1858.

80. L. J. Heuzé, of Hodimont, for "Improvements in looms for weaving by means of several shuttles."—Dated 20th November, 1858.

81. L. Faraut, represented by A. Hennelle, of Brussels, for an imported invention of "A saw with three blades, and a rectilinear, alternate, or continuous progression."—Dated 20th Novemher, 1858.—(French Patent, 20th October, 1858.)

82. L. Faraut, represented by A. Hennelle, of Brussels, for an imported invention of "A moveable crane with a jointed jib and vertical rotation."—Dated 20th November, 1858.—(French Patent, 20th October, 1858.)

83. J. Journeaux, represented by Masson-Fouquet, of Brussels, for "Manufacture of flexible pipes coated internally and externally with an impervious substance."—Dated 20th November, 1858.

84. F. Vandooren, of Ghent, for "Trelliswork of flat iron."—Dated 19th November, 1858.

85. Ch. Lungley, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the construction of portable vessels and boats."—Dated 20th November, 1858.—(English Patent, 23rd April, 1858.)

86. S. Davey and A. L. Chanu, represented by H. Biebuyck, of Brussels, for an imported invention of "A composition for exploding mines."—Dated 20th November, 1858.

87. A. J. A. Allié, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to his system of instruments for measuring the dimension of the head for hats."—Dated 20th November, 1858.—(Original Patent, 8th November, 1858.)

88. Ch. Russery, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to his process for manufacturing cranked axles of locomotives."—Dated 20th November, 1858.—(Original Patent, 6th November, 1856.)

89. Prince S. Dolgorouki, represented by H. Biebuyck, of Brussels, for "A cylinder press for extracting juice from pulps."— Dated 20th November, 1858.

90. A. E. Servier, represented by A. Godtschalck-Duval, of Brussels, for an imported invention of "An electro-magnetic indicator of pressure or level."—Dated 23rd November, 1858.— (French Patent, 10th November, 1858.)

91. A. Galy-Cazalet, represented by E. Dansaert, of Brussels, for an imported invention of "Improvements in the manufacture of cast and wrought iron and steel."—Dated 23rd November, 1858.—(French Patent, 15th July, 1858.)

92. J. Barbe, represented by D. Jassin, of Liége, for "Applying telescopes to fire-arms."—Dated 23rd November, 1858.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1858.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

4870. Charles Armand Morin, of Glomel, département de la Côte d'Or, for "Saline manure."—Dated 30th October, 1858.

4871. Sylvain Peyrot, of 70, Grand Chemin d'Aix, Marseille, département des Bouches du Rhône, for "An apparatus for carrying up rubbish and lifting and lowering materials in building houses."—Dated 2nd November, 1858.

4872. François Casult, of 1, Montie des Accoules, Marseille, département des Bouches du Rhône, for "A machine for impregnating timber and marble."—Dated 2nd November, 1858.

4873. Mathurin Gaturel. of Agen, département de Lot et Garonne, for "An improved photographic frame."—Dated 2nd November, 1858.

4874. Etienne Lantillon, of 5, Montin de la Bouche, Lyon, département du Rhône, for "A composition for preventing incrustations of steam-boilers."—Dated 3rd November, 1858.

4875. François Gillet, of Troyes, département de l'Aube, a Certificate of Addition to his Patent of 20th November, 1856, for "A circular loom for weaving ribbed knittings."—Dated 3rd November, 1858.

4876. Stephany Baron, of Brentigny, département des Vosges, for "A machine for thrashing, rasping roots, and cutting chaff."—Dated 3rd November, 1858.

4877. Claude Terrat, of St. Martin-la-Plaine, département de la Loire, for "Construction of a wine press."—Dated 4th November, 1858.

4878. Peltier Brothers, of Rue de la Regratterie, Poitiers, département de la Vienne, for "Manure, called 'improved guano.'"—Dated 4th November, 1858.

4879. Augustin Joseph Cresson, of 12, Rue de Chaulnes, Rennes, département d'Ille et Vilaine, for "A mode of heating apartments."—Dated 4th November, 1858.

4880. Langin and Heimburger, of 1, Rue Militaire de l'Hôpital, Strasbourg, dêpartement du Bas Rhin, for "A safety system applicable to carriages."—Dated 28th October, 1858.

4881. Lucien Migeon, of Larochefoucault, département de la Charente, for "A warp frame and throstle worked by hand."—Dated 28th October, 1858.

4882. Jean Baptiste Hugeux, of 10, Marché au Verjus, Lille, département du Nord, a Certificate of Addition to his Patent of 19th November, 1857, for "An apparatus for thrashing all kinds of grain."—Dated 8th November, 1858.

4883. Million, of 31, Quai de la Charité, Lyon, département du Rhône, for "Improvements in their gas-motive machine as patented 8th June, 1857."—Dated 4th November, 1858.

4884. Jules Auguste Truffault, of Plat d'Etain, commune de Tours, département d'Indre et Loire, for "A machine for making paper."—Dated 4th November, 1858.

4885. Pierre Eugène Beaujouan, of Place Notre Dame, Bourges, département du Cher, for "An apparatus for making collections."—Dated 4th November, 1858.

* For the French Patent Law see No. 228 of this Journal.

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Notices to Proceed.

NOTICE is hereby given that

2071. WILLIAM THOMSON, of the city of Manchester, in the county of Lancaster, Commission Agent, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in bleaching yarn warps, or similar materials."

As set forth in his petition, recorded in the said office on the 13th day of September, 1858.

2088. And SELIM ST. CLAIR MASSIA, of Pall Mall, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in stoves or fire places."—A communication from Jules Cesar Thimoteé Mousseron.

As set forth in his petition, recorded in the said office on the 14th day of September, 1858.

2102. And CHARLES HADLEY, of Lower Hurst Street, Birmingham, has given the like notice in respect of the invention of "Improvements in omnibusses, cabs, railway carriages, waggons, and other similar vehicles."

As set forth in his petition, recorded in the said office n the 17th day of September, 1858.

2108. And JOSEPH BLACKWOOD BEASLEY, of Cashel, county Tipperary, of Ireland, has given the like notice in respect of the invention of "Improvements in the construction of sporting and all other guns."

2110. And HENRY WILLIAM GRYLLS, of No. 47, Mark Lane, in the city of London, Licensed Custom House Agent, has given the like notice in respect of the invention of "Improvements in apparatus employed in submerging or laying down electric telegraph cables."

As set forth in their respective petitions, both recorded in the said office on the 18th day of September, 1858.

2113. And HENRY BARROW, of Birmingham, in the county of Warwick, Saddler, has given the like notice in respect of the invention of "An improvement or improvements in cartridge boxes."

2114. And HENRY FIRMIN, of Wapping, in the county of Middlesex, Carman, has given the like notice in respect of the invention of "A machine for cleansing chaff and other food for horses and cattle."

As set forth in their respective petitions, both recorded in the said office on the 20th day of September, 1858.

2119. And LEON DE PARIENTE, of Paris, France, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus to be applied to gas burners, with the object of increasing the lighting power of the gas flame."—A communication.

2120. And JEAN CLEMENT EMILE MALVEZIN, of Paris, France, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of tubes, pipes, or mains, for conducting liquids or gas, or for other similar purposes."

2121. And JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, has given the like notice in respect of the invention of "Improvements in treating pyrites."

2124. And ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road, has given the like notice in respect of the invention of "Improvements in surface condensers."

As set forth in their respective petitions, all recorded in the said office on the 21st day of September, 1858.

2137. And ALFRED FAUVIN JALOUREAU, of Paris, in the French empire, Manufacturer, has given the

like notice in respect of the invention of "Improvements in the manufacture of pipes."

2139. And Thomas Callender Hinde, of Dudley, in the county of Worcester, Iron Merchant, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of iron and steel."

As set forth in their respective petitions, both recorded in the said office on the 23rd day of September, 1858.

2175. And John Morrison, of Birmingham, in the county of Warwick, Machinist, has given the like notice in respect of the invention of "An improvement in or addition to sewing machines."

2181. And Augustin Normand, of Havre, in the empire of France, Shipbuilder, has given the like notice in respect of the invention of "Improvements in constructing ships and vessels propelled by screw or such like propellers."

As set forth in their respective petitions, both recorded in the said office on the 30th day of September, 1858.

2207. And Anthony Bessemer, of Upper Holloway, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of iron and steel, and in apparatuses to be employed therein."

2213. And John Harcourt Brown, of the Abbey Mills, Romsey, in the county of Hants, has given the like notice in respect of an invention of "Improvements in the manufacture of cartridges."

As set forth in their respective petitions, both recorded in the said office on the 5th day of October, 1858.

2217. And Jozé Luis, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, has given the like notice in respect of the invention of "A new method of joining sheet iron, cast iron, gutta percha, and other tubes, by means of muffles."—A communication.

As set forth in his petition, recorded in the said office on the 6th day of October, 1858.

2239. And Richard Searle, of Woodford Wells, in the county of Essex, Gentleman, has given the like notice in respect of the invention of "Improvements in insulating and preserving and laying submarine and other telegraphic wires or cables."

As set forth in his petition, recorded in the said office on the 8th day of October, 1858.

2445. And Andrew Barclay, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Certain improvements in electric and magnetic or electro magnetic telegraphs, applicable to submarine and land communication."

As set forth in his petition, recorded in the said office on the 2nd day of November, 1858.

2456. And Peter Alfred Mawdsley, of Seacombe, in the county of Chester, Smalt Manufacturer, has given the like notice in respect of the invention of "Improved machinery or apparatus for drying yarns after being sized or stiffened, and the use or application of a certain substance or substances in the sizing, stiffening, or otherwise preparing yarns and woven fabrics, or either of them."

2457. And Peter Alfred Mawdsley, of Seacombe, in the county of Chester, Smalt Manufacturer, has given the like notice in respect of the invention of "The use or application of a certain substance or substances in the manufacture, stiffening, or sizing of paper."

As set forth in his respective petitions, both recorded in the said office on the 3rd day of November, 1858.

2573. And James Samuel, of Great George Street in the city of Westminster, Civil Engineer, has given the like notice in respect of the invention of "Improvements in sleepers or bearers for rails."

As set forth in his petition, recorded in the said office on the 16th day of November, 1858.

2804. And John Vickers Scarborough, of Belfast, in the county of Antrim, Ireland, Gutta Percha Boot Manufacturer, has given the like notice in respect of the invention of "Improvements in apparatus for the manufacture of boots and shoes."

As set forth in his petition, recorded in the said office on the 7th day of December, 1858.

2829. And Henry Wilson, of Norton, in the county of Durham, Brass Finisher, has given the like notice in respect of the invention of "Improvements in the construction of pumps."

As set forth in his petition, recorded in the said office on the 9th day of December, 1858.

2836. And Andrew Barclay, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in obtaining motive power by means of electricity, magnetism, and electro-magnetism."

As set forth in his petition, recorded in the said office, on the 10th day of December, 1858.

2878. And Thomas Moss, of Gainsforth Street, Islington, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in printing bank notes, bills of exchange, and other documents requiring like security against being copied."

As set forth in his petition, recorded in the said office on the 15th day of December, 1858.

2900. And James MacKenzie, Manager to William Strode, of St. Martin's-le-Grand, in the city of London, Gas Engineer, has given the like notice in respect of the invention of "Improvements in those gas burners known as ventilating sun burners."

As set forth in his petition, recorded in the said office on the 18th day of December, 1858.

2937. And Andrew Barclay, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in obtaining and distributing or applying electricity and magnetism, and in obtaining motive power therefrom."

As set forth in his petition, recorded in the said office on the 23rd day of December, 1858.

2958. And William Armand Gilbee, of No. 4, South Street, Finsbury, London, Patent Agent, has given the like notice in respect of the invention of "Improvements in treating fatty bodies, and in the apparatus employed therein."—A communication.

As set forth in his petition, recorded in the said office on the 27th day of December, 1858.

2984. And Hippolyte Charles Vion, of Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "A new mode of obtaining atmospheric electricity, and its industrial applications, and in apparatus for the same."

2996. And John Knowelden, of Southwark, in the county of Surrey, Engineer, and Richard Downes Edwards, of Upper Belgrave Place, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in hydraulic engines, and in apparatus connected therewith."

As set forth in their respective petitions, both recorded in the said office on the 30th day of December, 1858.

9. And James Garforth, of Dukinfield, in the county of Chester, Engineer, has given the like notice in respect of the invention of "Certain improvements in steam engines."

13. And William Eccles, of 34, Surrey Street, Strand, Westminster, in the county of Middlesex, and of the University of Cambridge, Master of Arts, has given the like notice in respect of the invention of "Improving the machinery or apparatus for regulating the tension of the twist threads or warp whilst it is weaving in power looms into cloth."

21. And George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in machinery for forming dough into cakes or bread crackers."—A communication.

As set forth in their respective petitions, all recorded in the said office on the 1st day of January, 1859.

25. And Robert Tempest and James Tomlinson, both of the Roach Iron Works, Rochdale, in the county of Lancaster, Machine Makers, have given the like notice in respect of the invention of "Improvements in certain machines for preparing cotton and other fibrous materials."

As set forth in their petition, recorded in the said office on the 3rd day of January, 1859.

50. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman has given the like notice in respect of the invention of "Improvements in machinery or apparatus for boring or piercing rocks, applicable also to the dressing or working of stone, and as a power hammer generally."—A communication from Monsieur Germain Sommeiller, residing at Turin, in the kingdom of Sardinia, Engineer.

As set forth in his petition, recorded in the said office on the 6th day of January, 1859.

75. And Ferdinand Lehr, of Hoboken, in the state of New Jersey, United States of America, has given the like notice in respect of the invention of "Improvements in machinery for manufacturing metallic ribs for umbrellas, parasols, and other articles."

As set forth in his petition, recorded in the said office on the 10th day of January, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

25th January, 1859.

1676. Alphonse Sax, of Paris, France, Musical Instrument Maker, for an invention of "Improvements in wind musical instruments."—Dated 26th July, 1858.

1678. John Hardie, of the town and county of Stirling, North Britain, Plumber, for an invention of "Improvements in apparatus for regulating the flow or passage of fluids."—Dated 26th July, 1858.

1683. Edward Jones, Gentleman, of Olive House, 20, Camden Cottages, Camden Town, in the parish of St. Pancras, and county of Middlesex, for an invention of "Effecting a better system of drainage, and the machinery and apparatus necessary for the same, whereby the sewage manure is collected and conveniently exported for use, and the noxious effluvia prevented from contaminating the air of populous cities and towns, and whereby the drains may be more strongly and securely built by the manufacture of a more suitable and better material."—Dated 26th July, 1858.

1684. Henry Jackson, of 130, Powis Street, Woolwich, in the county of Kent, for an invention of "Improvements in preparing lubricating matters."—Dated 26th July, 1858.

1687. Peter Augustin Godefroy, of 3, King's Mead Cottages, New North Road, Islington, in the county of Middlesex, Operative Chemist, for an invention of "Improvements in the cleansing of gutta percha, and in the more perfect insulation of electric telegraph wire."—Dated 26th July, 1858.

1688. Henry Glover, of New York, United States of America, Mathematical instrument Maker, for an invention of "Improvements in instruments for measuring angles and taking altitudes."—Dated 26th July, 1858.

1691. John Emes, of 110, Great Russell Street, Bloomsbury, and 123, New Bond Street, Oxford Street, London, both in the county of Middlesex, for an invention of "A portable folding bedstead." Dated 27th July, 1858.

1693. Alexander Taylor, of No. 1, Wellington Cottages, De Beauvoir Town, Kingsland, for an invention of "Improvements in pianofortes."—Dated 27th July, 1858.

1694. Constantine Nicolaus Kottula, of Liverpool, in the county of Lancaster, Soap Manufacturer, for an invention of "Improvements in the manufacture of soap."—Dated 27th July, 1858.

1696. George Hurn, of Norwich, in the county of Norfolk, for an invention of "Improving the manufacture of certain articles made from fibrous materials."—Dated 28th July, 1858.

1705. Henry Harden, of Dundalk, in the county of Louth, Ireland, Locomotive Superintendent to the Dublin and Belfast Junction Railway Company, for an invention of "Improvements in the construction of tubular steam boilers."—Dated 28th July, 1858.

1711. James Musgrave, of Belfast, Ireland, for an invention of "Improvements in stalls and enclosures for horses, cows, and pigs."—Dated 29th July, 1858.

1713. George Seaborn Parkinson, of No. 10, Lambton Terrace, Kensington, Middlesex, Gentleman, for an invention of "An improved connecting apparatus for working railway breaks and effecting a communication between railway guards and drivers."—Dated 29th July, 1858.

1715. Joseph Lester Hinks, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in machines for cleaning knives, forks, spoons, and such other articles as are or may be cleaned by polishing, also in machines for sharpening knives."—Dated 29th July, 1858.

1740. Charles de Bergue, of No. 9, Dowgate Hill, in the city of London, Engineer, for an invention of "Improvements in submarine telegraphic cables, and in machinery for paying out or laying down the same."—Dated 31st July, 1858.

1749. William Beauchamp Bagnal Harvey, of Bagnal Villa, Gresham Road, Brixton, in the county of Surrey, for an invention of "Improvements in fly or screw presses."—Dated 2nd August, 1858.

1774. James Bray Pascoe and John Roberts Thomas, of Chacewater, in the county of Cornwall, Engineers, for an invention of "An improved method of and apparatus for feeding boilers of all steam engines with liquid without the aid of the force pump heretofore used."—Dated 4th August, 1858.

1783. Donald McCrummen, of Gourock, in the county of Renfrew, North Britain, Gentleman, for an invention of "Improvements in the manufacture or production of paper, which improvements are also applicable in the production of alkaline and other salts."—Dated 5th August, 1858.

1784. Colin Mather, of Salford Iron Works, in the parish of Manchester, county of Lancaster, for an invention of "Improvements in shearing machines."—Dated 5th August, 1858.

1799. John Smith the younger, of Coven, near Wolverhampton, in the county of Stafford, Engineer, for an invention of "Improvements in agricultural steam engines, and locomotive steam engines to be used on common roads."—Dated 7th August, 1858.

1802. John Imray, of 65, Bridge Road, Lambeth, in the county of Surrey, Engineer, for an invention of "Improvements in apparatus used in printing."—Dated 7th August, 1858.

1803. John Taylor, of Roupell Park, Streatham Hill, in the county of Surry, for an invention of "Improvements in the manufacture of blocks for the construction of sewers and drains."—Dated 7th August, 1858.

1843. Henry Smith and Thomas Woodhouse Ashby, of Stamford, in the county of Lincoln, Agricultural Implement Makers, for an invention of "Improvements applicable to haymaking machines, whereby such machines are rendered useful for other agricultural purposes."—Dated 12th August, 1858.

1849. Thomas Rickett, of the Castle Foundry, Buckingham, for an invention of "Improvements in locomotive engines and other carriages to facilitate their transit."—Dated 13th August, 1858.

1945. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for sorting silk or other thread according to its size or thickness."—Dated 27th August, 1858.

1967. Leopold Wiart, of Cambrai, in the empire of France, Civil Engineer, for an invention of "An improved mode of generating steam or heating water or liquids."—Dated 30th August, 1858.

2186. James Thomas Peter Newbon and Thomas Smith, both of 63, Fenchurch Street, in the city of London, Naval Architects, and James Brown, of No. 37, Tollet Street, Mile End, in the county of Middlesex, Engineer, for an invention of "An improved method of lifting and lowering ships' anchors."—Dated 1st October, 1858.

2450. Smith Bottomley, of Bradford, in the county of York, Warehouseman to Messrs. Churton, Bankart, and Hirst, of Bradford, in the said county, Stuff Merchants, for an invention of "Improvements in the manufacture of moreens and other fabrics of a similar character."—Dated 3rd November, 1858.

2609. Benjamin Rider, of 61, Red Cross Street, Boro', in the county of Surrey, Leather Dresser and Hat Leather Manufacturer, for an invention of "Improvements in ventilating hats and caps and in the preparation or manufacture of the material of which those articles are made."—Dated 18th November, 1858.

2643. John Young, of Wolverhampton, in the county of Stafford, Manufacturer, for an invention of "Improvements in fastenings for window sashes and casements, and in chain used for suspending window sashes."—Dated 20th November, 1858.

2661. William Warne, James Archibald Jaques, and John Americus Fanshawe, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for an invention of "An improved fabric applicable for covering floors and walls and for other analogous purposes."—Dated 23rd November, 1858.

2681. Colin Mather, of Salford, in the county of Lancaster, Machinist, for an invention of "An improved steam trap or apparatus for allowing the escape of water and air from pipes, vessels, or chambers heated by steam."—Dated 25th November, 1858.

2753. Edmund Leopold Benzon, of Sheffield, in the county of York, Steel Manufacturer, for an invention of "The manufacture of useful alloys of aluminium."—Dated 1st December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To January 22, 1859, inclusive.*)

20th January.

160. John Wordsworth Robson, of Grundy Street, Poplar New Town, Middlesex, Engineer, for an invention of "Improvements in machinery appertaining to waterclosets and pumps."—Complete Specification.—Dated 21st January, 1856.

21st January.

162. Pierre Lewis Tieffé-Lacroix, of Metz, in the empire of France, Mechanician, Watchmaker, for an invention of "Improvements in machinery for cutting files."—Dated 22nd January, 1856.

218. William Beasley, of Smethwick, in the county of Stafford, Manufacturer, for an invention of "Improvements in machinery or apparatus to be employed in rifling the barrels of fire-arms and ordnance."—Dated 26th January, 1856.

22nd January.

193. George Brooks Pettit, and Henry Fly Smith, of Oxford Street, in the county of Middlesex, Gas Engineers, for an invention of "Improvements in gas heating apparatus."—Dated 24th January, 1856.

250. Charles Frederick Claus, of Latchford, in the county of Chester, Chemist, for an invention of "Improvements in the preparation of hides or skins, also applicable to the preparation of the entrails of animals."—Dated 30th January, 1856.

Erratum in Journal of 21st January.

50. For "boring, piercing," read "boring or piercing."

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 16th December, 1858.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 521 of this Journal.)

1. F. E. Gregoir, of Brussels, for "A lamp for burning photogen."—Dated 4th November, 1858.
2. J. T. Mambourg, of Liége, for "A system of economical stoves and kitchen ranges, with a revolving grate."—Dated 26th November, 1858.
3. P. E. Chéron, represented by O. Dardenne, of Liége, for an imported invention of "A forge apparatus, called 'regulating blast-pipe.'"—Dated 23rd November, 1858.—(French Patent, 30th May, 1857.)
4. P. J. Hanrey, of Monceau-sur-Sambre, a Patent of Improvement for "A system of distributing steam."—Dated 26th November, 1858.—(Original Patent, 18th September, 1858.)
5. Ed. Oosterlinck, represented by A. Hennelle, of Brussels, for an imported invention of "Manufacture of galvanic nettings, hair pins, and garters."—Dated 25th November, 1858.—(French Patent, 7th September, 1858.)
6. B. S. Piatoff, represented by H. Biebuyck, of Brussels, for an imported invention of "A process for welding iron."—Dated 25th November, 1858.—(French Patent, 13th November, 1858.)
7. L. Sneguireff and B. S. Piatoff, represented by H. Biebuyck, of Brussels, for an imported invention of "A process for coppering, silvering, and gilding cast and wrought iron and steel."—Dated 25th November, 1858.—(French Patent, 13th November, 1858.)
8. H. Wilde represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in lightning-rods,"—Dated 25th November, 1858.—(French Patent, 10th November, 1858.)
9. J. J. E. Lenoir and R. Boudon, represented by H. Biebuyck, of Brussels, for an imported invention of "An electro-magnetic machine."—Dated 25th November, 1858.—(French Patent, 26th August, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

10 F. Preston and W. MacGregor, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in file-cutting machines."—Dated 25th Novembor, 1858.—(English Patent, 15th August, 1858.)

11. W. Sellers, represented by A. Anoul, of Ixelles, for an imported invention of "A machine for turning metal bars and shafts, cylindrical rings, and for screw-cutting."—Dated 25th November, 1858.—(American Patent, 1st June, 1858.)

12. Cordier Brothers, represented by X. Raclot, of Brussels, for an imported invention of "Manufacture of tissues without wrong sides for the manufacture of foot coverings." — Dated 26th November, 1858.—(French Patent, 3rd November, 1858.)

13. P. Brunon, represented by X. Raclot, of Brussels, for an imported invention of "A system of taps."—Dated 26th November, 1858.—(French Patent, 21st October, 1858.)

14. J. B. Borde, represented by H. Biebuyck, of Brussels, for "A process for bleaching textile substances to be used in the manufacture of paper pulp."—Dated 26th November, 1858.

15. L. G. Scriba, represented by H. Biebuyck, of Brussels, for an imported invention of "A combined porte-monnaie purse."—Dated 26th November, 1858.—(French Patent, 5th March, 1858.)

16. L. G. Scriba, represented by H. Biebuyck, of Brussels, for an imported invention of "A cigar-case."—Dated 26th November, 1858.—(French Patent, 21st November, 1858.)

17. J. Firnstahl, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine with a double eccentric for printing square shawls of all lengths."—Dated 26th November, 1858.—(Austrian Patent, 18th September, 1856.)

18. R. J. Clifton, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of castors for furniture." — Dated 26th November, 1858.—(French Patent, 25th November, 1858.)

19. J. M. Cosnard, represented by H. Puech, of Brussels, for an imported invention of "A system of split gas-burners called 'dividing and spreading burner.'"—Dated 26th November, 1858.—(French Patent, 23rd July, 1857.)

20. Ed. d'Heurle, represented by O. Dardenne, of Liége, for "A handle for holding legs of mutton, with moveable and jointed catches."—Dated 26th November, 1858.

21. Ed. d'Heurle, represented by O. Dardenne, of Liége, for an imported invention of "An apparatus called 'philaromatic measure and case.'"—Dated 26th November, 1858. — (French Patent, 2nd March, 1858.)

22. P. A. Cap, represented by L. C. Duru, of Brussels, a Patent of Improvement for "Construction of billiard-tables for drawing-rooms" — Dated 27th November, 1858.—(Original Patent, 15th March, 1858.)

23. V. F. Van Aughem, of Brussels, a Patent of Improvement for "A system of rollers for sinking stamps and seals."—Dated 29th November, 1858. —(Original Patent, 7th July, 1858.)

24. Charles Bertrand, represented by A. Matton, of Brussels, for an imported invention of "Improvements in mould stands of sugar works."—Dated 29th November, 1858.—(American Patent, 30th March, 1858.)

25. N. F. Boreiko de Chodzko, represented by A. Matton, of Brussels, for an imported invention of "A smoke-consuming apparatus."—Dated 29th November, 1858. — (French Patent, 20th July, 1858.)

26. W. Palmer, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in revolving fire-arms."—Dated 29th November, 1858.—(American Patent, 28th September, 1858.)

27. F. Cobbaert, of Grammont, for "A system of putting matches into frames."—Dated 27th November, 1858.

28. L. Cheneux, of Ougrée, for "An apparatus for introducing coal into coke-kilns, and for simultaneously removing coke therefrom." — Dated 29th November, 1858.

29. J. Desmet Séant, of Mons, for "An apparatus with a continuous rotation applicable to gas-lighting."—Dated 29th November, 1858.

30. J. Félix, represented by A. Allard, of Brussels, a Patent of Improvement for "Additions to his system of castors for furniture."—Dated 30th November, 1858. — (Original Patent, 11th July, 1856.)

31. D. J. Hainaut, of Watermael Boitsfort, a Patent of Improvement for "Modifications in his economical heating and condensing apparatus."—Dated 30th November, 1858.—(Original Patent, 17th May, 1858.)

32. J. de Mannstein, represented by H. Biebuyck, of Brussels, for an imported invention of "Construction of furniture which may be taken to pieces and easily conveyed." — Dated 30th November, 1858.—(Austrian Patent, 20th May, 1857.)

33. H. Comblain, of Saive, a Patent of Improvement for "Modifications in his system of fire-arms."—Dated 29th November, 1858.—(Original Patent, 31st March, 1854.)

34. P. Olivier, of Herstal, for "Improvements in Lefaucheux's guns."—Dated 29th November, 1858.

35. G. Uhlorn, represented by R. Centner, of Verviers, for an imported invention of "A machine for bevelling the teeth of fillet-cards."—Dated 1st December, 1858.—(Prussian Patent, 25th August, 1858.)

36. J. A. C. N. Delpech, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to his force and lift pump."—Dated 1st December, 1858. — (Original Patent, 28th June, 1854.)

37. J. Courage and F. Bennett, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in furnaces for smelting, reducing and calcining ores, dross, scoria, and residues."—Dated 1st December, 1858.—(English Patent, 24th November, 1858.)

38. A. S. Béliard, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for pumicing felt hats."—Dated 1st December, 1858.—(French Patent, 12th August, 1858.)

39. C. Tillière, of Brussels, for 'A motive-wheel with moveable wings or ladles, applicable to all currents of water."—Dated 1st December, 1858.

40. F. S. Perrave-Michal, represented by A. Picard, of Brussels, for an imported invention of "A bridle without bit and curb-chain."—Dated 20th December, 1858.—(French Patent, 11th July, 1856.)

41. Tremouroux Brothers, and Burlet, of Saint Gilles-lez-Bruxelles, for "A cylinder of rolling-mills for the manufacture of spoons and forks of wrought iron."—Dated 2nd December, 1858.

42. E. C. Martin, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in preparing natural phosphate of lime."—Dated 2nd December, 1858.—(French Patent, 8th September, 1858.)

43. A. Richard, represented by D. de Vos-Verraert, of Brussels, for "A bath that may be folded up."—Dated 2nd December, 1858.

44. F. Lombaer, of Molenbeek-St.-Jean, for "A system of moveable book-binding."—Dated 2nd December, 1858.

45. J. Descamps, of Quaregnon, for "A spring cage for extracting coal from pits."—Dated 27th November, 1858.

46. Th. Greenwood and J. Batley, represented by R. Busk, of Ghent, for an imported invention of "Improvements in machines for combing and heckling flax and other similar products."—Dated 1st December, 1858.—(English Patent, 8th January, 1858.)

47. Th. Greenwood, J. Batley, and J. Dockray, represented by R. Busk, of Ghent, for an imported invention of "Improvements in carding, cleaning, and cylindering cotton, wool, waste of silk, and other products."—Dated 1st December, 1858.—(English Patent, 8th October, 1858.)

48. C. Fleury, of Brouck-lez-Liége, a Patent of Improvement for "Modifications in his beverage called 'fair fleurine and white fleurine.'"—Dated 3rd December, 1858.—(Original Patent, 18th August, 1857.)

49. A. H. Blochouse, of Huy, for "An apparatus for lubricating axles of carts with grease in a solid state."—Dated 6th December, 1858.

50. J. C. F. Simiam, represented by A. Hennelle, of Brussels, for "A composition for preventing incrustations of steam boilers."—Dated 3rd December, 1858.

51. J. C. F. Simian, represented by A. Hennelle, of Brussels, for "An apparatus for introducing disincrustating substances into steam boilers."—Dated 3rd December, 1858.

52. L. F. H. Droinet and E. Maldant, represented by M. A. Mennons, of Brussels, a Patent of Improvement for "A system of metal packings of pistons of steam engines."—Dated 3rd December, 1858.—(Original Patent, 28th July, 1858.

53. J. A. Gautier, represented by A. Picard, of Brussels, for an imported invention of "Improvements in the manufacture of manure."—Dated 4th December, 1858.—(French Patent, 30th October, 1858.)

54. P. Seinsevin, of St. Josse-ten-Noode, for an imported invention of "A liqueur, called 'Tonivicine.'"—Dated 4th December, 1858.—(F. A. Seinsevin's French Patent, 2nd February, 1858.)

55. E. L. Pensuete, represented by J. Piddington, of Brussels, for an imported invention of "A steam engine for ramming and removing piles."—Dated 6th December, 1858.—(French Patent, 8th August, 1857.)]

56. P. B. E. Martin, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "An electro-motive apparatus."—Dated 6th December, 1858.—(Original Patent, 18th June, 1858.)

57. W. Moxon, Y. Clayton, and S. Fearnley, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in looms for weaving carpets and other looped fabrics."—Dated 6th December, 1858.—(French Patent, 2nd December, 1858.)

58. F. Durand and H. A. Pradel, represented by J. Sainthill, of Brussels, for an imported invention of "A self-acting loom for weaving figured stuffs."—Dated 6th December, 1858.—(French Patent, 3rd December, 1858.)

59. S. Lees, represented by J. Sainthill, of Brussels, for an imported invention of "Improvement in the manufacture of mineral oil."—Dated 6th December, 1858.—(English Patent, 5th January, 1858.)

60. C. de Poorter, of Ixelles, for "Processes for the manufacture of certain double strong and elastic tissues, being a substitute for Patent and other leather."—Dated 6th December, 1858.

61. P. J. Lejeune, of Liége, for "A system of breech-loading guns of one piece, being applicable to all fire-arms."—Dated 23rd November, 1858.

62. M. E. Mueseler, of Liége, for "Improvements in breech-loading pistols and their cartridges."—Dated 4th December, 1858.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1858.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

4886. Auguste Malet, of Vienne, département de l'Isère, for "A system of goffering cloth."—Dated 5th November, 1858.

* For the French Patent Law see No. 223 of this Journal.

4887. Armand Henry Marin, of 71, Rue Notre Dame, Troyes, département de l'Aube, a Certificate of Addition to his Patent of 24th September, 1858, for "Manufacture of coffee syrup."—Dated 8th November, 1858.

4888. Jacques Mayaud, of 20, Rue Groult d'Arcy, Vaugirard, département de la Seine, for "Purifying natural phosphate of lime."—Dated 27th October, 1858.

4889. Joseph François Bonnaterre, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A drainage pump."—Dated 27th October, 1858.

4890. Amand Hyacinthe Ferry, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 15th June, 1858, for "Improvements in the construction of brass instruments."—Dated 27th October, 1858.

4891. Thomas Keick, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A supplementary mechanism applicable to all sewing machines."—Dated 28th October, 1858.

4892. Albert Fouquerelle and Co., of 20, Rue Bergère, Paris, for "Combinations of printed tissues."—Dated 28th October, 1858.

4893. Hippolyte Petitjean, represented by Castelbon, of 15, Passage des Petites Ecuries, Paris, a Certificate of Addition to his Patent of 12th May, 1857, for "A kind of Venetian blinds."—Dated 28th October, 1858.

4894. Joseph Mairet, represented by Girard, of 13, Rue Cadet, Paris, for "A machine for cutting continuous paper."—Dated 28th October, 1858.

4895. Pierre Nicolas Victor Jacquemin, domiciled with Vial, of 17, Rue des Juifs, Paris, for "A frame with slides, applicable to chimneys and chimney stoves."—Dated 28th October, 1858.

4896. Nicolas Toussaint, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of steel springs."—Dated 28th October, 1858.

4897. François Xavier Kukla, represented by Brade, of 22, Rue Ste. Anne, Paris, for "A calorifere stove heated by gas."—Dated 28th October, 1858.

4898. Jean Charles Martin, of 103, Quai Valmy, Paris, for "An apparatus for carburetting gas."—Dated 28th October, 1858.

4899. Jean Pierre Aimé Charlet, of 41, Rue Richelieu, Paris, for "A mode of rivetting shanks of buttons."—Dated 29th October, 1858.

4900. Messrs. Kilbourn, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in knitting frames."—Dated 29th October, 1858.—(English Patent, expiring 3rd September, 1872.)

4901. Etienne Vivien, of 13, Rue de Strasbourg, Chapelle St. Denis, for "Smoke-consuming chimneys with a direct current of air."—Dated 29th October, 1858.

4902. Sérphin Brothers, of 172, Faubourg St. Martin, Paris, for "An apparatus for mixing sugar."—Dated 29th October, 1858.

4903. Christian Auguste Jacob Behne, of 6, Rue Dubois, Champerret de Neuilly, for "A system of rescuing vessels."—Dated 29th October, 1858.

4904. Jean Adam Machenaud de Laterriere, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A machine for working timber."—Dated 29th October, 1858.

4905. Jean Louis Marie, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 22nd April, 1858, for "A system of pump for compressing air or gas and fluids, &c."—Dated 29th October, 1858.

4906. Charles Sanglier, of 55, Rue de Lourcine, Paris, a Certificate of Addition to his Patent of 2nd November, 1857, for "Applying copper to basket work."—Dated 29th October, 1858.

4907. Augustin Marie Herland, of 138, Rue de Ménilmontant, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "A system of mounting straps on drums and pulleys."—Dated 30th October, 1858.

4908. Jacques Etienne Daud, of 62, Rue Ménilmontant, Paris, a Certificate of Addition to his Patent of 24th September, 1858, for "Shoes and boots, &c."—Dated 30th October, 1858.

4909. Sénéchal and Bridlay, the former of Belleville, the latter of 19, Rue Rambuteau, Paris, a Certificate of Addition to their Patent of 16th February, 1858, for "A break for carriages."—Dated 30th October, 1858.

4910. Jean Marie Deyey, of 110, Faubourg St. Honoré, Paris, a Certificate of Addition to his Patent of 1st September, 1858, for "Counters (for games)."—Dated 30th October, 1858.

4911. Edouard Massey, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Kind of seal for wet stamps."—Dated 30th October, 1858.

4912. Armand Charles Messager, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A mechanical process for preparing vegetable hair."—Dated 30th October, 1858.

4913. Henry François Cohade, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A peculiar kind of figured thread."— Dated 30th October, 1858.

4914. William Warne, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the construction of elastic roads and linings of walls, and in the manufacture of elastic mats, brushes, and pads for packing."—Dated 30th October, 1858. — (English Patent, expiring 1st September, 1872.)

4915. Jacques Denis Montéage, of 144, Rue de la Villette, Belleville, for "Materials for hydraulic brickwork."—Dated 30th October, 1858.

4916. André Jacques Amand Gauthier, represented by Brade, of 22, Rue Ste. Anne, Paris, for "Improvements in the manufacture of manure."—Dated 30th October, 1858.

4917. Jean Backhausen, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of fabrics with velvet and chenille designs, of all colours, and without wrong sides."—Dated 30th October, 1858.—(Austrian Patent, expiring 15th March, 1872.)

4918. Hendrickx Brothers, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "An apparatus for obtaining gas for domestic purposes.' —Dated 30th October, 1858.—(American Patent expiring 27th January, 1872.)

4919. Louis Fleurus Gustave Petitpierre-Pellion, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in centrifugal hydro-extractors, for finishing and drying tissues, filamentous and pulverulent substances, and for treating sugar."—Dated 30th October, 1855.

4920. Rigolet and Co., represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to their Patent of 16th June, 1857, for "A continuous filter worked by pressure."—Dated 30th October, 1858.

4921. Lenordez, Paulet, and Vasner, the former of Neuilly, the second of Thernes, and the latter of Clichy la Garenne, for "A thrashing machine."—Dated 2nd November, 1858.

4922. Antoine Fidèle Amand Bout, domiciled with Toutain, of 19, Rue Molière, Auteuil, for "A swimming and life apparatus, called 'sandals of Neptune.'"—Dated 2nd November, 1858.

4923. Prosper Sauvage, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "A voltaic element for graduating the current."—Dated 2nd November, 1858.

4924. Charles Louis Barrois, of 18, Rue de Jouy, Paris, for "A regulating perigraphic or periendographic slide."—Dated 2nd November, 1858.

4925. Jean Joseph Etienne Lenoir, of 6, Rue des Filles du Calvaire, Paris, a Certificate of Addition to his Patent of 26th August, 1858, for "An electric motor"—Dated 2nd November, 1858.

4926. Charles Joseph Mettais, of 8, Rue des Jeuneurs, Paris, for "A goffering and quilling machine."—Dated 2nd November, 1858.

4927. Auguste Michel Anisit Pravet, of Caserne de Tournon, Paris, for "A system of stops by means of which fiery horses are paralyzed without fail."—Dated 2nd November, 1858.

4928. Messrs. Hublier, of 18, Rue Castex, Paris, a Certificate of Addition to their Patent of 11th December, 1858, for "A registering apparatus for carriages."—Dated 2nd November, 1858.

4929. Joseph Vallod, of 26, Rue d'Angoulême du Temple, Paris, a Certificate of Addition to his Patent of 2nd October, 1852, for "An apparatus for lubricating shafts, axles, and pivots, &c."—Dated 2nd November, 1858.

4930. Aléxandre Nicolas Theroude, of 5, Rue de Montmorency, Paris, for "A mechanical apparatus for entertainments at evening parties."—Dated 2nd November, 1858.

4931. Louis Sautter and Co., represented by Maurice Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of reflectors of foliated glass."—Dated 2nd November, 1858.

4932. James Stuart, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in distilling asphalt, pitch, tar, and other bituminous substances."—Dated 2nd November, 1858.—(English Patent, expiring 26th May, 1872.)

4933. Frederick William Mowbray and James Brodley, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in means or apparatus employed in weaving."—Dated 2nd November, 1858.—(English Patent, expiring 8th April, 1872.)

4934. Louis Victor Lemaignen, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An economical process for the manufacture of cloth, Lisieux stuffs, and beaver for foot-coverings."—Dated 2nd November, 1858.

4935. Abel Joseph Antoine Allié, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Instruments for measuring the dimension of the head for hats."—Dated 2nd November, 1858.

4936. Charles Pierre Pauthier, of 261, Rue St. Denis, Paris, for "Manufacture of gimp lace-work on small looms."—Dated 2nd November, 1858.

4937. Antoine Mattei, of 3, Place Sorbonne, Paris, for "An instrument called 'forcipine (forceps.)'"—Dated 3rd November, 1858.

4938. Pierre Louis Rossignol, of Rue du Bail, Fécamp, département de la Seine Inférieure, for "A kind of axles."—Dated 4th November, 1858.

4939. Eugène Lacroix, of 23, Boulevart St. Hilaire, Rouen, département de la Seine Inférieure, for "A mechanism for rendering propellers variable."—Dated 6th November, 1858.

4940. Charles Félix Sebille, of 4, Rue Dudruzène, Nantes, département de la Loire Inférieure, a Certificate of Addition to his Patent of 28th November, 1857, for "Manufacture of leaden pipes that are tinned inside."—Dated 8th November, 1858.

4941. Julien Aléxandre Nicolleau, of 3, Rue du Chapeau Rouge, Nantes, département de la Loire Inférieure, for "A rolling-mill for dressing and bending metallic flat bands."—Dated 8th November, 1858.

4942. François Rochet, of St. Just la Pendice, département de la Loire, for "Dressing yarns of thread, cotton, wool, hair, horse-hair, for being woven and twisted in a dry state."—Dated 8th November, 1858.

4943. Pierre Rigola, of 8, Rue Boileau, Nantes, département de la Loire Inférieure, for "A mode of drying, sorting, and pressing matches."—Dated 8th November, 1858.

4944. Emile Cuvelier, of Anzin, département du Nord, for "Miners' lamps."—Dated 8th November, 1858.

4945. Millot Brulé, of Sault-des-Rethel, département des Ardennes, for "An agglutinant and retractible truss."—Dated 10th November, 1858.

4946. Jean Kissel, of 14, Rue Bonafous, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 12th July, 1854, for "A spring mattress."—Dated 10th November, 1858.

4947. Fulgence Jean Baptiste Galois, of 16, Rue Napoléon, Amboise, département d'Indre et Loire, a Certificate of Addition to his Patent of 8th December, 1857, for "A moveable and inexplosive coffee-pot."—Dated 6th November, 1858.

4948. Etienne François Rey-Guilliard, of 13, Boulevart St. Guillaume, Montpellier, département de l'Hérault, for "Cigaret paper that cannot be unrolled." — Dated 8th November, 1858.

4949. Anne Jean Baptiste Jobard Eugène du Mesnil, of Brazey-en-Plaine, département de la Côte d'Or, for "A windmill applicable to agricultural and industrial purposes."—Dated 8th November, 1858.

4950. Edouard Corne, of Libon, commune de Monsempron, département de Lot et Garonne, for "Inodorous fecal manure."—Dated 9th November, 1858.

4951. Pasturel and Gentets, of 25, Rue de Chartres, Lyon, département du Rhône, a Certificate of Addition to their Patent of 19th November, 1857, for "A spinning machine."—Dated 9th November, 1858.

4952. Auguste Verdier, of Montauban, département de Tarn et Garonne, for "A system of pumps."—Dated 9th November, 1858.

4953. Aléxandre Royaux, of Leforest, département du Pas de Calais, a Certificate of Addition to his Patent of 30th April, 1856, for "Improvements in the manufacture of yellow tiles."—Dated 10th November, 1858.

4954. Messrs. Heau, of 28, Rue de l'Empereur, Orléans, département du Loiret, for "A machine for dressing iron." — Dated 10th November, 1858.

4955. Auguste Guermonprez, of Rue d'Arras, Lille, département du Nord, for "Purified fat, oils, oleine of horses, oleine of tallow, being a substitute for olive oil."—Dated 11th November, 1858.

4956. Pierre François Guillot, of 29, Route de Choisy, near la Barrière de Fontainebleau, for "A process for controlling telegraphic messages by means of the printing manipulator."—Dated 3rd November, 1858.

4957. Dissard and Fermery, the former of 30, Rue d'Assas, Paris, the latter of Belleville, for "Applying a kind of ribbon to metrical measures." —Dated 3rd November, 1858.

4958. George Pigott, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in Jacquart machines used in the manufacture of net, lace, and other tissues." — Dated 3rd November, 1858.

4959. Aléxis François Marie Picard, of 4, Rue Beauregard, Paris, for "A system of controlling railway tickets."—Dated 3rd November, 1858.

4960. Rudolphe Bodner, represented by Richard Lloyd, of 2, Rue de Paradis Poissonnière, Paris, for "An apparatus for removing sands, mud, and other similar substances from docks, canals, harbours, rivers, &c."—Dated 3rd November, 1858.—(English Patent, expiring 24th April, 1872.)

4961. Nathaniel Shattswell Dodge, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the treatment of the waste of vulcanized india rubber."—Dated 3rd November, 1858.

4962. Pierre Joseph Pouplin, of 87, Rue Ménilmontant, Paris, for "A drawing-room pistol."— —Dated 3rd November, 1858.

4963. Newmann Rodier, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in apparatus for regulating the flow of gas." —Dated 3rd November, 1858.—(English Patent, expiring 26th August, 1872.)

4964. Charles François Bailly, of 16, Quai de l'Ecole, Paris, for "Machine for washing and drying linen."—Dated 3rd November, 1858.

4965. Louis Aléxandre Foret, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 6th August, 1858, for "Manufacture of fabrics."—Dated 3rd November, 1858.

4966. Charles Edouard Lecomte, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Cigar-cases, watch-cases, &c."—Dated 3rd November, 1858.

4967. Dominique Aléxis Ernest Renault, o 69, Rue de Vaugirard, Paris, for "A process for casting curved and hollow branches for gas lights." —Dated 3rd November, 1858.

4968. Cordier Brothers, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Preparing flannel tissues for the manufacture of foot coverings thereof."—Dated 4th November, 1858.

4969. Géry François Joseph Griffon, of 15, Quai Bourbon, Paris, for "An instrument for taking out money from cash-boxes."—Dated 4th November, 1858.

4970. Aléxandre Raffin, domiciled with Dugenne, of 81, Rue Rambuteau, Paris, a Certificate of Addition to his Patent of 22nd July, 1858, for "Arrangements in low warp looms."—Dated 4th November, 1858.

4971. Valery Jean Baptiste Platel, of 22, Rue Notre Dame de Nazareth, Paris, a Certificate of Addition to his Patent of 9th July, 1857, for "A system of guns."—Dated 4th November, 1858.

4972. Joseph Alcibiade Paulin Mestadier, of 119, Boulevart Montparnasse, Paris, for "A system of crotchets of several wires."—Dated 4th November, 1858.

4973. Pierre Simon, of 6, Rue d'Orléans à la Vilette, for "A process for drying wood."—Dated 4th November, 1858.

4974. Jacques François Vigny, of 19, Rue du Temple, Paris, for "An apparatus for milling chocolate."—Dated 4th November, 1858.

4975. Victor Ferdinand Jeauneau, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 7th November, 1857, for "A flower chest or box." —Dated 4th November, 1858.

4976. Charles Philippe Hecht, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of smoking-pipes."—Dated 4th November, 1858.

4977. Paul Alexandre Brunet, of 118, Rue de Paris, St. Denis, a Certificate of Addition to his Patent of 21st May, 1858, for "A kind of clogs." —Dated 4th November, 1858.

4978. Camus, Giboire, and Petit, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in railway chairs."—Dated 4th November, 1858.

4979. Reader and Dewicki, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in looms for manufacturing lace, embroidered or bobbin tissues, and other similar canvass."—Dated 4th November, 1858.—(English Patent, expiring 8th February, 1872.)

4980. Jules François Norbert Mathon, domiciled with Coltat, of 110, Rue d'Enfer, Paris, for "A rotary steam engine called 'cyclodynamic engine.'"—Dated 5th November, 1858.

4981. Ciriaco Novi, domiciled with Frecassi, of 1, Rue St. Pierre Montmartre, Paris, for "A kind of masks."—Dated 5th November, 1858.

4982. François Tobie, of 5, Rue Basse du Transit, Vaugirard, a Certificate of Addition to his Patent of 7th July, 1858, for "A warlike machine for the artillery."—Dated 5th November, 1858.

4983. Louis Augustin Gouy, domiciled with Hamot, of Rue Aubry le Boucher, Paris, for "A kind of tricot."—Dated 5th November, 1858.

4984. Guillaume Bac, of 12, Rue Portefoin, Paris, for "A vertical machine for filing metallic eyelets." —Dated 5th November, 1858.

4985. Vincent Victor Falour, represented by Castelbon, of 15, Passage des Petites-Ecuries, Paris, a Certificate of Addition to his Patent of 3rd August, 1858, for "A collar, applicable to all traction horses."—Dated 5th November, 1858.

4986. Jacques Krafft, of 9, Rue de Paradis Poissonnière, Paris, for "Process for making india-rubber billiard cues."—Dated 5th November, 1858

4987. Louis Norbert Gourguechon, of 148, Rue de Rivoli, Paris, for "A system of inlaid floor."— Dated 5th November, 1858.

4988. Joseph Pierre Gillard, represented by Brade, of 22, Rue Ste. Anne, Paris, for "Improvements in apparatus for obtaining hydrogen gas by means of water-steam, and applying the same to lighting and heating." — Dated 5th November 1858.

4989. Whaite and Sener, represented by Gardissal, of 29, Boulevart Montmartre, Paris, for "Improvements in coffee pots."—Dated 5th November, 1858.—(American Patent, expiring 22nd May, 1870.)

4990. Etienne Avoies Fleureau, of 27, Rue Montorgueuil, Paris, for "A sytem of spittoons." —Dated 6th November, 1858.

4991. Adolphe Auguste Goupil, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to his Patent of 11th April, 1857, for "A machine for unheading and gutting sardines." —Dated 6th November, 1858.

4992. Thomas Preston, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of tissues with a cut pile on warp looms."—Dated 6th November, 1858. —(English Patent, expiring 5th May, 1872.)

4993. Jean Auguste Bazet, of 9, Rue Lafayette, Paris, a Certificate of Addition to his Patent of 1st October, 1857, for "A so-called 'neogasogene apparatus for obtaining artificial gaseous beverages.'"—Dated 6th November, 1858.

4994. Louis Auguste Tellier, of 11, Rue Lebouteux, Batignolles, for "Manufacture of flannel combined with insulating substances for soles, plastrons, &c."—Dated 6th November, 1858.

4995. Justus Liebig, represented by Pelouze, of 11, Quai Conti, Paris, a Certificate of Addition to his Patent of 10th April, 1858, for "Process for coating mirrors with copper or gold."—Dated 6th November, 1858.

4996. Jacinto Barrau, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in processes for friezing pile fabrics."— Dated 6th November, 1858.—(Spanish Patent, expiring 28th October, 1872.)

4997. Pierre Bruno Joseph Elie Cabanes, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction and arrangement of corn mills."—Dated 6th November, 1858.

4998. Auguste Prouvost, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 4th April, 1857, for "Arrangements in boilers for generating, superheating, and regenerating steam." — Dated 6th November, 1858.

4999. Auguste Prouvost, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 22nd December, 1856, for "Improvements in the arrangement of steam-boilers."— Dated 6th November, 1858.

5000. Auguste Prouvost, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certifiate of Addition to his Patent of 9th September, 1857, for "A pyromotor, or machine worked by air, gas, steam, &c."—Dated 6th November, 1858.

5001. Jean Baptiste Tarlot, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 14th October, 1858, for "Improvements in thrashing machines." — Dated 6th November, 1858.

5002. Gustave Palmer Harding, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of hats."—Dated 6th November, 1858.

5003. Adéon Férandelle, domiciled Rue St. Honoré, Hôtel du Puy de Dôme, Paris, for "An hydraulic wheel."—Dated 8th November, 1858.

5004. Jean Charles Martin, of 103, Quai Valmy, Paris, a Certificate of Addition to his Patent of 28th October, 1858, for "An apparatus for carburetting gas."—Dated 8th November, 1858.

5005. Mundo, Briollet, Dumontet, and Co., domiciled 11, Rue de Sèvres, Paris, for "A chemical and mechanical process for obtaining heat at a cheap rate."—Dated 8th November, 1858.

5006. Joseph Toussaint Caussemille, of 12, Boulevart de la Gare, Marseille, département de Bouches du Rhône, for "Arrangements in cigarets paper."—Dated 5th November, 1858.

5007. Joseph Toussaint Causemille, of 12, Boulevart de la Gare, Marseille, département des Bouches du Rhône, for "Arrangements in cigaret-paper."—Dated 6th November, 1858.

5008. Saurageot and Greisch, of Montélimar, département de la Drôme, for "A system of levers for switches on railways."—Dated 8th November, 1858.

5009. Rebouillon and Allemand, the former of Compagne Imbert, the latter of 54, Rue Neuve, Marseille, département des Bouches du Rhône, for "Applying the game of trente et un to cross-bow shooting."—Dated 8th November, 1858.

5010. Edmond Demars, of 10, Rue Constantine, Lyon, département du Rhône, for "Compressed beer-yeast exempt from bitterness."—Dated 10th November, 1858.

5011. Louis Matton, of Lozanne, département du Rhône, for "A compound lever for raising water."—Dated 10th November, 1858.

5012. Barthélemy Picard, of Fontenay le Chateau, département des Vosges, a Certificate of Addition to his Patent of 11th June, 1857, for "A new system of grinding-stones."—Dated 12th November, 1858.

5013. Frédéric Etienne Vernet, of Vaison, département de Vaucluse, for "A suction lift and projecting pump with a mixed system and without friction."—Dated 12th November, 1858.

5014. Claude Auguste Vuillermoz, of Nantua, département de l'Ain, for "Cards moved by water."—Dated 12th November, 1858.

5015. Armand Febvre, with Mr. Dessaigne, of 21, Cours Napoléon, Lyon, département du Rhône, a Certificate of Addition to his Patent of 14th November, 1857, for "A methodical apparatus for concentrating sulphuric acid at the highest degree."—Dated 12th November, 1858.

5016. Béchet and Grangier, of Avignon, département de Vaucluse, for "A self-acting chain pump applicable as a motor and water-raising machine."—Dated 13th November, 1858.

5017. Ernest Jadin, of Ste. Suzanne, Ile de la Réunion, for "Improvements in zinc coverings of houses."—Dated 11th November, 1858.

5018. Guérin and Béjot-Gandel, of Verdun-sur-le Doubs, département de Saône et Loire, for "A system of pumps."—Dated 9th November, 1858.

5019. Michaux and Co., represented by Bazin, of Anzin, département du Nord, for "A lubricator for transmission machinery."—Dated 11th November, 1858.

5020. Lacroix, Laroche, and Co., of Larochandy, département de la Charente, for "A process for impregnating paper, during its manufacture, with any liquid in order to render it dioptric, opaque, ribbed, &c."—Dated 11th November, 1858.

5021. Pierre Nicolas Cordebart, of Angoulême, département de la Charente, for "Applying a metallic lattice to the movable part of cast-iron frames of skylights."—Dated 11th November, 1858.

5022. Jules Drounau, of Cognac, for "An iron hoop applicable to casks in general, and which may be lengthened or narrowed by means of rivetted hooks."—Dated 13th November, 1858.

5023. Louis Jacques Château, of Fontaine la Guyon, département d'Eure et Loire, for "An agricultural implement."—Dated 13th November, 1858.

5024. Charles Chrétien, of 50, Rue d'Armentières, Lille, département du Nord, for "An economical washing machine with a reciprocating motion."—Dated 15th November, 1858.

5025. Edouard Augustin Boudier, of 22, Rue Méridienne, Rouen, département de la Seine Inférieure, a Certificate of Addition to his Patent of 8th December, 1857, for "Arrangements in steam engines."—Dated 11th November, 1858.

5026. Edouard Tomlinson, represented by Burel, of 3, Rue d'Harcourt, Rouen, département de la Seine Inférieure, for "Improvements in the manufacture of spinning tubes, and machines and apparatus used therein."—Dated 13th November, 1858.

5027. Mauroux, of Passage, département de Lot et Garonne, a Certificate of Addition to his Patent of 24th May, 1858, for "A mode of heating steam boilers, &c."—Dated 15th November, 1858.

5028. Jean Adolphe Aubert, of 33, Chemin du Coudray, Nantes, département de la Loire Inférieure, a Certificate of Addition to his Patent of 17th August, 1858, for "A harvesting machine."—Dated 15th November, 1858.

5029. Jean Nouet, of 5, Rue Charles au Mans, département de la Sarthe, for "A mechanism for immediately putting off fiery horses from carriages."—Dated 15th November, 1858.

5030. François de Amegaza, of 65, Cours d'Albret, Bordeaux, dèpartement de la Gironde, for "A machine for regenerating power."—Dated 15th Novembvr, 1858.

5031. Pierre Antoine Eugène Regnauld d'Epercy, of 92, Rue Trésorie, Bordeaux, département de la Gironde, for "A constant battery without porous diaphragms."—Dated 15th November, 1858.

5032. Pierre Bardelle, of Metz, déptrtement de la Moselle, a Certificate of Addition to his Patent of 10th October, 1857, for "A system of stopping fiery horses instantaneously."—Dated 15th November, 1858.

5233. Chrisostome Eyraud, of 3, Rue du Vernay, St. Etienae, département de la Loire, for "Revolving guns and pistols with fire-lock and gearing."—Dated 15th November, 1858.

5034. Athanase Girard, of 25, Rue de l'Intendance, Tours, département d'Indre et Loire, for "Railway signal masts."—Dated 10th November, 1858.

5035. Charles Ruffet, of Avenue de Launay, Nantes, département de la Loire Inférieure, a Certificate of Addition to his Patent of 15th January, 1858, for "A safety apparatus for feeding steam boilers."—Dated 16th November, 1858.

5036. Charles Isidore Constant Venant, of 36, Rue de la Poterne, Orléans, département du Loiret, for "A smoke-consuming ventilator."—Dated 15th November, 1858.

5037. Fortunat Finance, of St. Dié, département des Vosges, a Certificate of Addition to his Patent of 20th November, 1856, for "A machine for forging nails."—Dated 15th November, 1858.

5038. Pierre Joseph Glotin, of 12, Rue des Faussets, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 30th July, 1858, for "A propellor of vessels, &c."——Dated 15th November, 1858.

5039. Debas-Talabas, of Castres, département du Tarn, a Certificate of Addition to his Patent of 24th October, 1857, for "Improvements in lithographic presses."—Dated 15th November, 1858.

5040. Joseph Antoine Dalmas, of 44, Rue Haute Rotonde, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 21st April, 1858, for "Inodorous basins of closets."—Dated 16th November, 1858.

5041. Charles Levy, of Bams, département des Vosges, for "A machine for the manufacture of nails."—Dated 16th November, 1858.

5042. Camion Brothers, of Moremon, département des Ardennes, for "A machine for preparing sand for castings, &c."—Dated 16th November, 1858.

5043. Augustin Zeiger, of 42, Place Impériale, Lyon, département du Rhône, for "Substituting metallic blades for chords in pianos."—Dated 17th November, 1858.

5044. Dupalais Beaud and Prévost, of 76, Cours Bourbon, Lyon, département du Rhône, for "Toilet vinegar, called 'anti-nephitic water.'"—Dated 17th November, 1858.

5045. Cabany, of Anzin, département du Nord, for "Double wedges for railways."—Dated 18th November, 1858.

5046. Joseph André Vaillant, of 8, Rue Neuve Jéninci, Alger, for "A truss with a slight and gradual pressure."—Dated 28th October, 1858.

5047. Millon Marchessaux and Ferrand, of Alger, a Certificate of Addition to their Patent of 7th November, 1857, for "A mode of vulcanizing coal."—Dated 4th November, 1858.

5048. Gravier and Laval, of Nîmes, department du Gard, for "Manufacture of a fabric for making plush carpets."—Dated 15th November, 1858.

5049. Joseph Isidore Morel, of Péronne, département de la Somme, for "Fountain pens."—Dated 16th November, 1858.

5050. François Caillier, of 9, Rue de la Fosse, Nantes, département de la Loire Inférieure, for "A machine for cutting gum."—Dated 17th November, 1858.

5051. Emile Babonneau, of Chateaubriand, département de la Loire Inférieure, for "A motor applicable to all machines."—Dated 17th November, 1858.

5052. Benoit Gilbert Dutel, of St. Quentin département de l'Aisne, for "A machine for making festoons which are usually made by hand."—Dated 18th November, 1858.

053. Bickerton and Preston, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A thermo-pneumatic lubricator for lubricating shafts, axles, and other parts of machinery in motion."—Dated 8th November, 1858.—(English Patent, expiring 12th April, 1872.)

5054. Louis Marie Trouble, of 1, Rue du Four St, Honoré, Paris, for "A printing handle applicable to wet stamps."—Dated 8th November, 1858.

5055. Messrs. Leblon-Lefebvre, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A chicory composition called 'gluten.'"—Dated 8th November, 1858.

5056. Grivel and Mouilleron, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of lace, braid, and lace-work, and net tissues in general."—Dated 8th November, 1858.

5057. Jean Baptiste Loiseau, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Trimming ladies' cloaks and other similar dresses."—Dated 8th November, 1858.

5058. Gustave Jean Bourbouze, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A break applicable to all vehicles."—Dated 8th November, 1858.

5059. Rivoire, Devallois, and Delegue, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in metallic springs for petticoats."—Dated 8th November, 1858.

5060. Pierre Carmien, of 24, Rue des Marais, St. Martin, Paris, for "A regulating hour glass of electric clocks."—Dated 9th November, 1858.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 4th January, 1859, and each bearing that date.

No. 22,477. Henry B. Adams, of Brooklyn, N. Y., for an "Improved automatic boiler feeder."

"I am well aware that oscillating chambers have been used for the purpose of gauging or supplying water; therefore, I do not claim broadly the use of oscillating chambers for the purpose of supplying water to a steam boiler; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination, substantially as herein shown and described, of the chambers L, L, shell K, and adjustable weight O, for the purposes set forth. I also claim the combination of the valves P with the chambers L, as and for the purposes herein shown and described."

No. 22,478. Jonathan Ball, of Elmira, N. Y., for an "Improved manufacture of umbrella rings."

"What I claim as my invention, and desire to secure by Letters Patent, as a new article of manufacture, is, an um-

brella ring, having the ends of the ribs or the stretchers and the wire to confine them cast within, as herein set forth."

No. 22,479. Thomas Bennett, of New York, N.Y., for an "Improvement in grinding mills."

"I do not claim broadly a grinding cone H placed within a conical shell D, for this is a well-known grinding device, and is employed in a great variety of mills; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the adjustable conical shell D, in combination with the grinding cone H, placed or secured upon a shaft C having no end play or longitudinal adjusting movement, the parts being arranged substantially as and for the purpose set forth. I further claim, in combination with the adjustable shell D and cone H, the cob-cutting D^1 permanently attached to the shaft C, and having its shell I fitted over the end of shell D, for the purpose set forth."

No. 22,480. Lewis Bishop, of Talladega, Ala., for an "Improvement in elastic saddles."

"I am aware that elastic saddles have been previously constructed, but so far I am aware a vertical play or spring has only been given the seat, no provision being made for a rocking movement. This rocking movement is an essential feature of the invention, it eases to a great extent the sudden jar attending the gait known as a trot, and as the motions of the animal can only be transmitted to the seat though the loops *a* and elastic bars B, B, it will at once be seen that the seat C will neutralize or ease to a very great extent the sudden jars, concussions, &c. attending the movement of the animal. I do not claim broadly the employment or use of a spring or elastic seat attached to a saddle, for such device has been previously used; but so far as I am aware a rocking movement in connection with a vertically vibrating one has not hitherto been given the seat. What I claim, and desire to secure by Letters Patent, as an improved article of manufacture, is, a saddle having a seat C suspended on springs B, by means of loops *a* and eyes *b*, and otherwise made as herein shown and described."

No. 22,481. Micheal Bomberger, of Hummelstown, Pa., for an "Improvement in corn shellers."

"What I claim as my invention, and desire to secure by Letters Patent, is, so arranging the rollers E, E (provided with helical springs, as described), in combination with the loose rings *h*, *h*, as to operate in the manner and for the purposes as set forth. I also claim the employment of the loose bar G, when arranged with rollers E, E, helical springs *f*, adjusting bars D, D, and shelling cylinder B, substantially as and for the purposes described."

No. 22,482. William H. Brown, of Middletown, N. Y., for an "Improvement in horse rakes."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the segment rack *e*, toothed sector and arms *g*, *h*, rod *i*, lever *j*, and frame E, as and for the purpose herein shown and described."

No. 22,483. A. C. Brownlick, of Buffalo, N. Y., for an "Improvement in harvesters."

"Having thus fully described my improvement in harvesters, what I claim, and desire to secure by Letters Patent, is, the axle F, in combination with the pinions *o*, *t*, *v*, D, shaft H, and pillow block N, constructed, arranged, and operating substantially in the manner described for the purpose specified."

No. 22,484. Joel Bryant, of Brooklyn, N.Y., for an "Improvement in seed planters."

"Having now set forth the nature and object of my invention, I hereby disclaim the use of all other cultivating plows and seed-planting apparatus, and desire to secure by Letters Patent, what I hereby claim as my invention, to wit, I claim in connection with the cultivating plow A the seed planting apparatus B, consisting of the drill plow *c*, seed box *d*, seed slide *e*, driving rod *r*, covering wheel *o*, and sod clearer *k*, the same being constructed and operating substantially as herein described, and for the purposes set forth."

No. 22,485. John Burt, of Hartford, Conn., and William W. Willant, of Syracuse, N. Y., for an "Improved construction of spectacles."

"What we claim, therefore, and desire to secure by Letters Patent is, the employment of the link joint A, to the nose piece X, for the purpose as described. The construction and arrangement of the short bows F, springs H, cups E, or pads, substantially in the manner and for the purpose as set forth and described."

No. 22,486. David Buzzell, of Charlestown, Mass., for an "Improved rocking chair."

"I do not claim an extension foot rest, or one so applied to a chair, as to be capable of being moved toward or away from the seat of the chair, and whether such foot rest be sustained by cords or weights or not, as such a foot rest is very old, and has been in use many years; nor do I claim a chair constructed as shown in the United States Patent, No. 19,352, but I claim in combination with the chair stand or frame, the movable leg rest and the sliding foot applied to such leg rest essentially as described, a mechanism by which, when the leg rest is moved or swung upon its fulcra or bearings, the sliding foot rest shall be moved on its supports, either toward or away from the seat, substantially as specified; I also claim the combination of the foot levers and the rockers applied to the chair or seat frame, and so as to operate together substantially as described. I also claim the combination of the toggles, the lifting levers, and their connections with the foot levers and rockers, the same being for the purpose of so operating the said rockers and levers as to cause the chair to be supported on the ground or floor, either by the two rocker or the four foot levers, as set forth. I also claim so combining a foot rest with a movable or turning leg rest, that the former shall be movable relatively to the latter, as specified."

No. 22,487. Calvin Cannaday, of Indianapolis, Ind., for an "Improvement in cotton cultivators."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the two shares or blades E, E^1, when placed obliquely with each other, pivoted to their respective standards *c*, *c*, and adjusted by the rod G, nut *g*, and fork F, substantially as and for the purpose set forth. 2nd, the employment or use of the reciprocating hoe L, attached to the bar K, which is connected with the rod I, the hoe being operated substantially as shown, to wit, through the medium of the cam J, and spring *j*, in connection with the pin *l* and springs *n*, *n*, so that the transverse movement of the hoe relatively with the row of the plants will be obtained, and also a vertical movement to allow the hoe to clear the plants when passing over them previous to each thining out strokes, substantially as shown and described. 3rd, the lever N, when applied to the rod I, and used in connection with the thining hoe L, substantially as and for the purpose set forth."

No. 22,488. Augustus C. Carey, of Lynn., Mass., for an "Improved carpet fan sweeper."

"Thus far I have spoken of my improved fan as particularly applicable to sweeping carpets, but it is evident that it may also be employed upon machines for sweeping walks or even streets, and for gathering leaves from the surface of lawns, I do not, therefore, confine myself to its use simply as a carpet sweeper. Claim.—I do not claim the employment of a fan in a sweeping machine, for the purpose of conveying the dust to the receptacle after it has been swept up by a revolving brush, but what I do claim as my invention, and desire to secure by Letters Patent, as an improvement in sweeping machines, is the use of a fan F, for the purpose of sweeping the carpet or other surface in place of the revolving brush heretofore employed for the purpose."

No. 22,489. Gardner Chilson, of Boston, Mass., for an "Improvement in cooking range."

"I lay no claim to the arrangement of ovens, elevated chamber or shell and flues as claimed in the United States Patent, numbered 11,295, as my invention or arrangement of flues, and the mode of carrying the heat about the ovens differ essentially therefrom. What I do claim, is, my improved arrangement of flues against the bottoms, the outer sides, the tops, the inner sides, and in rear of the two ovens, whereby the smoke after passing over the the tops of the two ovens, or either, is made to descend between them, and pass out into the back flue in manner as described. And with the said arrangement of flues or the parts thereof to which the same specially belong, or in other words, the top and diving flues of the two ovens, I claim the arrangement and application of a curved valve N, and its arched recess M, the whole being made to operate substantially in manner above described. I also claim the protector plate H, as combined and arranged with reference to the fire-place, the two ovens and the flue between the two ovens, and so as to support the ovens as set forth. I also claim the above described mode of making the upright flue D, leading from the fire-place or boiling chamber to the flue space about the oven, such flue being made with a reflecting back and tapering sides, and in other respects substantially as specified. I also claim the expansion safety plate *t*, as arranged with respect to the fire-place, and applied on the top plate of the boiling chamber in manner and for the purpose substantially as specified."

No. 22,490. Everard M. Clark, of Lancaster, Pa., for an "Improvement in smut machines."

"What I claim as my invention, and desire to secure by Letters Patent, are the diagonal grooved wings or beaters S,

the upper and longer grooved wings or beaters Q, the two sliding valves O, O, on the bottom of the machine for regulating the draught, when combined substantially as herein set forth."

No. 22,491. H. W. Collender, of New York, N. Y., for an "Improved billiard cue tips."

"What I claim as my invention, and desire to secure by Letters Patent, is, the new article of manufacture herein named, to wit, a cue leather or cue tip coated on its flat surface with a soluble gum or cement as described, for the purpose set forth."

No. 22,492. W. B. Culver, of Scranton, Pa., for an "Improvement in apparatus for hoisting and dumping coal."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the rod G, bars *f*, E, *c*, *c*, *i*, *j*, *j*, bail H, and inclined guides *e*, as and for the purpose herein shown and described."

No. 22,493. George H. Dickerman, of Boston, Mass., for an "Improvement in band-boxes."

"I claim the combination of a removable standard with the paper band-box, arranged substantially in the manner described for the purpose herein-before set forth."

No. 22,494. John B. Duane, of Schenectady, N.Y., for an "Improvement in cultivators."

"Having described my invention, I claim and desire to secure by Letters Patent, the arrangement and combination of the frame D, having wheels (*g*), bar F, wheel G, bar E, and frame A, as and for the purpose herein shown and described."

No. 22,495. John W. Einhaus, of New York, N. Y., for an "Improved escapement for time-keepers."

"Having now described my invention, and its operation, I will proceed to set forth, what I claim and desire to secure by Letters Patent of the United States. What I claim is, the use of a triangular-shaped pallet lever for an escapement pallet for clocks, watches, &c., with an escapement wheel contracted in the manner herein-before set forth; but irrespective of such use of my block pallet, I make no claim to the construction of the escapement wheel of itself, as my invention relates exclusively to the use and application of the block pallet substantially as herein-before set forth."

No. 22,496. George B. Field, of St. Louis, Mo., for an "Improvement in spading machines."

"Claim.—What I claim is propelling the shovels H, by means of single cranks G, attached to handles X, and guided by adjustable arms or levers L, so that the lower end of the shovels when in motion shall run in separate lines or furrows, the whole being constructed, arranged, and operating substantially as herein described."

No. 22,497. Micah Gillam, of Alba, Pa., for an "Improvement in washing machines."

"Having thus fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, the beaters or lifters arranged upon the rocker shaft within the half cylindrical tub lined with anti-friction rollers, the rocker-shaft being operated by the lever, vertical shaft, and connecting rods, and the whole being constructed and operated as herein set forth."

No. 22,498. William Gourley and Isaac Krebs, of Winchester, Va., for an "Improvement in the means of operating carriage brakes."

"Having described in full, the nature, construction, and operation of our improvements, what we claim as new, and desire to have secured by Letters Patent of the United States, is, the construction and application of the compound or double lever *d*, *d*, *e*, *e*, as described, and the crank-shaped rubber rod or brake bar *g*, *h*, *i* and T-shaped spring L, when combined and operated substantially as herein set forth and described."

No. 22,499. E. H. Hancock, of Augusta, Geo., for an "Improved machine for sawing laths."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the combination of the peculiar spirally-toothed feed rollers G, G¹, ordinary toothed or fluted feed rollers H, H¹, and obliquely set guide or gauge O, when the whole is arranged as described, and relatively to the saws, for the purposes herein set forth. 2nd, the combination of the rollers G¹, H, swinging frames L¹, L¹, shaft J pinions K, K, spur wheel L, and cog-wheel D, substantially as and for the purposes set forth. 3rd, the arrangement of the swing table B, bearing a portion of the machinery with respect to the frame A, and the rest of the machinery thereon, as set forth."

No. 22,500. John S. Harbison, of Sacramento, Cal., for an "Improvement in bee hives."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the graduating chamber B, in combination with the curtain C, and ventilating passages E and F, whereby air is admitted without light, into the hive, arranged substantially as and for the purpose herein described. 2nd, providing the adjustable sectional comb-frames K, with the flexible metal clamps *b*, *b*, when the frames are constructed and arranged in the manner described, for the purposes specified. While not claiming broadly the removal of a tier of boxes at one operation, nor the boxes of a tier separately, by means of a clamp irrespective of the mode of construction, I do claim, 3rd, the device composed of the parts L, *f*, *d*, *c*, in combination with a horizontal tier of boxes, arranged and operated as and for the purposes described."

No. 22,501. John W. Hedenberg, of St. Louis, Mo., for an "Improvement in coffee pots."

"I do not claim the condenser or reservoir, as these have been used before; but what I claim as my invention, and desire to secure by Letters Patent, is, the application of the chimney or pipe to the open space between the coffee pot and the condenser, for the purpose of causing a current of cold air to pass between the coffee pot and condenser, as set forth."

No. 22,502. Charles Howell, of Cleveland, Ohio, for an "Improvement in rotary harrows."

"Having thus described my improvement, what I claim as new, and desire to secure by Letters Patent, is,—first, the arrangement and combination of three rotary harrows, when the axis of each is inclined, in the manner and for the purposes substantially as described. Secondly, the arrangement of the hook (*c*), in relation to the front harrow when combined with two harrows in the rear, arranged to operate in the manner set forth."

No. 22,503. Lucius J. Knowles, of Warren, Mass., for an "Improved method of operating the valves of pumping engines."

"Claim:—I am aware that steam valves have been operated by means of the exhaust steam as it escapes from the cylinder, but such device will manifestly not answer in an engine that is required to start automatically at any instant when steam is admitted, and whatever may be the position of the main piston, as after a short stop there will be no exhaust steam to actuate the valve; I am also aware that the slide valve of direct-action engines has been moved partly by a tappet arm upon the main piston rod, and through the balance of its throw by an auxiliary piston, actuated by steam admitted through a secondary valve, which valve was opened by the tappet arm which started the main valve; and I, therefore, lay claim to neither of the above devices; but what I claim as my invention, and desire to secure by Letters Patent, is, controlling the motions and positions of the plunger G exclusively by steam admitted from the steam chest and by suitable exhausts, as set forth, for the purposes specified. 2nd, I claim the within-described arrangement of the induction ports *a* and *p* with respect to the exhaust ports *z* and *h*, and with respect to the throw of the plunger G, for the purpose specified. 3rd, I claim admitting a quantity of steam before the advancing plunger through the passages *s*, *h*, and *i*, *r*, for the purpose of arresting its motion, as set forth. 4th, I claim the secondary exhaust ports *v*, v^2, operating as described, for the purpose set forth. 5th, the peculiar construction of the main valve F, whereby the pressure upon the same is relieved as it passes the center of its throw and the piston is caused to start more gradually, as set forth."

No. 22,504. Isaac Krebs, of Winchester, Va., for an "Improvement in the means of operating carriage brakes."

"Having described the nature, construction, and operation of my improvements, and being fully aware that rubber blocks and brakes have been applied to the hubs of wheels, and operated also by draw rods and levers; therefore, such devices in themselves I do not claim; but what I do claim, and desire to have secured by Letters Patent of the United States, is, the levers *h*, I, J, with movable fulcrum *g*, *g*, the sliding adjusting connection rod and tap *n*, *n*, P, the slotted clip or fulcrum support *d*, *e*, *f*, and the spring rubber *r*, *s*, when constructed and arranged in combination as herein-before set forth and described."

No. 22,505. JOHN H. LEACH, of Oakville, M'd., for an "Improvement in machines for sowing guano and other fertilizers."

"Having thus fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is,—1, the arrangement of the covering section of the drill within the frame of the roller section, as and for the purposes herein set forth; and in connection therewith, I claim the arrangement of the box between the hopper and distributing spout, the box being attached to the hopper by pliable or elastic material, and being vibrated with the spout by the toothed wheel upon the axle, as herein described."

No. 22,506. T. LUCE and J. H. MORRISON, of Detroit, Mich., for an "Improvement in railroad sleeping cars."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the folding berth bottoms C attached to each side of a central partition B within the body of the car, in connection with the double row of single seats E, E, at each side of the car, with a passage way *n* between them, the innermost row of seats at each side of the car being provided with falling backs, and the whole arranged substantially as and for the purpose set forth."

No. 22,507. HENRY MAULE, of Philadelphia, Pa., for an "Improvement in railway alarm."

"Having thus described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is, the employment of the lever C, D, or its equivalent, in combination with an extra rail I, I^1, and with the steam whistle, the whole arranged and operating, substantially as above described, for sounding the steam whistle at any desired parts of the road."

No. 22,508. R. C. MAUCK, of Conrad's Store, Va., for an "Improvement in corn harvesters."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the bearing wheel G, arranged substantially as and for the purpose set forth. 2nd, the combination of the bearing wheel G, and the rest block *a* for submitting the stalk to the knife in the best manner to effect the cut. 3rd, guiding the machine by the passage of the groove I, over the stumps of the cut product."

No. 22,509. N. OLNEY and CHARLES H. KELLOGG, of Amhurst, Mass., for an "Improved spoke machine."

"We are aware that expanding cutter heads have been previously used, and we, therefore, do not claim broadly such device; but having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the expanding cutter heads D, in connection with the guides or patterns G, G, I, attached to the reciprocating carriage F, in which the stick A^1 to be operated upon is placed the guides or patterns G, G, I, actuating the cutter heads respectively by means of the mechanism, substantially as shown and described for the purpose set forth. We further claim, in combination with the expanding cutter heads D, and the guides or patterns G, G, I, on the carriage F, the circular saws Y, Y, fitted in the frame V, operated automatically by the carriage F, substantially as set forth."

No. 22,510. A. J. PEAVEY, of South Montville, Me., for an "Improved machine for cutting and punching iron."

"I do not claim the universal die box as such; but what I claim as my invention, and desire to secure by Letters Patent, is, the cylindrical die box B, in combination with the circular punch socket D, both punch and die being by their means capable of revolution upon their axes and adjustment to the required angles of the teeth of the saw to be gummed as herein specified. I do not claim the dividing plate and the parts necessary for its convenient operation, nor operating the punches by lever and cam separately considered; but I do claim the combination of the dividing plate O and its appendages, substantially as described, with the punching apparatus in the manner and for the purpose specified."

No. 22,511. C. S. PETTENGILL, of New Haven, Conn., for an "Improvement in revolving fire-arms."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, combining the hammer and the rotating dog with the trigger by means of a forked tumbler H, and a cam L, working on the same pin, the said cam being formed with a notched tail *m*, to engage and operate in combination with a horn on the trigger, substantially as and for the purpose set forth. 2nd, the bent dog I, applied as described on a fixed conical stud on the center of the rear of the breech supported, and combined with a cam L, on the tumbler pin *c*, to operate substantially as described. 3rd, the arrangement of the helical main spring upon a bolt which is jointed to the hammer, and which slides through a fixed guide in the rear thereof, substantially as herein described."

No. 22,512. WILLIAM PROVINES, of Columbia, Mo., for an "Improved machine for ditching, grading, &c."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the elevators I, rods K, shaft *f*, disk H, and shaft G, substantially as and for the purpose herein shown and described."

No. 22,513. C. B. ROGERS, of Deep River, Conn., for an "Improvement in machinery for pointing the teeth of hair combs."

"I do not claim broadly a wheel B, placed on a rotary shaft A, provided with a screw thread on its periphery, and recesses to form cutters irrespective of the form of said recesses, for such device is in common use; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, forming the recesses *c*, at the center and from the edges of the periphery of the wheel B, towards its center, so that each recess shall extend only partially across the periphery of the wheel and still cutting surfaces be formed entirely across it, without breaking or dividing the screw thread *b*, entirely across the wheel at any one point, substantially as and for the purpose set forth."

No. 22,514. PAUL A. SABBATON, of Albany, N. Y., for an "Improvement in sifting shovels."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a screening shovel composed of malleable cast iron, and otherwise made as herein shown and described."

No. 21,515. GELSTON SANFORD, of Poughkeepsie, N. Y., for an "Improvement in grinding and crushing mills."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is,—First, the arrangement and combination of a conical grinding surface, with a concentric shell composed of stationary and adjustable wedges or staves, which are provided with a means of adjustment, substantially as herein-before described, and substantially for the purposes herein before set forth. Second, the arrangement of the projecting surfaces C^1 of the cone, substantially as herein-before described and shown, so that by reversing the direction of the rotation of the cone small or large bodies may be crushed and ground in the mill."

No. 22,516. WILLIAM F. SHAW, of Boston, Mass. for an "Improvement in lamps."

"Thus far the foraminous deflector has been spoken of as particularly applicable to lamps, but it is obvious that it may, with equal advantage, be employed in connection with gas burners. I do not therefore intend to confine myself to its use in the peculiar lamp above described, but intend to apply it wherever it may be found to be useful. I am aware that deflectors have been perforated with holes near their base, the body of the deflector being of unperforated sheet metal; but I lay no claim to such a deflector as it would not accomplish the ends which I have in view; but what I do claim as my invention, and desire to secure by Letters Patent, is, the foraminous deflector herein described, operating in the manner substantially as set forth. 2nd, I claim the foraminous deflector, in combination with the perforated bottom air chamber, as set forth."

No. 22,517. ISAAC M. SINGER, of New York, N.Y., for an "Improvement in sewing machines."

"What I claim as my invention, and desire to secure by Letters Patent, in sewing machines, is, placing the spool within the shuttle, without any attachment, so that the heads thereof shall run in contact with the case of the shuttle, to give the required drag, substantially as described. I also claim, in combination with the shuttle cases, and the spool placed therein, without any connection, substantially as described, the employment of the spring plates, substantially as described, to form spring bearings for the pivots of the spool, as set forth. And I also claim the shuttle case and spool placed therein without any attachment, as described, in combination with the inclosing plate and the face of the shuttle

race, substantially as described, by means of which combination the spool is held in place by simply placing the shuttle in its race substantially as described."

No. 22,518. David Stuart, of Philadelphia, Pa. for an "Improvement in Franklin stoves."

"I do not claim forming an air space or chamber in which air circulates behind or in contact with the fire backs of stoves, and passes thence in a heated condition into the apartment, as that has long been known and used, but what I do claim as my improvement in Franklin stoves, is, forming the fire back of such stoves by the front wall of a cell or chamber, around or on both sides of which the draught passes, and through which the air circulates, as set forth, said cell or chamber being constructed and connected with the stove, in the manner set forth."

No. 22,519. William Herrmann Stubble, of Boston, Mass., for a "Lithographic printing press."

"Claim.—I claim the cylinder of rollers *m*, in combination with a revolving tympan and scraper, operating as set forth for the purpose described. 2nd, I claim the method of interrupting the motion of the gears C^2, and of again engaging them with the rack by means of the cams f^2, lever E^2, and pin a^2, operating in the manner set forth. 3rd, I claim hanging the parts which operate the scraper on springs 17, in the manner substantially as specified."

No. 22,520. George W. Tolhurst, of Liverpool, Ohio, for an "Improvement in cultivators."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the flanged quadrants F, pivots D, clamp hook E, braces C and C^1, teeth A, B, and rigid frame G, in the manner and for the purposes herein set forth and described."

No. 22,521. Alonzo Warner and Cyrus A. Warner, of Bristol, Conn., for an "Improved catch for hanging drapery."

"We do not claim the device of S. R. C. Denison, patented August 5/56, or that of D. N. B. Coffin, June 9/57; but what we claim, and desire to secure by Letters Patent, for hanging drapery, is, the spring catch B, as a new and improved article of manufacture, constructed as and for the purpose specified."

No. 22,522. Daniel Watson, of Newport, Ohio, for an "Improved mode of operating drain ploughs."

"Having thus fully described the nature and operation of my ditching plow, what I claim therein as new, and desire to secure by Letters Patent, is, combining with the crab or anchor H, and the plow, a traveling capstan J, which are connected together by a rope or chain, as herein represented, for the purpose of working said plow, as described."

No. 22,523. William Wells, of Boston, Mass., for an "Improvement in corn shellers."

"I claim the arrangement and combination of the shelling wheel A, guide B, clearer D, and weighted or spring presser C, constructed and operating in the manner described, for the purpose specified."

No. 22,524. Alonzo Whitcomb, of Worcester, Mass., for a "Copying press."

"Having thus described my improvement in screw presses, what I claim therein as new, and desire to secure by Letters Patent, is, when the screw is arranged to pass through and traverse a nut in the cross bar, connecting the screw and platen with each other in presses, by means of a cap on the upper side of the platen, with a spiral thread on its interior to correspond with the thread on the lower end of the screw, substantially as described, and for the purpose as set forth.

No. 22,525. Benjamin F. Bee, of Harwich, Mass., assignor to himself and James A. Woodbury, of Boston, Mass., for an "Improved screw propeller."

"What I claim, therefore, as my invention, and desire to secure by Letters Patent, is, the combination of the cylinder *a* with the longitudinal plates *e*, substantially as described."

No. 22,526. B. Bridendolph, of Clear Spring, Md., assignor to himself and O. K. Bovey, of said Clear Spring, for an "Improvement in horse rakes."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement, substantially as shown, of the handles C, C, rake head A, shafts D, D, runners F, F, and links or rods E, for the purpose set forth."

No. 22,527. Matthew Chapman, of Greenfield, Mass., assignor to the J. Russell Manufacturing Company, of said Greenfield, for an "Improvement in attaching handles to cutlery."

"I do not claim making handles for cutlery by compressing the same into the proper form by means of dies, for this has been previously done, horn and other substances having been thus compressed for similar and analogous purposes; but having thus described my invention, what I claim as new and desire to secure by Letters Patent, is, placing the handles in the rough on the tangs of the implements with or without the rivets, and compressing the same while on the tangs into proper form by means of dies, substantially as and for the purpose set forth."

No. 22,528. James C. Cooke, of Middletown, Conn.' assignor to the Russell Manufacturing Company, of said Middletown, for an "Improvement in manufacturing webbing."

"I do not herein claim the double hose, but my improvement or new fabric; therefore I claim as a new manufacture a fabric or belting, made not only of two or more sets of body warps and a single filling thread, passed through the decussations of the said warps alternately or otherwise, but with confining warps arranged and crossed on the filling, and between the body warps and at various or numerous intervals between the two edges of the fabric, so as to bind together the cloths made by the body warps, and form them with no straight or continuous parallel ridges."

No. 22,529. Robt. Fitts, of New Ipswich, N.H., assignor to C. and G. C. Winchester, of Ashburnham, Mass., for an "Improved method of bending wood."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, bending a piece of wood around a fixed form by means of the series of blocks, levers and connecting bars, arranged and operating in the manner set forth. 2nd, and in combination with the above, I claim the spring face plate *u*, attached to the blocks E, substantially in the manner and for the purpose specified."

No. 22,530. William G. Hamilton, of New York, N. Y., assignor to John C. Hamilton, of said New York, for an "Improvement in bridge walls in boiler furnaces."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the hanging of the bridge wall upon an axis, in the manner described, or equivalent, by which it is made capable of being folded down out of the way, as set forth, and also the making of the axis hollow terminating with an opening forward as described and shown, for the purpose stated."

No. 22,531. David E. Hughes, of New York, N.Y., assignor to American Telegraph Company, of said New York, for an "Improvement in electro-magnetic telegraphing."

"I claim introducing into that portion of the electric current which passes to the opposite pole of the machine at the station where the operator is working a retarder, such substantially as herein described, whereby said portion shall not reach the near ground plate, until after the other portion of the same current shall have passed over the line wire, and reached the distant ground plate, whereby said current is enabled to flow through the machine situated at the place of the operator, as aforesaid, without setting said machine in motion, substantially as described."

No. 22,532. Damase Lamoureux, of New York, N.Y., assignor to Alexander Douglas and Samuel S. Sherwood, of said New York, for an "Improvement in manufacturing corsets and bustles."

"I do not claim making a bustle of hoops, either wholly or partially encircling the body of the wearer, and forced back away from the body upon the back side, by means other than the combination of the bustle with the corset. What I claim as my invention, and desire to secure by Letters Patent, is, the new article of manufacture constituting a corset and bustle, when constructed in the manner described for the purposes set forth."

No. 22,533. Stephen C. Mendenhall, of Richmond, Ind., assignor to Isaac Lamb, of said Richmond, for an "Improvement in looms."

"I claim herein as new, and desire to secure by Letters Patent, 1st, the treadle roller G, carrier E, F, and spring H, in combination with the scroll cam I, arranged in the box D, for the purpose of operating the treadles, substantially in the manner described. 2nd, the hook J, having an adjustable and hinged attachment to the breast beam, when combined with a set screw to determine its position, and operating on the scroll cam, in the manner set forth. 3rd, the combination with the treadle of the graduated series of mortises *z*, and pin *y*, for the purpose of regulating the width of the shed. 4th, the combination of the picker spring P' sliding catches *o*, triggers *u*, and straps Q, T, for the purpose of throwing the shuttle, as set forth. 5th, the combination of the double eccentric pulley R, S, and straps Q, T, with the set screws 6, arranged substantially in the manner described, for the purpose of expanding the picker spring P, in such a manner as to equalize the power at each forward motion of the lay or batten."

No. 22,534, Goodloe H. Taylor, of Shelburne, Mass., assignor to himself and William Sherwin, of Shelburne Falls, Mass., for an "Improvement in lasts."

"Having thus fully described the nature and object of my fastening, and shown wherein it differs from all other things for a similar purpose, what I claim therein as new, and desire to secure by Letters Patent, is, so pivoting the hook or lever *c* as that the strain shall come upon said pivot, and not upon the spring, by which means I effect a better and more certain fastening, as set forth and explained."

No. 22,535. James D. Willoughby, of Carlisle, Pa., assignor to C. M. Alexander, of Washington, D. C., for an "Improvement in sealing cans and bottles."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, the arrangement of the disks B and E, screw F, and top *c*, with the rubber D, in such a manner that when the rubber is compressed its periphery will press tightly against the insides of the can or bottle mouth, while its center presses against the rod or screw F, for the purpose of effectually excluding the air, as is herein fully described. 2nd, I also claim the subject of the 1st claim, in combination with the neck of the bottle or can, as constructed for the purposes herein set forth."

No. 22,536. Ephraim D. Rosencrantz and Willard H. Smith, of New York, N. Y, assignors to said Rosencrantz and Barton E. Clark, of said New York, for an "Improvement in burners for vapour lamps."

"What we claim as our invention, and desire to secure by Letters Patent, is, the employment of a tube A for holding the wick when provided with a plate (*a*) and perforations *f*, *f*, for the purposes set forth. We claim the employment of a cap D, or heater, having perforations (*b*, *b*,) tangential to its periphery, substantially as set forth, when used with a wick tube A, in the manner and for the purposes set forth."

No. 22,537. Charles E. H. Richardson, of Philadelphia, Pa., for an "Improvement in coffins."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of a coffin or casket, made air and moisture tight by a double lining of cloth and cork, prepared and combined in the manner and for the purpose, substantially as above described."

Re-issues.

Abraham Coates, of New York, N. Y., for an "Improvement in regulating the flow of oil to the wick in carcel lamps." — Patented 25th March, 1856.—Re-issued 4th January, 1859.

"Claims.—What I claim as my invention, and improvement in lamps, in which the oil is forced to the wick so as to overflow, is, regulating the supply of oil to the burner by means of the self-employing drip cup, operating upon the supply valve. I claim also, placing the fountain or reservoir for the oil above the lens, with its draught opening, and its supply pipe within the barrel or chamber of the lens."

Henry Burt and James T. Hedden, of Newark, N. J., for an "Improved machine for making hames."— Patented 17th February, 1857.—Re-issued 4th January, 1859.

"Claim.—The forging of metal into useful forms by the employment of two or more pairs of rolls, having their surfaces cut away, and combined and rotating and pressing the metal progressively into shape, being conducted from one pair of rolls to another through the agency of the guides."

H. A. Harvey, of New York, N.Y., assignee through mesne assignment of Thomas W. Harvey, late of said New York, for an "Improvement in machinery for dressing screw heads."—Patented 18th August, 1846.—Re-issued 4th January, 1859.

"Claims.—First, the employment of a pair of spring pincers which receive the blanks one at a time, and presents them to the jaws point foremost. Second, in combination with the mandrel and jaws, or equivalent means for receiving and holding the screw blanks, the employment of a punch or driver for inserting the blanks to the required distance Third, the combination of the movable rest with the movable cutter head, and for the purpose of giving support to the blank and get out of the way so soon as the cutting operation is completed, and is claimed, whether the cutting operation be performed on the head or any other part oi the blank. Fifth, the particular manner of constructing the adjustable turning head, the slide or seat piece, the tool holder, sliding on the piece between the check pieces, with the respective adjustments thereof, combined, arranged, and operating so as to effect the setting of the tool. The manner of operating the griping dies, and of separating the blanks in the hopper and conveying them to the feeding fingers, being similar to those described and used in the machine for cutting the threads."

Anthony W. Goodell, of Brooklyn, N. Y., and Nelson R. Scovell, of Albany, N. Y., assignees through mesne assignment of Wm. Lyon, of Newark, N. J., for an "Improvement in sewing machines."—Patented December, 1854.—Re-issued 4th January, 1859.

"Claims.—First, the combination of a feeding foot, pressed on to the cloth and moved to feed the cloth, and then released from said cloth and returned to its former position with a clamping foot that is raised when the feed of the cloth takes place. Second, the vibrating bar, feeding foot, arm, and revolving studs, arranged and acting to communicate motion to the feeding foot. Third, a looping instrument, constructed with a cavity or notch and an eye carrying the second thread, and receiving a sideways movement after the said looper has passed through the loop of needle thread, for the purpose of carrying the second thread across and beyond the descending path of the needle, when said looper remains in a position for the needle to enter said cavity or notch as it descends between the looper and the second thread, and then said looper receives a sideways movement to its original position, to clear the needle in drawing back. Fourth, the reciprocating looper, formed with the cavity, and with an incline, in combination with a stationary screw, or its equivalent, to communicate the required sideways movement to the looper. Fifth, the arrangement of the segmental spring looper and arm on the rocking shaft, for the purpose of adjusting and securing (by the screws) the looping point in the desired position with great ease and accuracy."

Designs.

Conrad Harris and Paul W. Zoiner, of Cincinnati, O., assignors to Harris, Zoiner, and Co., of said Cincinnati, for a "Design for dining-room stoves."

"Claim.—The scrolls, figures, and fluting, thereby forming an ornamental design for dining-room stoves, to be called the 'Trio.'"

Conrad Harris and Paul W. Zoiner, of Cincinnati, Ohio, assignors to Harris, Zoiner, and Co. of same place, for "Designs for cook's stoves."

"Claim.—The scrolls, foliage, and mouldings, and thereby for an ornamental design for coal cooking stoves, to be known and called the 'Pluto.'"

Extensions.

Henry Stanley, of Poultney, Vt., for an "Improvement in coal stoves."—Patented 4th January, 1845.—Extended 4th January, 1859.

"Claim.—The manner in which I have combined and arranged the two stories thereof, consisting of two cylinders, with the eight triangular radiating flues arranged around and in contact with them, said flues communicating with the flue space in the plinth with the intermediate chamber and with the cornice space, the two latter being divided by partitions into anterior and posterior portions, and there being also openings through the upper end of the upper cylinder into the cornice space, it being distinctly understood that I do not make any claim to either of the individual parts, taken separately and alone, but that I limit my claim to the combination and arrangement thereof as a whole, not intending, however, by this claim, to confine myself, in constructing my stove, to the particular form of the respective parts, but to vary these as I may deem expedient whilst I attain the same end."

Eleazer Carver, of Bridgewater, Mass., for an "Improvement in saw cotton gin."—Patented 4th January, 1845.—Extended 4th January, 1859.

"Claim.—The combination of a cylinder brush, having fans on the end thereof with a cotton gin."

List of Specifications, &c. published during the week ending 20th January, 1859.

No.	Price.	Subject-Matter.
		1858 (*Disclaimer*).
23	3*d.*	Pneumatic pegs, brackets, &c.
158	3*d.*	Bending and reefing ships' sails, &c.
1248	7*d.*	Gas meters.
1341	1*s.* 5*d.*	Composing and distributing types.
1343	3*d.*	Preparing and casting metals.
1344	9*d.*	Gas stoves, &c.
1345	3*d.*	Guides for winding or reeling machines.
1346	6*d.*	Machinery for breaking or crushing stones, ores, &c.
1348	1*s.* 1*d.*	Smoke consuming apparatus, &c.
1349	7*d.*	Manufacture of woven fabrics.
1350	7*d.*	Door knobs or handles.
1351	6*d.*	Steam boilers.
1353	10*d.*	Refrigerating apparatus.
1354	3*d.*	Manufacture of steel.
1356	3*d.*	Fireproof composition or wash.
1357	3*s.*	Machinery and tools for the manufacture of umbrellas and parasols, &c.
1358	3*d.*	Obtaining motive power.
1359	1*s.* 10*d.*	Apparatus to be used in the construction of small boats.
1360	10*d.*	Sewing machine.
1361	9*d.*	Instrument for charging cartridges.
1362	3*d.*	Screening, winnowing, and corn-dressing machines.
1363	1*s.* 6*d.*	Treatment of India and China grass, &c.
1364	10*d.*	Machinery for scutching and heckling flax, hemp, &c.
1365	3*d.*	Apparatus for indicating the height of water in steam boilers.
1366	3*d.*	Construction of iron ships.
1367	7*d.*	Equilibrium slide valve for steam engines.
1368	7*d.*	Moulds for casting.
1369	3*d.*	Manufacture of hats.
1370	3*d.*	Manufacture of japanned wares.
1371	3*d.*	Looms for weaving, &c.
1372	3*d.*	Gasaliers.
1373	4*d.*	Apparatus for the manufacture of fuel.
1374	3*d.*	Apparatus for obtaining motive power.
1375	8*d.*	Machinery for putting straps or belts on to pulleys or drums, &c.
1376	3*d.*	Treatment of zinc ores, &c.
1377	3*d.*	Manufacture of india rubber or gutta percha solutions, &c.
1378	3*d.*	Fire-arms.
1379	3*d.*	Manufacture of cords, ropes, and cables.
1380	3*d.*	Clogs, shoes, &c.
1381	6*d.*	Obtaining electro motive power.
1382	3*d.*	Obtaining tungstic acid, &c.
1383	3*d.*	Printing cotton and other fabrics, &c.
1385	3*d.*	Apparatus for obtaining and applying motive power.
1386	7*d.*	Steam vessels.
1387	7*d.*	Steam vessels.
1388	7*d.*	Ocean steamers.
1389	6*d.*	Mode of combining the engines and propeller shafts of steam vessels.
1390	5*d.*	Engines worked by steam or atmospheric pressure.
1391	6*d.*	Manufacture of laths, &c.
1393	3*d.*	Preserving or waterproofing ropes, &c.
1394	3*d.*	Steam cocks.
1396	3*d.*	Method of supporting knapsacks.
1397	1*s.* 3*d.*	Machinery for grinding, smoothing, and polishing glass.
1398	8*d.*	Lamps.
1399	3*d.*	Water-closets.
1400	6*d.*	Separating the fibres of wood for the manufacture of paper, &c.
1401	3*d.*	Manufacture of spoons and forks
1403	3*d.*	Apparatus for ventilating, &c.
1405	3*d.*	Spinning machines.
1408	3*d.*	Machinery for felling trees.
1411	3*d.*	Manufacture of white lead.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

Free Patent Museum and Library, South Kensington.

NUMBERS of VISITORS for the Week ending 22nd January, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Jan. 17	Monday -	143	504	647—Fine.
„ 18	Tuesday -	145	336	481— „
„ 19	Wednesday	103	91	194— „
„ 20	Thursday -	100	—	100— „
„ 21	Friday -	72	—	72— „
„ 22	Saturday -	148	—	148—Dull.
	Total -	711	931	1642

Total number of visitors since the period of free daily admission (12th May, 1858) to 22nd January, 1859, —60,240.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS. —This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

The following contribution has been received since the last notice:—

From HENRY DIRCKS, Esq.:

Portrait of the late Mr. John Roberts, of St. Helen's, Lancashire, a working miner, rewarded by the Society of Arts for his Invention of an Apparatus for use in exploring houses on fire, foul sewers, &c.; and afterwards for Improvements in Davy's Safety Lamp. Drawn from life by the Donor in 1829.

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. CURTIS for a Patent. Price 1*s.*

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s.* 6*d.*

In course of Publication, by Order of the Commissioners.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

The classes already published are,—

1. DRAIN TILES AND PIPES, price 6*d.*
2. SEWING AND EMBROIDERING, price 6*d.*
3. MANURE, price 6*d.*
4. PRESERVATION OF FOOD, price 6*d.*
5. MARINE PROPULSION, price 4*s.*
6. MANUFACTURE OF IRON AND STEEL, price 5*s.*
7. AIDS TO LOCOMOTION, price 1*s.*
8. STEAM CULTURE, price 2*s.*
9. WATCHES, CLOCKS, AND OTHER TIME-KEEPERS, price 1*s.* 6*d.*
10. FIRE-ARMS AND OTHER WEAPONS, AMMUNITION, AND ACCOUTREMENTS, price 6*s.* 6*d.*
11. PAPER.—PART I. MANUFACTURE OF PAPER, PASTEBOARD, AND PAPIER MÂCHÉ.

The following are in the press:—

PAPER.—PART II. CUTTING, FOLDING, AND ORNAMENTING; INCLUDING ENVELOPES, CARDS, PAPER-HANGINGS, &c.
ELECTRICITY AND MAGNETISM: THEIR GENERATION AND APPLICATIONS.
TYPOGRAPHIC, LITHOGRAPHIC, AND PLATE PRINTING.
BLEACHING, DYEING, AND PRINTING YARNS AND FABRICS.
PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 529. FRIDAY, JANUARY 28, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2832. To JOHN BETHELL, of No. 8, Parliament Street, in the county of Middlesex, Gentleman, for the invention of "Improvements in machinery and apparatus for the preservation and coloring of wood."

On his petition, recorded in the Office of the Commissioners on the 10th day of December, 1858.

3004. To JOHN HENRY SIEVERS, of 48, Rathbone Place, Oxford Street, London, Gentleman, for the invention of "Apparatus for tightening and releasing the belly bands of riding saddles."—A communication from Monsieur Charles Zipp, of Paris.

On his petition, recorded in the Office of the Commissioners on the 31st day of December, 1858.

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28. To EDMUND BALCHIN, of Myton Gate, Hull, in the county of York, Gun Maker, for the invention of "An improved construction of projectile, applicable to the whale fishery."

On his petition, recorded in the Office of the Commissioners on the 3rd day of January, 1859.

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52. To ISAAC HOLDEN, of St. Denis, near Paris, in the empire of France, and ANGUS HOLDEN, of Bradford, in the county of York, for the invention of "Improvements in means or apparatus employed in preparing and combing wool and other fibres."

54. To JEAN JOSEPH FLORANCE, of Paris, France, Merchant, for the invention of "Improvements in reels or spooling-wheels."

56. To ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, for the invention of "Improvements in electric and magnetic telegraphs."

58. And to HENRY REYNOLDS, of Denmark Hill, in the county of Surrey, Gentleman, for the invention of "Improvements in refining and decolorizing saccharine substances."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of January, 1859.

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60. To HENRY HARDEN, of Dundalk, in the county of Louth, Ireland, Locomotive Superintendent to the 'Dublin and Belfast Junction Railway Company,' for the invention of "Improvements in fire bars for steam boiler and other furnaces."

62. To DENNY FRIEDLAUDER, of Manchester, in the county of Lancaster, Wholesale Tobacconist, for the invention of "An improved smoking pipe."

64. And to FREDERICK VERSMANN and ALPHONS OPPENHEIM, of Bury Court, St. Mary Axe, in the city of London, Analytical Chemists, for the invention of "Improvements in the treatment of various substances, by which to render the same uninflammable."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of January, 1859.

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72. To ROBERT DAWSON CLEGG, of Manchester, in the county of Lancaster, for the invention of "Improvements in signalling apparatus."

74. To THOMAS JAMES CLAXTON, of the city of Montreal, Canada, Merchant, for the invention of "Improvements in the manufacture of boots and shoes."—A communication from Mellen Bray, of Montreal aforesaid, Boot and Shoe Maker.

76. And to JOHN STEWART MARGETSON, of Cheapside, in the city of London, for the invention of "An improved box or case, suitable for hats, collars, and other useful purposes."

On their several petitions, recorded in the Office of the Commissioners, on the 10th day of January, 1859.

80. To Charles Middleton Kernot, of Gloucester House, West Cowes, Isle of Wight, in the county of Southampton, Doctor of Medicine, Doctor of Laws and Logic, Doctor of Philosophy, and Member of the Royal College of Surgeons, England, &c., for the invention of "Improvements in purifying and decolorising paraffine, and rendering the same white, hard, and sweet."

82. To Benjamin Robbin, of Yarmouth, Nova Scotia, Master Mariner, for the invention of "Improvements in the machinery for working pumps."

84. To David Edward Hughes, of New York, but now residing at Northampton Square, in the county of Middlesex, Telegraphic Engineer, for the invention of "An improved mode of insulating electrical conducting wires."

86. To Robert Hawthorn and William Hawthorn, both of the town and county of Newcastle-upon-Tyne, Engineers, for the invention of "Improvements in apparatus for promoting combustion and preventing smoke in coal-burning locomotives and other steam-boiler furnaces."

88. And to Frederick Versmann and Alphons Oppenheim, of Bury Court, St. Mary Axe, in the city of London, Analytical Chemists, for the invention of "Improvements in rendering fabrics and substances non-inflammable."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of January, 1859.

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90. To Philippe Bouché, of 57, Rue de Bretagne, Paris, in the empire of France, Stays Manufacturer, for the invention of "Improvements in the used means for mechanically raising up the gowns of ladies and young ladies."

91. To William Bray and William Thomas George Bray, both of Folkestone, in the county of Kent, Engineers, for the invention of "Improvements in locomotive and traction engines."

92. To William Oliver, of Shadwell, in the county of Middlesex, for the invention of "Improvements in boats, and in the mode of propelling them."

93. To John Thomson, of Dundee, in the county of Forfar, Manufacturer, for the invention of "Improvements in the manufacture of rugs."

94. To Joseph Hands, of Elgin Crescent, Notting Hill, in the county of Middlesex, Surgeon, for the invention of "Improvements in preserving or preparing skins intended to be converted into leather, or otherwise manufactured."

95. To Joseph Gibbons, of No. 345, Oxford Street, in the county of Middlesex, for the invention of "Improvements in fixing door and other knobs."

96. To Samuel Canning and Henry Clifford, both of Leadenhall Street, in the city of London, Engineers, for the invention of "Improvements in machinery for paying out and for recovering or picking up submarine telegraph ropes, cables, or chains."

97. To Thomas Elwell, of Paris, in the empire of France, Engineer, for the invention of "Improvements in governors for steam engines and other motive power engines."

98. To William McNaught, of Manchester, in the county of Lancaster, Engineer, and William McNaught, of Rochdale, in the county of Lancaster, Engineer, for the invention of "Improvements in steam engines and in apparatus connected therewith."

99. To Samuel Phillips, of Moseley, in the county of Worcester, Gentleman, for the invention of "Improvements in fastenings for securing windows, shutters, and doors, and for other similar uses."

100. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "A new or improved metallic alloy."

101. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement or improvements in the manufacture of cast steel."

102. To Charles Neale May, of Devizes, in the county of Wilts, Engineer, for the invention of "Improvements in sluice valves."

103. And to Charles Beslay, of 52, Rue St. Sebastien, Paris, in the empire of France, Engineer, for the invention of "Improvements in coating or covering iron or steel with tin, zinc, or lead, or alloys of those metals, by electrical deposit."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of January, 1859.

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104. To Charles Neale May, of Devizes, in the county of Wiltshire, Engineer, for the invention of "An improved heat indicator."

105. To Richard Ashton Lightoller, of Chorley, in the county of Lancaster, Cotton Spinner, for the invention of "Certain improvements in machinery or apparatus for spinning cotton or other fibrous materials."

107. To William Henry Crispin, of Marsh Gate Lane, Stratford, in the county of Essex, Copper Smelter, for the invention of "Improvements in the construction of ships and other sailing and steam vessels."

108. To Henry Critchley, of Bury, in the county of Lancaster, Engineer, and Solomon Elston, of the same place, Engineer, for the invention of "Certain improvements in pistons for steam engines or other purposes."

109. To George Scopes, of Needham Market, in the county of Suffolk, Bricklayer, for the invention of "Improvements in apparatus for communicating motion to cots, cradles, and other articles for children's use."

110. To John Picksley and Reuben Sims, of Bedford Foundry, Leigh, in the county of Lancaster, Machine Makers, for the invention of "Improvements in lawn mowing machines."

111. To William Henry Morrison, of Nottingham, Manufacturer, for the invention of "Improvements in wind musical instruments."

112. To Daniel Lancaster Banks, of Kennington, in the county of Surrey, Engineer, for the invention of "A method of constructing a travelling suspension rail or roadway, applicable, among other uses, as a bridge and lifting agent."

113. To James John Stevens, of Darlington Works, Southwark, in the county of Surrey, Engineer, for the invention of "Improvement in railway signal apparatuses."

114. To François Jules Manceau, of Paris, in the empire of France, Manufacturer, and Eugene Napoléon Vieillard, of the same place, Gunsmith, for the invention of "Improvements in breech-loading fire arms and in cartridges."

115. To John Grist, of Beazley Crescent, Old Ford, in the county of Middlesex, Engineer, for the invention of "Improvements in machinery for cutting and shaping staves and heads for casks, and for the manufacture of casks."

116. To William Arthur Chadwick, of Wandsworth Road, in the county of Surrey, Merchant, for the invention of "A musical instrument, chiefly for teaching the intervals of musical scales."

118. To Thomas Herbert, of the firm of Thomas Herbert and Company, of Nottingham, and Edward Whitaker, also of Nottingham, for the invention of "Improvements in the manufacture of warp lace."

119. To Owen Rowland, of No. 4, Chapel Street West, May Fair, in the county of Middlesex, for the invention of "Improvements in laying electric telegraph wires in streets."

120. To Joseph Barrans, of No. 2, Caledonian Terrace, Queen's Road, Peckham, in the county of Surrey, for the invention of "Improvements in traction and portable steam engines."

121. And to Thomas Sampson, of Calle Cartaños, No. 8, Barcelona, Spain, for the invention of "Improvements in apparatus for feeding steam boilers with water."

On their several petitions recorded in the Office of the Commissioners on the 13*th day of January*, 1859.

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122. To Samuel Holt, of the city of Manchester, in the county of Lancaster, Silk Manufacturer, for the invention of "A new and improved manufacture of woven silk fabrics."

124. To William Craft, of 12, Cambridge Road, Hammersmith, and Thomas Wilson, of Bradmore House, Chiswick, both in the county of Middlesex, for the invention of "Improvements in drawers and napkins so as to render the same waterproof."

125. To William Davis, of No. 2, Ann Street, Globe Fields, Mile End, in the county of Middlesex, for the invention of "Improvements in sluice valves."

126. To John Dauglish, of Tunbridge Wells, M.D., for the invention of "Improvements in obtaining carbonic acid gas."

127. And to Robert Romaine, of Chapel Street, Bedford Row, in the county of Middlesex, Gentleman, for the invention of "An improved arrangement of portable railway."

On their several petitions, recorded in the Office of the Commissioners on the 14*th day of January*, 1859.

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129. To William Henry Edward McKnight, of Lydiard House, near Swindon, co. Wilts, for the invention of "An upright-celled boiler applicable to all heating purposes by hot water or other fluid."

131. To Daniel Lancaster Banks, of 3, Kennington Row, Kennington Park, in the county of Surrey, Engineer, for the invention of "Improvements in the method of constructing a travelling suspension rail or roadway, to be used for the cultivation of land."

133. And to William Betts, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, for the invention of "Improvements in the manufacture of capsules, and in the apparatus to be employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 15*th day of January*, 1859.

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135. To William Morgan, of 31, Grafton Street, Fitzroy Square, in the county of Middlesex, Gentleman, for the invention of "Improvements in printing and stencilling, and in the apparatus or machinery used therein, also for certain applications of such printing and stencilling."

137. To James Montgomery, of the city of New York, in the United States of America, for the invention of "Improvements in the construction of the hulls of steam and other vessels, and in the feed-water heaters, boilers, water-gauges, condensers, engines, and propelling machinery appertaining to the former, a portion of which improvements (with the exception of those on the hull, are applicable to analogous useful purposes."

139. To Pierre Amable de Saint Simon Sicard, of Paris, in the French empire, Chemist, for the invention of "An improved process and apparatus for converting cast iron into steel."

141. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in sewing machines."—A communication from Elias Howe, junior, of Brooklyn, in the United States of America.

143. To Roger George Salter, of Alphington, in the county of Devon, Engineer, for the invention of "Improvements in apparatuses for collecting or picking up letters, papers, and other articles requiring to be stamped or printed."

145. And to Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in the manufacture of cast steel."

On their several petitions, recorded in the Office of the Commissioners on the 17*th day of January*, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

28*th January*, 1859.

1714. Jesse Brierley, of Kirkheaton, in the county of York, Manufacturer, for an invention of "Improvements in machinery or apparatus for spinning wool and other fibres."—Dated 29th July, 1858.

1716. Joseph Frederick Wilks Featherstonhaugh, of Surrey Square, Newington, in the county of Surrey, Engineer, and Francis Wise, of Peckham Grove, Camberwell, in the same county, Consulting Engineer, for an invention of "An improved self-acting apparatus for admitting water to steam boilers and indicating the water level."—Dated 30th July, 1858.

1722. James Watkins, of Newport, in the county of Monmouth, for an invention of "Improvements in machinery or apparatus for the manufacture of tallow and other candles."—Dated 30th July, 1858.

1723. Christian Schiele and Frederick Schiele, both of Oldham, in the county of Lancaster, Engineers, for an invention of "Certain improvements in 'hydro-extractors' or centrifugal drying machines, and in the method of lubricating their bearings, which method is also applicable to other bearings where lubrication is required."—Dated 30th July, 1858.

1725. Thomas Webb, of Tutbury, in the county of Derby, Cotton Spinner, and James Craig, of the same place, Manager, for an invention of "Improvements applicable to spinning, doubling, winding, and warping yarns or threads."—Dated 30th July, 1858.

1726. John Davey, Mine Agent, Hugh Sims, Accountant, John Mayne, Mine Agent, William Hodge, Smith, and John Gerrans, Miner, all of the parish of Gwennap, in the county of Cornwall, for an invention of "An improved construction of valve, applicable to various descriptions of engines or machinery."—Dated 30th July, 1858.

1729. Joseph Sharp Bailey, Machine Wool Comber, of Keighley, in the county of York, for an invention of "Improvements in machinery for combing wool and other fibrous materials."—Dated 31st July, 1858.

1733. George Ashcroft, Engineer, and Henry Walker Wood, Gentleman, both of Blackweir, Cardiff, in the county of Glamorgan, South Wales, for an invention of "An improvement in hydraulic machinery."—Dated 31st July, 1858.

1734. George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "Improvements in apparatus for planing electrotype and stereotype plates."—A communication from Robert Wheeler, resident at Brooklyn, in the state of New York, U. S. A.—Dated 31st July, 1858.

1736. Henry Conybeare, of Abingdon Street, in the city of Westminster, Civil Engineer, for an invention of "Improved apparatus and machinery for the laying of submarine telegraph cables."—Dated 31st July, 1858.

737. Henry Conybeare, of Abingdon Street, in the city of Westminster, Civil Engineer, for an invention of "Improvements in apparatuses for generating and super-heating steam, and for producing the condensation of steam."—Dated 31st July, 1858.

1750. James Lee Norton, of Belle Sauvage Yard, Ludgate Hill, in the city of London, for an invention of "Improvements in apparatus for drying wool and other substances."—Dated 2nd August, 1858.

1758. Robert Cunningham, of Paisley, in the county of Renfrew, North Britain, Card Perforator, for an invention of "Improvements in the production of letter-press printing surfaces, and surfaces used in reproducing ornamental patterns or devices by printing or otherwise, and in the apparatus connected therewith."—Dated 3rd August, 1858."

1760. George Bell, Die Maker, in the employment of Thorne and Lemon, of Fore Street, in the city of London, Engineers, for an invention of "Improvements in embossing and printing dies, and in the manufacture of 'lace' or perforated embossed paper."—Dated 3rd August, 1858.

1763. John Greenwood, of Rawden, near Leeds, in the county of York, for an invention of "Improvements in the construction of steam boilers and other apparatus for heating water or superheating steam, which improvements are also applicable when heating air."—Dated 3rd August, 1858.

1768. James Taylor, of Birkenhead, Engineer, for an invention of "Pneumatic and hydraulic machines."—Dated 4th August, 1858.

1776. Jozé Luis, Patent Agent, of 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "A new system of truss."—A communication from a Foreigner residing abroad.—Dated 5th August, 1858.

1859. Archibald Slate, of Adelaide Road, Haverstock Hill, in the county of Middlesex, for an invention of "Improvements in blast furnaces, and in smelting iron ore."—Dated 14th August, 1858.

1946. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements applicable to vessels employed in the manufacture of glass or the melting of vitreous substances."—Dated 27th August, 1858.

1950. Jonathan Ireland, of the city of Manchester, in the county of Lancaster, Foundry Engineer, for an invention of "Improvements in cupola furnaces."—Dated 28th August, 1858.

1978. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in gas burners."—Dated 31st August, 1858.

2046. Joseph Wright senior and Joseph Wright junior, of 5, Market Terrace, Caledonian Road, Islington, in the county of Middlesex, Eyelet and Punching Machine Manufacturers, for an invention of "Improvements in machinery and apparatus used for preparing fabrics or materials to receive eyelet holes or fastenings and fixing eyelet holes, and in fastenings for stays and other articles."—Dated 9th September, 1858.

2156. Collinson Hall, of Navestock, in th county of Essex, Esquire, for an invention o "Improvements in apparatus for applying power to the cultivation of the soil."—Dated 25th September, 1858.

2310. Thomas Wright Gardener Treeby, of No. 1, Westbourn Terrace Villas, Paddington, in the county of Middlesex, Gentleman, for an invention of "An improvement in breech loading fire arms and cannon."—Dated 16th October, 1858.

2317. Benjamin Nickels, of Mitcham, in the county of Surrey, Analytical and Metallurgic Chemist, for an invention of "Improvements in electric telegraphs."—Dated 16th October, 1858.

2399. John William Mott, of Lea Bridge Road, in the county of Middlesex, for an invention of "Improvements in pouches of india rubber for holding tobacco or other substances."— Dated 27th October, 1858.

2452. Hyacinthe Tertian-Moret, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "The application of a mineral named Deterso, as a disinfecting, preserving, absorbing, and curative powder."—Dated 3rd November, 1858.

2498. William Smith, of Little Woolstone, in the county of Buckingham, for an invention of "Improvements in apparatus for supporting the hauling ropes when hauling ploughs and other agricultural implements by steam power."—Dated 8th November, 1858.

2606. John May Miller, of Barnstaple, in the county of Devon, Lace Manufacturer, and John Fear, of the same place, Machinist, for an invention of "Improvements in machinery for winding fibrous substances or materials when in the form of thread or yarn on to the bobbins or wheels used in lace machinery."—Dated 18th November, 1858.

2652. Edward Hammond Bentall, of Heybridge, in the county of Essex, Ironfounder, for an invention of "An improvement in the construction of turnip cutters."—Dated 22nd November, 1858.

2660. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for sweeping floors."—Dated 23rd November, 1858.

2698. Robert Alexander, of Dillichip, in the county of Dumbarton, North Britain, Bleacher, for an invention of "Improvements in treating, preparing, and bleaching textile fabrics and other materials."—Dated 27th November, 1858.

2721. John Gresham, of Hull, Esquire, for an invention of "Improvements in apparatus for preserving ships' papers, and other papers and writings, in case of the loss of or accident to a ship whilst at sea."—Dated 29th November, 1858.

2754. Lauchlan Mac Kirdy, of the Glebe Sugar House, Greenock, in the county of Renfrew, North Britain, Sugar Refiner, for an invention of "Improved combined bathing, washing, and water-closet apparatus."—Dated 2nd December, 1858.

2755. Lauchlan Mac Kirdy, of the Glebe Sugar House, Greenock, in the county of Renfrew, North Britain, Sugar Refiner, for an invention of "Improvements in the manufacture of sugar."—Dated 2nd December, 1858.

2767. Charles Coates, of Sunnyside, near Rawtenstall, in the county of Lancaster, Engineer, for an invention of "Improvements in maundrills for printing."—Dated 3rd December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 26th January*, 1859, *inclusive.*)

24th January.

222. John Wormald, of Manchester, in the county of Lancaster, Calenderer and Packer, for an invention of "Certain improvements in machinery or apparatus for folding, 'fenting,' and making up goods or fabrics."—Dated 28th January, 1856.

254. John Lee Stevens, of the city of London, Civil Engineer, for an invention of "Improvements in doors or apparatus for regulating the supply of air to steam-boiler and other flues and furnaces."—Dated 30th January, 1856.

25th January.

236. Daniel Foxwell, of Manchester, in the county of Lancaster, Card Manufacturer, for an invention of "Improvements in sewing-machines." Dated 29th January, 1856.

26th January.

269. Thomas Hurst, of Tanner Street, Barking, in the county of Essex, Railway Contractor, for an invention of "Improvements in the connecting of the rails or 'metals' generally used on railways." —Dated 31st January, 1856.

FOREIGN PATENTS.



BAVARIA.*

List of Patents for Inventions Delivered during the year 1858.†

(*Communicated by the Bavarian Government.*)

(For preceding List, see No. 424 of this Journal.)

1. Friedrich Michaelis, of Magdeburg, for "Adding unpoisonous compounds of chlorine to beetroot juice, before, during, or after its separation."—Dated 1st January, 1858; expiring 7th September, 1859.

* For the Patent Law of Bavaria, see No. 262 of this Journal.

† The Specifications of expired Patents may be consulted in the Public Free Library of the Great Seal Patent Office, where translations may also be had.

2. Joh. Heim and Jos. Birlbauer, of Nuremberg, for "Machines for spinning cigars by inserting tobacco therein."—Dated 7th January, 1858; expiring 7th January, 1868.

3. Evan Leigh, of Manchester, for "Improvements in apparatus of machines for spinning cotton."—Dated 7th January, 1858; expiring 7th January, 1860.

4. Arbel Lucien Deflassieux, of Rive de Giers' France, for "Manufacture of wheels for railway carriages."—Dated 2nd February, 1858; expiring 2nd February, 1859.

5. François and Eloi Schmitz, of Paris, for "Machines for pressing and conglomerating peat."—Dated 12th February, 1858; expiring 12th February, 1860.

6. J. H. Prillwitz, of Berlin, for "Improvements in the manufacture of seamless leather articles."—Dated 14th February, 1858; expiring 14th February, 1862.

7. Rudolph Bodmer, of London, for "Improvements in safety-valves of steam-engines."—Dated 14th February, 1858; expiring 14th February, 1860.

8. Léon Joseph Tomme, of Paris, for "A grease-box for lubricating axles of railway carriages."—Dated 28th February, 1858; expiring 28th February, 1860.

9. Martin Steinhauser, of Waldsee, Wurtemburg, for "A peculiar construction of kilns for carbonizing bones."—Dated 4th March, 1858; expiring 4th March, 1863.

10. E. H, Gummi, of Munich, for "A composition being a substitute for court-plaister."—Dated 20th March, 1858; expiring 20th March, 1859.

11. Jean Schlumberger, of Guebwiller, France, for "Improvements in the construction of machines for undoing, combing, and stretching wool, cotton, and other fibrous substances."—Dated 26th March, 1858; expiring 26th March, 1863.

12. François Schmidt, of Paris, for "A new system of hydraulic presses."—Dated 31st March, 1858; expiring 31st March, 1860.

13. Eugen Grenet and Alexis Navin, of Paris, for "A new construction of electrical batteries."—Dated 31st March, 1858; expiring 31st March, 1860.

14. Anton Hahn, of Munich, for "Closets which are cleared and closed by themselves, and which do not admit of any draught."—Dated 12th April, 1858; expiring 12th April, 1860.

15. James Edward Earnshaw, of Nuremburg, for "Rotary steam-engines."—Dated 15th April, 1858; expiring 18th April, 1863.

16. Dr. Baron von Liebig, of Munich, for "Manufacture of galvanized silver mirrors."—Dated 20th April, 1858; expiring 20th April, 1860.

17. Wilhelm Heinrich Christ. Voss, of Augsburg, for "Reaction water-wheels."—Dated 8th May, 1858; expiring 8th May, 1863.

18. Joseph Schloer, of Hallziechen, for "Utilizing the gases issued from the mouth of furnaces by re-introducing them in the blast pipe of furnaces."—Dated 8th May, 1858; expiring 8th May, 1868.

19. W. Terreaux, of Paris, for "A system of valves for pumps and other purposes."—Dated 28th May, 1858; expiring 28th May, 1859.

20. Johann Timpe, of Rheine, Westphalia, for "A mangle."—Dated 3rd July, 1858; expiring 3rd January, 1863.

21. Gottfried Niedermaier and Conrad Oberreit, both of Lindau, for "A kneading machine."—Dated 2nd July, 1858; expiring 2nd July, 1863.

22. Karl Bulow, of Görlitz, for "A gas meter."—Dated 17th July, 1858; expiring 17th January, 1863.

23. Benjamin Tilgmann, of Philadelphia, for "Means of hardening greasy and oily substances."—Dated 31st July, 1858; expiring 31st July, 1860.

24. Johann Quirin, of Mittelbexbach, for "A forge."—Dated 31st July, 1858; expiring 31st July, 1861.

25, Joseph Kielinger, of Munich, for "A process for printing linen with encaustic colours."—Dated 4th August, 1858; expiring 4th August, 1859.

26. E. Ekmann, of Stuttgart, for "A sawing mill with vertical saws."—Dated 15th August, 1858; expiring 15th August, 1864.

27. D. H. Ziegler, of Winterthur, for "Self-acting lubricating apparatus."—Dated 31st August, 1858; expiring 31st August, 1860.

28. Philipp Herrmann, of Offenburg, for "An apparatus for lubricating railway carriages and transmission machinery."—Dated 1st November, 1858; expiring 1st May, 1863.

29. Charles Felix Sebille, of Nantes, for "Manufacture of pipes which are tinned inside."—Dated 5th November, 1858; expiring 5th November, 1860.

30. Benjamin Madoult de Buffon, of Paris, for "Filtering tubes, improvements in filtering processes, and cleaning apparatus."—Dated 5th November, 1858; expiring 5th November, 1860.

31. Thoas' Paper-Mills, of Hainsberg, near Dresden, for "Grinding fibrous substances for the manufacture of paper."—Dated 5th November, 1858; expiring 5th May, 1863.

32. J. A. Gantenbein, of Augsburg, for "A bolting apparatus for mills."—Dated 7th November, 1858; expiring 7th November, 1861.

33. J. J. Huber, of Geneva, for "Jewellery articles with moveable parts."—Dated 13th November, 1858; expiring 13th November, 1861.

34. Georg Kolb, of Bayreuth, for "A peculiar method of boring mountains by means of wire cables."—Dated 23rd November, 1858; expired 23rd November, 1862.

35. John and Ezra Harthan, of Timbersbruck, Chester, for "Obtaining motive-power by means of machines worked by steam or compressed air."—Dated 29th November, 1858; expired 29th November, 1861.

36. Heinrich Honegger, of Ruti, Switzerland, for "Pinchers for stretching fabrics in weaving."—Dated 31st December, 1858; expiring 31st December, 1859.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1858.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

5061. Thuillier and Staudinger, of 74, Rue de Bondy, Paris, a Certificate of Addition to their Patent of 9th November, 1857, for "A copying press."—Dated 9th November, 1858.

5062. Denis Marassich, of 24, Boulevart de Strasbourg, Paris, for "A turbine apparatus for evaporating perfumes." — Dated 9th November, 1858. — (English Patent, expiring 29th May, 1872.)

5063. François Delsarte, of 3 bis, Rue de la Croix Boissière, Chaillot, for "A phonoptical apparatus for tuning pianos with mathematical precision."—Dated 9th November, 1858.

5064. Thomas Guinier, of 23, Rue de Grenelle St. Honoré, Paris, a Certificate of Addition to his Patent of 17th May, 1858, for "Improvements in all kinds of taps, &c."—Dated 9th November, 1858.

5065. Ferdinand Carré, domiciled with Jacquemart, of 10, Rue St. Anasthase, Paris, a Certificate of Addition to his Patent of 23rd June, 1857, for "An apparatus for manufacturing ice."—Dated 9th November, 1858.

5066. Philippe Nicolas Cordier, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Ruling lithographic works." —Dated 9th November, 1858.

5067. Jérôme Jean Baptiste Adolphe Pichault, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of making good broken axles of carriages and vehicles in general." —Dated 9th November, 1858.

5068. René Charles Videgrain, of 17, Rue des Batignollaises, Batignolles, for "Flint-stone pipes." —Dated 10th November, 1858.

5069. René Charles Videgrain, of 17, Rue des Batignollaises, Batignolles, for "Waterproof inlaid floors."—Dated 10th November, 1858.

5070. Félix Génevois, of 48, Rue de l'Orillon, Belleville, for "A kind of soap."— ated 10th November, 1858.

5071. François Malbet, of 3, Rue Constantine, Paris, for "A basin for invalids."—Dated 10th November, 1858.

5072. Etienne Brocard, of 26, Rue de la Roquette, Paris, for "Copper and brass copper casings without soldering for making cylinders for printing stuffs." — Dated 10th November, 1858.

5073. Edouard Aristide Servier, of 16, Rue Mazagran, Paris, for "An electro-magnetic apparatus for ascertaining the highest and lowest pressure or level." — Dated 10th November, 1858.

5074. Charles François Lepage, of 24, Avenue de Chichy, Batignolles, for "Spring fastenings for windows, doors, &c."—Dated 10th November, 1858.

5075. Adolphe Bonvallet, of 98, Rue du Château d'Eau, Paris, a Certificate of Addition to his Patent of 9th April, 1856, for "A mode of printing long-stapled tissues, &c."—Dated 10th November, 1858.

5076. Preston and McGregor, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for making files."— Dated 10th November, 1858.— (English Patent, expiring 15th April, 1862.)

5077. Henry Wilde, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in lightning rods." — Dated 10th November, 1858.

5078. Jean Villeneuve, represented by Mathieu of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 17th November, 1856, for "Improvements in the manufacture of hair bags for pressing fat substances."—Dated 10th November, 1858.

5079. John Sivéet Wilway, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Arrangements in bells."—Dated 10th November, 1858.

5080. Louis Auguste Mielle, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of advertizing boards."—Dated 10th November, 1858.

5081. Joseph Petit-Aubry, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for unskidding carriages."—Dated 10th November, 1858.

5082. Tanvier, of 43, Rue du Temple, Paris, for "A sowing and planting apparatus."—Dated 11th November, 1858.

5083. Joseph Louis Gaudebert, of 130 and 132, Rue St. Martin, Paris, for "Foot coverings with invisible metallic seams."—Dated 11th November, 1858.

5084. Pierre Eugène Duchassaing, represented by Brade, of 22, Rue Ste. Anne, Paris, a Certificate of Addition to his Patent of 26th April, 1858, for "An apparatus for carrying about candle-lights."— Dated 11th November, 1858.

5085. Droinet and Maldant, of St. Denis, a Certificate of Addition to their Patent of 19th

* For the French Patent Law see No. 228 of this Journal.

April, 1858, for "A system of metallic mountings." —Dated 11th November, 1858.

5086. Victor Legrip, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 13th November, 1855, for "Utilizing the scoria of iron."—Dated 11th November, 1858.

5087. Antoine Joseph Décret, of 15, Rue du Pressoir, Belleville, for "A kind of soles."—Dated 11th November, 1858.

5088. De Cappot and Jarriant, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "An hydraulic counter."—Dated 11th November, 1858.

5089. Chadwick and Frost, represented by Perpigna, of 42, Rue Neuve, St. Augustin, Paris, a Certificate of Addition to their Patent of 22nd September, 1857, for "Apparatus for gauging or measuring water, &c."—Dated 11th November, 1858.

5090. Robert Jobson, represented by Basset, of 14, Boulevart Montmartre, Paris, for "Improvements in apparatus for making moulds for casting shells and other articles."— Dated 11th November, 1858.—(English Patent, expiring 12th August, 1872.)

5091. Pierre Dietens, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of letter paper, bills, circulars, and other notes."—Dated 11th November, 1858.

5092. Charles Christien Schlodauer, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A mode of imitating diamonds and precious stones on paper, stuffs, &c."—Dated 11th November, 1858.

5093. Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 8th September, 1858, for "Purifying phosphate of natural lime."—Dated 11th November, 1858.

5094. Robert Newman, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A brush for cleaning tubes of boilers."—Dated 11th November, 1858.

5095. Louis Jean Anselme Ernest Trotry-Latouche, of 5, Rue des Quartre Fils, Paris, for "Means of fulling hats of wool and hair, &c."—Dated 12th November, 1858.

5096. Vincent Marie Arthur Migeot de Baran, of 95, Rue du Théâtre, Grenelle, for "A kind of syphon."—Dated 12th November, 1858.

5097. Paul Auguste Amédée Trouttet, domiciled with Jolicler, of 2, Rue de l'Ecole de Médicine, Paris, for "A calorifere-stove for heating carriages."—Dated 12th November, 1858.

5098. Henry Louis Marie, of 10, Rue St. Ferdinand aux Thernes, for "A system of conveying loaded boats from one place to another."—Dated 12th November, 1858.

5099. Alphonse Gravier, domiciled with Armengaud, of 23, Boulevart de Strasbourg, Paris, for "A so-called 'hydro-motive wheel.'"—Dated 12th November, 1858.

5100. Frédéric Greffier, of 2, Rue des Bassins, Passy, for "A system and apparatus for conveying substances which may be mixed with water or any other liquid, at great distances."—Dated 12th November, 1858.

5101. François Jacques Michel Guillemard, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 13th August, 1857, for "Travelling-bags, &c."—Dated 12th November, 1858.

5102. Alfred Isidore Parent, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for manufacturing all kinds of capsules, and embossed and stamped articles."—Dated 12th November, 1858.

5103. François Gigon, of Bâlot, département de la Cote d'Or, for "Substituting wrought iron for cast iron in the manufacture of the chief parts of the American plough."—Dated 15th November, 1858.

5104. Eugène Jean Voisin, of de Maiziers, département du Cher, for "Obtaining jointed mouldings on hard finished surfaces."—Dated 17th November, 1858.

5105. Jean Isidore Duguay, of Argenteuil, département de Seine et Oise, for "A chaff-cutting machine."—Dated 17th November, 1858.

5106. Charles Placide Nézeraux, of Matha, département de la Charente Inférieure, for "Improvements in flour-mills."—Dated 17th November, 1858.

5107. Aléxandre de Chabrière, of 134, Boulevart Longchamps, Marseille, département des Bouches du Rhône, for "A system of lamps."—Dated 18th November, 1858.

5108. Jean Bernard, of 2, Rue Porte-Royale à la Rochelle, département de la Charente Inférieure, for "A composition, called 'Corallis stone,' for restoring edge-tools." — Dated 18th November, 1858.

5109. Dromart and Dussillol, of Préchac, département de la Gironde, a Certificate of Addition to their Patent of 6th July, 1858, for "A process for distilling and clarifying resinous substances." —Dated 19th November, 1858.

5110. Michel Locqueneux, of 6, Rue Comtesse, Valencienne, département du Nord, for "A continuous smoke-consuming process."—Dated 20th November, 1858.

5111. Langenhagen and Hepp, of Saint Union, département du Bas Rhin, for "Manufacture of bonnets from palm leaves, panama, and plaited straw."—Dated 10th November, 1858.

5112. Théophile Grison, of Deville-les-Rouen, département de la Seine Inférieure, for "A float for lightening vessels."—Dated 17th November, 1858.

5113. Jules Louis Ganne, of Cour Cheverny, département de Loir et Cher, a Certificate of Addition to his Patent of 24th April, 1858, for "A system of thrashing machines."—Dated 19th November, 1858.

5114. Antoine Richard, of 20, Rue de Bourbon, Lyon, département du Rhône, for "A bath that may be folded up"—Dated 19th November, 1858.

5115. Jacques Schumacher, of 56, Rue de Chabrol, Lyon, département du Rhône, for "Plain and cut glasses for watches and clocks."—Dated 20th November, 1858.

5116. Million, of 31, Quai de la Charité, Lyon, département du Rhône, a Certificate of Addition

to their Patent of 4th November, 1858, for "Improvements in motive machines worked by gas, &c."—Dated 20th November, 1858.

5117. Antoine Bonnard, of 31, Place de la Charité, Lyon, département du Rhône for "A grease box."—Dated 20th November, 1858.

5118. Henri Billan, of 41, Rue St. James, Bordeaux, département de la Gironde, for "An apparatus for lighting cigars or pipes in the open air."—Dated 20th November, 1858.

5119. François Maillard, of 4, Rue St. Dominique, Lyon, département du Rhône, for "A railway break acting on the rails and wheels."—Dated 17th November, 1858.

5120. Edouard Fairburn, represented by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, for "Improvements in machines or or apparatus for carding wool and other fibrous substances."—Dated 17th November, 1858.

5121. Claude Cavarac, of 1, Quai St. Antoine, Lyon, département du Rhône, for "Tools for manufacturing bezils of jewellery in general."—Dated 18th November, 1858.

5122. Jean François Cordel, of 7, Rue Ferrandière, Lyon, département du Rhône, for "A machine for beating and carding wool and other substances, and being applicable to corn threshing."—Dated 18th November, 1858.

5123. Pierre Remy Nepreux-Hortet, of 33, Rue Coquebert, Reims, département de la Marne, a Certificate of Addition to his Patent of 19th November, 1857, for "A machine for piercing bottle stands."—Dated 19th November, 1858.

5124. Louis Nicolas Thiré, of Houdainville, département de l'Oise, a Certificate of Addition to his Patent of 5th May, 1858, for "A thrashing machine."—Dated 18th November, 1858.

5125. Bertrand and Pédouin, of Salon, département des Bouches du Rhône, a Certificate of Addition to thier Patent of 2nd June, 1858, for "A machine for expanding wooden smoking pipes, &c."—Dated 19th November, 1858.

5126. André and Rivat, of Pontcherra, département de l'Isère, a Certificate of Addition to their Patent of 29th October, 1857, for "A furnace for smelting steel."—Dated 19th November, 1858.

5127. Aléxandre Jacob Herché, of Louvier, département de l'Eure, a Certificate of Addition to his Patent of 18th September, 1858, for "A machine for thrashing corn and other grain."—Dated 20th November, 1858.

5128. Paul Eugène Alexis Lapierre, of 41, Rue de Dieu-Lumière, Reims, département de la Marne, a Certificate of Addition to his Patent of 28th November, 1857, for "A machine for boring timber for buildings and cartwright's work."—Dated 20th November, 1858.

5129. Joseph Toussaint Caussemille, of 12, Boulevart de la Gare, Marseille, département des Bouches du Rhône, for "Goffering so-called 'slide match-boxes.'"—Dated 20th November, 1858.

5130. Jules Marque-Morel, of 11, Rue des Lingers, Abbeville, département de la Somme, for "An application to burners of oil-lamps."—Dated 20th November, 1858.

5131. Louis Girard, of Pertuis, département de la Vaucluse, for "An apparatus for crushing almonds."—Dated 22nd November, 1858.

5132. Mathieu Castay, of Vic-Fezensac, département du Gers, for "Construction of metal bridges and apparatus for constructing the same."—Dated 22nd November, 1858.

5133. Adrien Perret, of Firminy, département de la Loire, for "Applying the theory of logarithms to the construction of a circular calculating machine, called 'calculating disk.'"—Dated 22nd November, 1858.

5134. Jean Baptiste Loraux, of Muternes, commune de Wimy, département de l'Aisne, for "Manufacture of fronts of pottery for aqueducts."—Dated 24th November, 1858.

5135. René Creuzé des Roches, of Grand Maison, commune d'Ingrandes, département de l'Indre, a Certificate of Addition to his Patent of 20th November, 1856, for "A moveable horsegin."—Dated 18th November, 1858.

5136. Vincent-Viry and Gegout, of Gerardmer, département des Vosges, for "Machines for the manufacture of wooden boxes and laths for paperworks and ceilings."—Dated 20th November, 1858.

5137. Agricol Aurouze, of 116, Rue Carreterie, Avignon, département de la Vaucluse, for "An horizontal water-wheel, worked sideways."—Dated 23rd November, 1858.

5138. Philibert Clunet, of 55, Quai de Serin, Lyon, département du Rhône, for "A travelling case."—Dated 23rd November, 1858.

5139. Charles Auguste Kœhler, of Bitschwiller, département du Haut Rhin, for "Improvements in flyers of bobbin-frames."—Dated 23rd November, 1858.

5140. Auguste Eugène Fiéret, of Place du Marché au Blé, Epernay, département de la Marne, for "A system of stoppering bottles containing gaseous liquids."—Dated 23rd November, 1858.

5141. Bernard Joachim La Mothe, of 78, Cours de Tourny, Bordeaux, département de la Gironde, for "Construction of chairs and arm-chairs."—Dated 24th November, 1858.

5142. Auger and Cretin, of 34, Rue Sala, département du Rhône, for "A closed gas motor."—Dated 25th November, 1858.

5143. Lanfrey and Brun, of 10, Place Napoléon département du Rhône, for "A machine for combing and carding flock-silk or waste of cocoons."—Dated 25th November, 1858.

5144. Charles De Vendeuvre, of 15, Rue Crebillon, Nantes, département de la Loire Inférieure, for "Kilns for drying and baking ceramic products."—Dated 25th November, 1858.

5145. Batley, Greenwood, and Dockray, represented by Robert Burk, of 4, Rue Nigrier, Lille, département du Nord, for "Improvements in carding filamentous substances."—Dated 25th November, 1858.—(English Patent, expiring 8th October, 1872.)

5146. Georges Tabourin, of 20, Rue Constantine, Lyon, département du Rhône, a Certificate of Addition to his Patent of 21st October, 1858, for "A system of telegraphs."—Dated 24th November, 1858.

5147. Gabriel Emile Charageat, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 8th February, 1854, for "Improvements in the construction of parasols, &c."—Dated 12th November, 1858.

5148. Pierre Carmien, of 24, Rue des Marais, St. Martin, Paris, for "A system of telegraphic printing."—Dated 13th November, 1858.

5149. Hunt and Pochin, represented by Creuseton, of 12, Rue Godot de Mauroi, Paris, for "Improvements in treating and applying resin and resinous substances."—Dated 13th November, 1858.

5150. Talma and Noël, represented by Tardieu, of 13, Rue de Tournon, Paris, for "A process for smelting aluminium and applying the same."—Dated 13th November, 1858.

5151. Aléxandre Cochet, of 177, Rue de Charenton, Paris, a Certificate of Addition to his Patent of 1st May, 1858, for "A guano extract."—Dated 13th November, 1858.

5152. Christian Jean Nathan Leidenroth, of 38, Rue de Charonne, Paris, for "A system of extending or folding furniture."—Dated 13th November, 1858.

5153. Jean Marie Laffas, of 36, Rue de la Paix, Batignolles, a Certificate of Addition to his Patent of 3rd March, 1858, for "A water-meter."—Dated 13th November, 1858.

5154. Léonard Mathieu, of 1, Place de la Rotunde, Paris, for "A process for modifying substances."—Dated 13th November, 1858.

5155. François Coignet, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 29th March, 1855, for "Manufacture of economical beton without hydraulic lime."—Dated 13th November, 1858.

5156. Antoine Roux-Mollard, of 8, Rue Martel, Paris, a Certificate of Addition to his Patent of 30th March, 1858, for "Printing gold and silver colours."—Dated 13th November, 1858.

5157. Aîmé Van-Langenhove, of 29, Rue de Londres, Paris, a Certificate of Addition to his Patent of 8th January, 1858, for "Manure."—Dated 13th November, 1858.

5158. Auguste Mathieu, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A machine for burling stuffs."—Dated 13th November, 1858.

5159. Charles Husson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 15th December, 1857, for "Improvements in the manufacture of transparent tissues, &c."—Dated 13th November, 1858.

5160. Jacques Henry Beaud, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A motor applicable to all kinds of vehicles."—Dated 13th November, 1858.

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5162. Jules Félix Gevelot, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for the manufacture of cartridges."—Dated 13th November, 1858.

5163. Jules Cumming, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of horse-gins."—Dated 13th November, 1858.

5164. Jean Marie Auguste Eugène Fabart, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 16th November, 1857, for "Manufacture of tissues."—Dated 13th November, 1858.

5165. Julien Briere, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of breaks."—Dated 13th November, 1858.

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5168. Snéguireff and Piatoff, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Processes for coppering, silvering, and gilding cast and wrought iron and steel."—Dated 13th November, 1858.

5169. Cordonnier and Bouchet, of 7, Impasse St. Bernard, Faubourg St. Antoine, Paris, for "An apparatus for cleaning salsifics."—Dated 13th November, 1858.

5170. Parent and Hamet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 13th March, 1858, for "A kind of buttons."—Dated 13th November, 1858.

5171. Jacques Edouard Godeau, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Jointed cushions with backs for travellers."—Dated 13th November, 1858.

5172. Joseph Constant Boisneau, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A moveable horse gin."—Dated 13th November, 1858.

5173. Pierre Jacques Eugène Jassenne, domiciled with Jassenne, of 46, Rue des Jeuneurs, Paris, a Certificate of Addition to his Patent of 20th May, 1857, for "A turbine worked by air or water."—Dated 15th November, 1858.

5174. François Jacques Lecocq, of 25, Rue des Vinaigriers, Paris, for "Manufacture of drawn rods."—Dated 15th November, 1858.

5175. Ferdinand Pierre Jean Vanden Ouwelant, of 84, Rue de Richelieu, Paris, for "A smoke-consuming apparatus."—Dated 15th November, 1858.

5176. Louis Pierre Aléxandre Martin (de Provins), of 79, Rue des Marais St. Martin, Paris, a Certificate of Addition to his Patent of 20th November, 1857, for "Improvements in keyboard instruments and especially in expressive organs."—Dated 15th November, 1858.

Erratum in Journal of 21st January.

55. For "burner regulator" read "burners regulator."

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Electricity and Magnetism: their Generation and Applications.
Typographic, Lithographic, and Plate Printing.
Bleaching, Dyeing, and Printing Yarns and Fabrics.
Preparation of Fuel, and Apparatus for its Combustion.
Manufacture and Applications of India Rubber, Gutta Percha, &c.; including Air, Fire, and Water Proofing.
Production and Applications of Gas.
Steam Engines.

B. Woodcroft.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 530. TUESDAY, FEBRUARY 1, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given that

2126. THEODORE BYRON HUBBELL, of Regent Street, in the city of Westminster, Gentleman, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improvement in hooped petticoats."—A communication.

2127. And JOHN HOPE, of the state of Rhode Island, of the United States of America, has given the like notice in respect of the invention of "An improved calico printing roller."

2129. And THOMAS HOWE, of Millwall, Poplar, has given the like notice in respect of the invention of "Improvements in smiths forges."

As set forth in their respective petitions, all recorded in the said office on the 22nd day of September, 1858.

2140. And DANIEL GRANT, of Ludgate Hill, in the city of London, Printer, has given the like notice in respect of the invention of "Improvements in colour-printing presses."

As set forth in his petition, recorded in the said office on the 23rd day of September, 1858.

2146. And HENRY HENSON HENSON and WILLIAM FREDERICK HENSON, both of 38, Parliament Street, in the city of Westminster, have given the like notice in respect of the invention of "Improvements in waterproofing leather woven fabrics, fibrous, and other materials, and also of rendering them fire-proof, or partially fire-proof."

2147. And RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the city of London, has given the like notice in respect of the invention of "An improved apparatus for preventing explosion in steam boilers."—A communication.

2150. And GEORGE LEEDHAM FULLER, of Lombard Street, in the city of London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in steam engines."

As set forth in their respective petitions, all recorded in the said office on the 24th day of September, 1858.

2161. And WILLIAM LANDER, of the city of Bristol, Engraver, has given the like notice in respect of the invention of "Improvements in engraving and printing for the purpose of ornamenting china and earthenware."

As set forth in his petition, recorded in the said office on the 27th day of September, 1858.

2164. And EDWIN LEWTHWAITE, of Halifax, in the county of York, Clock and Watch Maker, and GEORGE AMBLER, of Queenshead, near Halifax aforesaid, Clock and Watch Maker, have given the like notice in respect of the invention of "Improvements in clocks, watches, chronometers, and other timepieces."

2165. And BENJAMIN JONES, Iron Founder, of the city of York, has given the like notice in respect of the invention of "Improvements in press wheel rollers or clod crushers, which improvements are also applicable to rollers for crushing, bruizing, and pulverizing roots and other substances."

As set forth in their respective petitions, both recorded in the said office on the 28th day of September, 1858.

2172. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in apparatus for and in the manufacture of paper bags and other similar articles."—A communication.

As set forth in his petition, recorded in the said office on the 29th day of September, 1858.

2203. And LOUIS A. NORMANDY, junior, of 67, Judd Street, London, in the county of Middlesex, has given the like notice in respect of the inven-

tion of "Improvements in the manufacture of sulphate of copper."—A communication.

As set forth in his petition, recorded in the said office on the 4th day of October, 1858.

2206. And James Mills, of Manchester, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for roving, slubbing, or spinning cotton and other fibrous materials."

2209. And William Menelaus, of Dowlais Iron Works, in the county of Glamorgan, Manager, has given the like notice in respect of the invention of "Improvements in machinery for straightening rails and wrought iron bars."

As set forth in their respective petitions, both recorded in the said office on the 5th day of October, 1858.

2241. And William Augustus Munn, of Throwley House, near Faversham, in the county of Kent (late a Major in the East Kent Regiment Militia), a Deputy Lieutenant and Justice of the Peace for the said county of Kent, has given the like notice in respect of the invention of "Improvements in horse-hoes."

2245. And Joseph Travers Smith, of Gray's Inn, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in electric cables."

2246. And Evan Birchley, of Upper Severn Terrace, in the city of Worcester, Attorney's Clerk, has given the like notice in respect of the invention of "An improved construction of cartridge."

As set forth in their respective petitions, all recorded in the said office on the 8th day of October, 1858.

2270. And Leonard Wray, of No. 5, Devonshire Street, Portland Place, London, Gentleman, has given the like notice in respect of the invention of "New and improved compounds for the coating or insulating of submarine electric telegraph wires, and which are also applicable to the coating or insulating of electric telegraph wires laid underground."

2271. And Thomas Cotterill Shaw, of Hanley, in the county of Stafford, Architect and Surveyor, and Frederic Henshaw Cooper, of Hanley aforesaid, Ironmonger, have given the like notice in respect of the invention of "A new or improved construction and mode of working engines by the agency of air or gases in conjunction with electricity, for obtaining or producing motive power."

As set forth in their respective petitions, both recorded in the said office on the 12th day of October, 1858.

2287. And Lambert Cowell, of Adelphi, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in apparel affording the means for preserving life at sea, and to prevent accidents to persons casually immersed in water."

2289. And Alexander Gordon, Member of the Institution of Civil Engineers in London, and residing at Little Fifehouse, Whitehall, in the city of Westminster, has given the like notice in respect of the invention of "Improvements for manufacturing cast iron steel and wrought iron."

—A communication from Antoine Galy Cazalat, of Paris.

As set forth in their respective petitions, both recorded in the said office on the 14th day of October, 1858.

2301. And William Bacon, of Prestwich, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in the mode of constructing valves, valve cocks, gates and stop cocks, which may be used in steam engineering, and for other purposes."—A communication from J. R. and H. S. Robinson, of Clinton, in the United States of America.

As set forth in his petition, recorded in the said office on the 15th day of October, 1858.

2343. And Robert Griffiths, of No. 69, Mornington Road, Regent's Park, London, Engineer, has given the like notice in respect of the invention of "Improvements in baths."

As set forth in his petition, recorded in the said office on the 20th day of October, 1858.

2351. And James Murdoch Napier, of York Road, Lambeth, Engineer, has given the like notice in respect of the invention of "Improvements in printing presses and printing machines."

As set forth in his petition, recorded in the said office on the 21st day of October, 1858.

2382. And Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improvement in the manufacture of candles."—A communication.

As set forth in his petition, recorded in the said office on the 25th day of October, 1858.

2479. And Robert Eardley Pinhey, of Woolstan, in the county of Hampshire, and John Wood, of No. 58, High Street, Southampton, in the town and county of Southampton, Hampshire, have given the like notice in respect of the invention of "Improvements in apparatus for ascertaining the variation of ships compasses for local errors."

As set forth in their petition, recorded in the said office on the 5th day of November, 1858.

2613. And George Howe, Engineer, and John Norton, Plumber, both of Sheffield, in the county of York, have given the like notice in respect of the invention of "An improved method of boiling water or worts for brewery's, distillery's, &c., by steam, or for heating rooms, public buildings, churches, chapels, factories, &c."

2627. And Arthur James Thorman, of No. 8, Lime Street, in the city of London, Ship Agent, has given the like notice in respect of the invention of "Improvements in chain cables and chains."

As set forth in their respective petitions, both recorded in the said office on the 19th day of November, 1858.

2671. And Charles Edwards Amos, of the Grove, in the borough of Southwark, Engineer, has given the like notice in respect of the invention of "Improved apparatus for raising and supporting ships or vessels while undergoing repair,

which apparatus is also applicable for facilitating the passage of ships or vessels over bars, sand-banks, or in shallow waters."

As set forth in his petition, recorded in the said office on the 25th day of November, 1858.

2687. And MICHAEL MEYERS, of No. 9, Great Alie Street, Goodman's Fields, London, Umbrella and Parasol Manufacturer, has given the like notice in respect of the invention of "Improvements in parasols."

As set forth in his petition, recorded in the said office on the 26th day of November, 1858.

2746. And GEORGE WILLIAM BALES, of Ipswich, in the county of Suffolk, Gun Maker, has given the like notice in respect of the invention of "Improvements in apparatus for retaining doors, sashes, or frames, when shut or closed."

As set forth in his petition, recorded in the said office on the 1st day of December, 1858.

2856. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of cranked axles and shafts."—A communication from Messieurs Russery, Lacombe, and Co., residing at Rive de Gier, France.

As set forth in his petition, recorded in the said office on the 13th day of December, 1858.

2931. And JOSEPH JAMES WELCH, of 17, Cheapside, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of neck-ties, scarfs, or cravats."

As set forth in his petition, recorded in the said office on the 22nd day of December, 1858.

28. And EDMUND BALCHIN, of Myton Gate, Hull, in the county of York, Gun Maker, has given the like notice in respect of the invention of "An improved construction of projectile, applicable to the whale fishery."

As set forth in his petition, recorded in the said office on the 3rd day of January, 1859.

52. And ISAAC HOLDEN, of St. Denis, near Paris, in the empire of France, and ANGUS HOLDEN, of Bradford, in the county of York, have given the like notice in respect of the invention of "Improvements in means or apparatus employed in preparing and combing wool and other fibres."

53. And EDWIN HEYWOOD, of Halifax, in the county of York, has given the like notice in respect of the invention of "Improvements in weaving."

56. And ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in electric and magnetic telegraphs."

As set forth in their respective petitions, all recorded in the said office on the 7th day of January, 1859.

77. And JOHN WHITE, of Finchley, in the county of Middlesex, Surgeon, has given the like notice in respect of the invention of "Improvements in cleansing or purifying air, and in increasing or reducing the temperature thereof, and in the application of air so treated to sanitary and other uses."

As set forth in his petition, recorded in the said office on the 10th day of January, 1859.

93. And JOHN THOMSON, of Dundee, in the county of Forfar, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of rugs."

94. And JOSEPH HANDS, of Elgin Crescent, Notting Hill, in the county of Middlesex, Surgeon, has given the like notice in respect of the invention of "Improvements in preserving or preparing skins intended to be converted into leather, or otherwise manufactured."

As set forth in their respective petitions, both recorded in the said office on the 12th day of January, 1859.

105. And RICHARD ASTON LIGHTOLLER, of Chorley, in the county of Lancaster, Cotton Spinner, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for spinning cotton or other fibrous materials."

113. And JAMES JOHN STEVENS, of Darlington Works, Southwark, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in railway signal apparatuses."

115. And JOHN GRIST, of Beazley Crescent, Old Ford, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for cutting and shaping staves and heads for casks, and for the manufacture of casks."

As set forth in their respective petitions, all recorded in the said office on the 13th day of January, 1859.

124. And WILLIAM CRAFT, of 12, Cambridge Road, Hammersmith, and THOMAS WILSON, of Bradmore House, Chiswick, both in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in drawers and napkins so as to render the same waterproof."

126. And JOHN DAUGLISH, of Tunbridge Wells, M.D., has given the like notice in respect of the invention of "Improvements in obtaining carbonic acid gas."

127. And ROBERT ROMAINE, of Chapel Street, Bedford Row, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improved arrangement of portable railway."

As set forth in their respective petitions, all recorded in the said office on the 14th day of January, 1859.

137. And JAMES MONTGOMERY, of the city of New York, in the United States of America, has given the like notice in respect of the invention of "Improvements in the construction of the hulls of steam and other vessels, and in the feed-water heaters, boilers, water-gauges, condensers, engines, and propelling machinery appertaining to the former, a portion of which improvements (with the exception of those on the hull), are applicable to analogous useful purposes."

As set forth in his petition, recorded in the said office on the 17th day of January, 1859.

And notice is hereby further given, that all persons, having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

1st February, 1859.

1744. Joseph William Schlesinger, of Red Grove House, South Lambeth, in the county of Surrey, Gentleman, for an invention of "A new or improved machine for roasting and basting articles of food."—A communication from a Foreigner residing abroad.—Dated 2nd August, 1858.

1747. Stephen Hine, of Macclesfield, in the county of Chester, Silk Manufacturer, for an invention of "Certain improvements in machinery or apparatus for twisting, doubling, and re-twisting, and winding silk or other similar fibrous material."—Dated 2nd August, 1858.

1766. Charles Callebaut, Merchant, of 2, Rue Ste. Appoline, Paris, in the empire of France, and of 45, Essex Street, Strand, London, for an invention of "Improvements in sewing machines."—Dated 4th August, 1858.

1779. Joze Luis, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "A machine for drilling and grooving the naves of wheels, and also to force the axle box into the naves."—A communication from a Foreigner residing abroad.—Dated 5th August, 1858.

1785. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in knitting frames."—A communication from M. Ulysse Puech, of Paris, a Foreigner residing abroad.—Dated 5th August, 1858.

1794. Stephen Carey, of Clink Street Wharf, Bankside, Southwark, in the county of Surrey, Builder and Contractor, for an invention of "An improved system of forming the permanent way of railroad transit, also common tramway and channel or watercourse by the means of cast iron plates or boxes peculiarly constructed so as to make one continuous way or channel."—Dated 6th August, 1858.

1795. George Weston, of No. 6, Pond Hill, Sheffield, in the county of York, for an invention of "A washing machine."—Dated 7th August, 1858.

1820. Robert Hanham Collyer, M.D. and C.E., of No. 3, Park Road, Regent's Park, county of Middlesex, for an invention of "An improved coating composition to protect vessels from marine, animal, and vegetable substances."—Dated 10th August, 1858.

1837. James Fogg, of Great Lever, near Bolton, in the county of Lancaster, Book Keeper, for an invention of "Improvements in pressure gauges."—Dated 12th August, 1858.

1893. Francis Preston, of the city of Manchester, Mechanical Engineer, and William McGregor, of the same place, Mechanic, for an invention of "Improvements in machinery for cutting files."—Dated 20th August, 1858.

1924. John Macintosh, of North Bank, Regent's Park, in the county of Middlesex, for an invention of "Improvements in insulating telegraphic wires or conductors, and in apparatus employed therein, part of which apparatus is applicable to the manufacture of tubes from india rubber."—Dated 24th August, 1858.

2037. Alexander McEwan Peters, of Edinburgh, in the county of Mid-Lothian, North Britain, Plumber, for an invention of "Improvements in apparatus for regulating the flow or passage of fluids."—Dated 8th September, 1858.

2373. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in telegraphic apparatus."—Dated 23rd October, 1858.

2416. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved method of attaching wheels to the axles of railway carriages."—Dated 29th October, 1858.

2651. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved apparatus for propelling and steering vessels."—Dated 22nd November, 1858.

2775. Ralph Pickering, of Lockerbie, in the county of Dumfries, Railway Inspector, for an invention of "Improvements in communicating signals from one part of a railway train to another."—Dated 4th December, 1858.

2821. Henry Maudslay, of No. 4, Cheltenham Place, Lambeth, in the county of Surrey, Civil Engineer, for an invention of "Improved glass and other vitreous vessels."—Dated 9th December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 28th January*, 1859, *inclusive.*)

27th January.

299. Elisha Smith Robinson, of the city of Bristol, Paper Merchant, for an invention of "Improvements in machinery for lithographic and zincographic printing."—Dated 4th February, 1856.

28th January.

255. John Gretton, of Burton-upon-Trent, in the county of Stafford, Brewer, for an invention of "Improvements in brewing."—Dated 30th January, 1856.

261. Henry Tylor, of the firm of Tylor and Pace, of New Bond Street, in the county of Middlesex, Manufacturers, for an invention of "An improved joint, applicable to cots, bedsteads, and other frames in metal."—Dated 31st January, 1856.

268. John Barker Anderson, of East Hill, Wandsworth, in the county of Surrey, Soap Manufacturer, for an invention of "Improvements in the manufacture of soap, parts of which improvements are applicable to preparing materials for the purposes of illumination, and also for the purposes of lubrication."—Dated 31st January, 1856.

287. Benjamin Franklin Miller, of the city, county, and state of New York, United States of America, for an invention of "Improvements in ventilators for chimneys and other purposes."—Dated 1st February, 1856.

313. James Howard, of Bedford, Agricultural Implement Maker, for an invention of "Improved apparatus for making mould for castings."—Dated 5th February, 1856.

Erratum in Journal of 28th January.

114. For "Manceau" read "Manceaux."

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1858.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

5177. ALEXIS FRÉDÉRIC HERBILLON, represented by Clerdent, of 29, Rue des Martyrs, Paris, a Certificate of Addition to his Patent of 13th January, 1858, for "Improvements in the manufacture of dolls by using cork."—Dated 15th November, 1858.

5178. ETIENNE BROCARD, of 26, Rue de la Roquette, a Certificate of Addition to his Patent of 10th November, 1856, for "Casings of copper and brass without soldering for the manufacture of cylinders for printing stuffs."—Datad 15th November, 1858.

5179. MARIE LOUISE LISE BEAUDELORIX, of 104, Boulevart Monceau, Batignolles, a Certificate of Addition to her Patent of 14th December, 1858, for "Improvements in the manufacture of mechanical barcelonnettes, &c."—Dated 15th November, 1858.

5180. LISE BEAUDELOUX, of 104, Boulevart Monceau, Batignolles, a Certificate of Addition to her Patent of 2nd September, 1858, for "Metallic lace, various sorts of points for the manufacture of fancy articles."—Dated 15th November, 1858.

5181. ETIENNE DEMOLINS, represented by Richard, of 53. Rue Vivienne, Paris, for "A system for preventing carriages from running off the rails."—Dated 15th November, 1858.

5182. BOURET and FERRÉ, of 11, Rue du Perche, Paris, for "A system of stamping gold, silver, copper, and other metal rings."—Dated 15th November, 1858.

5183. BATAILLE, sen. and jun., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of iron framework for covering halls, stations, &c."—Dated 15th November, 1858.

5184. CAMILLE MAZOUDIER, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Applying electric telegraphs to the service in eating houses."—Dated 15th November, 1858.

5185. JOHN OXLEY, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in fixing and mounting frames of doors or windows of carriages."—Dated 16th November, 1858.

5186. NICOLAS LIBOTTE, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A system of breaks for steam and other engines."—Dated 16th November, 1858.

5187. PIERRE LOUIS MARIE ADOLPHE DE VILLERS, of 106, Rue du Bac, Paris, for "A system of extinguishers."—Dated 16th November, 1858.

5188. DE FREY, MALLET, and Co. (Société), domiciled with Delagrange, of 71, Rue des Marais St. Martin, Paris, for "Waterproof coating for rendering canvass impervious."—Dated 16th November, 1858.

5189. WILLIAM SELLERS, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "A machine for turning metal bars and axles, cylindrical rings and for screw cutting."—Dated 16th November, 1858.—(American Patent, expiring 11th June, 1872.)

5190. GEORGE BARTHOLOMEW, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in gas meters called 'water meters.'"—Dated 16th November, 1858.—(English Patent, expiring 11th June, 1872.)

5191. JEAN ADRIEN DELEUIL, of 6, Rue du Pont de Lodi, Paris, for "Improvements in photography."—Dated 16th November, 1858.

5192. ARCHEREAU and COUILLARD, of 118, Rue de Flandres à la Villette, for "A process for obtaining water-steam, hot air, and gases."—Dated 16th November, 1858.

5193. JACQUES LOUIS BOUCHER, of Rue de Bercy' au coin de la Rue d'Artois, Paris, for "An apparatus for drying stuffs, linen, and tissues in general."—Dated 16th November, 1858.

5194. BERNARD AUGUSTE SERRES, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A substance being a substitute for gutta-percha and caoutchouc."—Dated 16th November, 1858.

5195. ABEL JOSEPH ANTOINE ALLIÉ, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 2nd November, 1858, for "Instruments for measuring the dimension of the head for fitting hats."—Dated 16th November, 1858.

5196. DOMINIQUE ARTIGE, of 43, Rue de Grenelle, Grenelle, for "Improvements in grease boxes for railway carriages, &c."—Dated 17th November, 1858.

5197. CHARLES ULYSSE COLOMB-MÉNARD, of Rue Barabonne, Lodière, département de l'Hérault, for "A calculating machine for making additions, subtractions, and multiplications."—Dated 22nd November, 1858.

5198. JULES JOSEPH TEISSEIRE, of 44 B, Allées de Meilhan, Marseilles, département des Bouches du Rhône, a Certificate of Addition to his Patent of 19th June, 1858, for "Smoking pipes with purifying tubes."—Dated 22nd November, 1858.

* For the French Patent Law see No. 228 of this Journal.

5199. Constant Brocsolles, of 6, Rue St. Famille, Versailles, départment de Seine et Oise, for "A system of escapements for watches."—Dated 23rd November, 1858.

5200. Falguère and Soubrié, the former of Claira, the latter of Perpignan, département des Pyrenées Orientales, for "Impervious foot coverings."—Dated 23rd November, 1858.

5201. Stanislas Lemoine-Brabant, of 3, Rue du Levant, Reims, département de la Marne, a Certificate of Addition to his Patent of 2nd February, 1858, for "An apparatus for preserving slubs in spinning machines."—Dated 24th November, 1858.

5202. Guillaume Cassang, of Vergt de Biron, département de la Dordogne, a Certificate of Addition to his Patent of 8th April, 1857, for "A system of breaks, &c."—Dated 24th November, 1858.

5203. Fortuné Célestin Auphan, of 2, Cours St. Louis, Marseille, département des Bouches du Rhône, for "A truss."—Dated 25th November, 1858.

5204. Jean Mathieu Rey, of Tournon, domiciled with Teyssier, of Valence, département de la Drôme, for "A wheelbarrow."— Dated 25th November, 1858.

5205. Jean Marie Magnin, of 26, Quai de l'Archevêché, Lyon, département du Rhône, a Certificate of Addition to his Patent of 5th July, 1854, for "A machine for sewing and embroidering, &c."—Dated 25th November, 1858.

5206. Michel Locqueneux, of 6, Rue Comtesse, Lille, département du Nord, for "A continuous carbonizing kiln."—Dated 27th November, 1858.

5207. Eschenauer-Benecke and Co., of 24, Quai des Chartreux, Bordeaux, département de la Gironde, for "A system for melting and bleaching fat of oxen and other animals by a single operation."—Dated 27th November, 1858.

5208. Amand Jumeau, of St. Martin en Bierre, département de Seine et Marne, a Certificate of Addition to his Patent of 26th June, 1858, for "A machine for mortising and boring naves of carriage wheels, &c."—Dated 20th November, 1858.

5209. Claude Carteron, of Selongey, département de la Côte d'Or, for "A machine for destroying moles."—Dated 24th November, 1858.

5210. Jean Claude Mignot, of Messia-les-Clichy, département du Jura, for "A press for pressing the residue of grapes."—Dated 25th November, 1858.

5211. Nicolas Benjamin Nappée, of St. Nabord, département des Vosges, for "A mode of suspending bells, for facilitating their ringing and regulating the strokes."—Dated 26th November, 1858.

5212. Jacques Peurey, of Grand Lucé, département de la Sarthe, for "Improvements in Parand's machine for stoppering bottles, as patented 2nd July, 1856, said improvement consisting of an opening made at the side of the cylinder for introducing the stoppers in said machine."— Dated 26th November, 1858.

5213. Michel Menétrier, of Sellieres, département du Jura, for "An instrument applicable to all machines for accelerating their action."—Dated 27th November, 1858.

5214. Auguste Aubert, of 15, Rue des Capucins, Lyon, département du Rhône, for "A system of breaks."—Dated 27th November, 1858.

5215. Ludovic Londynski, of 3 bis, Rue de Rivoli, Paris, for "A kind of toys."—Dated 17th November, 1858.

5216. Meneut and Gorgu, domiciled with Letellier, of 8, Rue des Martyrs, Paris, for "A system of railway switches."—Dated 17th November, 1858.

5217. Louis Narcisse Simon, of 34, Rue du Petit-Carreau, Paris, for "Double tissues with running strings employed in belts for pages of ladies' dresses."—Dated 17th November, 1858.

5218. Roca and Delas, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Machines for manufacturing and moulding necks and stoppers of bottles, decanters, flasks, &c., of any ceramic substance."—Dated 17th November, 1858.

5219. Ebenezer Lester, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of railway carriages."—Dated 17th November, 1858.

5220. Henri Rudolphe Poninski, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 12th March, 1856, for "Improvements in the manufacture of artificial leaves and flowers."— Dated 17th November, 1858.

5221. Louis François Clément Breguet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 12th September, 1857, for "Improvements in Morse's telegraphs." — Dated 17th November, 1858.

5222. Guillout and Ruffier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in safety railway breaks."—Dated 17th November, 1858.

5223. Jean Baptiste Léon Mignot, of 21, Rue d'Hauteville, Paris, a Certificate of Addition to his Patent of 13th October, 1857, for "A preparation for drying asphalt, tar, &c., and rendering the same sinewy."—Dated 17th November, 1858.

5224. Jean Baptiste Léon Mignot, of 21, Rue d'Hauteville, Paris, a Certificate of Addition to his Patent of 19th June, 1857, for "Drain-pipes, water, gas, and other pipes."—Dated 17th November, 1858.

5225. Henri Laurent Muller, of 5 or 6, Rue des Poitevins, Paris, for "A mode of advertising, called 'perfumed advertisements.'"—Dated 17th November, 1858.

5226. Jean Eugène Leclaire, of 2, Passage St. Bernard, Faubourg St. Antoine, Paris, a Certificate of Addition to his Patent of 19th June, 1858, for "Improvements in toilet furniture."—Dated 17th November, 1858.

5227. Paul Adolphe Auguste Beau, of 11, Rue de la Monnaie, Paris, for "A pocket stereoscope."—Dated 17th November, 1858.

5228. Joseph Nicolas Brutus Broquet, of 9, Rue Fontaine au Roi, Paris, for "A kind of buckles."—Dated 18th November, 1858.

5229. Charles Boutet, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 5th June, 1858, for "Mountings of parasols."—Dated 18th November, 1858.

5230. François Coignet, with Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 29th March, 1855, for "Using all kinds of beton in constructions in in general."—Dated 18th November, 1858.

5231. Marie Simon Langlois, of 2, Rue Carnot, Paris, for "Encaustic gluten for painting."—Dated 18th November, 1858.

5232. Jean Périnaud, of 95, Boulevart Beaumarchais, Paris, for "A system of finishing woollen and mixed stuffs." — Dated 18th November, 1858.

5233. Félix Marie Baudouin, of 3, Rue des Récollets, Paris, a Certificate of Addition to his Patent of 8th February, 1858, for "Improvements in the construction of submarine telegraphic cables."—Dated 18th November, 1858.

5234. Jules François Mathias, of 120, Rue St. Denis, Paris, for "Goffering bonnets."—Dated 19th November, 1858.

5235. Touy Petitjean, represented by Brosette, of 5, Rue Jean Jacques Rousseau, Paris, a Certificate of Addition to his Patent of 8th October, 1855, for "A process for silvering mirrors and glass in general."—Dated 19th November, 1858.

5236. Charles Théodore Launay, of 7, Rue des Acacias, Vaugirard, for "A gas manometer." —Dated 19th November, 1858.

5237. Prince Serge Dolgoruki, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A cylindrical press, called 'sergiane.'"—Dated 19th November, 1858.

5238. André Guichard, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of garlands, and other ornaments for tombs." —Dated 19th November, 1858.

5239. John George Taylor, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in articles for the writing desk, and in their manufacture."—Dated 19th November, 1858.

5240. Jean Jacques Monnié, domiciled with Lunel, of 41, Rue des Bourdonnais, Paris, a Certificate of Addition to his Patent of 11th August, 1858, for "A machine for dry-rubbing and polishing inlaid floors, &c." — Dated 20th November 1858.

5241. Martin Nicolle, of 13, Rue des Filles du Calvaire, Paris, for "A gas carburator."—Dated 20th November, 1858.

5242. Tryer, Watt, and Holmes, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in tanning hides and leather."—Dated 20th November, 1858.—(English Patent, expiring 3rd November, 1872.)

5243. Marié Joseph Denis Farcot, of St. Owen, a Certificate of Addition to his Patent of 16th February, 1854, for "Improvements in the means of obtaining steam." — Dated 20th November, 1858.

5244. Pierre Richard, of 15, Rue St. Jean, Faubourg St. Germain, for "A system of presses."— Dated 20th November, 1858.

5245. Claude Conreaud, of 56, Rue St. Maur-Popincourt, Paris, a Certificate of Addition to his Patent of 21st October, 1857, for "A piston-can for oil or grease."—Dated 20th November, 1858.

5246. Bernard Lala-Borderie, of 15, Rue de Varenne, Paris, for "An hydraulic motor."—Dated 20th November, 1858.

5247. Charles John Carr, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in forge and other hammers."— Dated 20th November, 1858.—(English Patent, expiring 7th May, 1872.)

5248. Frédéric Versmann, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in purifying and softening water."—Dated 20th November, 1858.

5249. Enay Giraud, of 192, Rue de Paris, Belleville, for "A perfume."—Dated 20th November, 1858.

5250. Joseph Antoine Jean Redier, of 16, Rue des Petites Ecuries, Paris, a Certificate of Addition to his Patent of 30th April, 1856, for "A clock." —Dated 20th November, 1858.

5251. Prosper Victor Hippolyte Debriges, of 6, Rue Neuve St. Etienne, Paris, for "A mode of lighting waters for fishing by night."—Dated 20th November, 1858.

5252. Charles de Jongh, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 13th May, 1856, for "A mechanical process for sorting the staples of a bundle of carded filaments for spinning, according to length." — Dated 20th November, 1858.

5253. Pierre Joseph Lutterbach, represented by his Daughter, of 97, Rue St. Honoré, Paris, a Certificate of Addition to his Patent of 20th November, 1857, for "A kind of respiratory belt." —Dated 20th November, 1858.

5254. Napoléon Félix Boreiko de Chodzko, of 33, Chemin de Ronde de la Barrière Blanche, Paris, a Certificate of Addition to his Patent of 20th July, 1858, for "A smoke-consuming apparatus."—Dated 20th November, 1858.

5255. Charles Jules Joannis, domiciled with Médard, of 192, Rue du Temple, Paris, a Certificate of Addition to his Patent of 21st November, 1857, for "A pocket umbrella."—Dated 22nd November, 1858.

5256. Henry Gustave Delvigne, of 16, Rue des Acacias aux Ternes, for "A kind of pistol."—Dated 22nd November, 1858.

5257. Noel Henri Beltête, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to his Patent of 26th January, 1856, for "Manufacture of bezils in general." — Dated 22nd November, 1858.

5258. Antoine Lambert Kraemer, of 48, Chaussée Ménilmontant, Belleville, for "An instrument

called 'regenerator of the source of life.'"—Dated 22nd November, 1858.

5259. Edward Charles Priest, of 20, Rue de l'Observatoire, Paris, for "An hydraulic machine."—Dated 22nd November, 1858.

5260. Noemi Thurel, of 9, Rue d'Arcole, Paris, for "Net veils, called 'Egyptian veils.'"—Dated 22nd Novemher, 1858.

5261. Jean Louis Marie, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 22nd April, 1858, for "A pump for compressing air, gas, and fluids, &c."—Dated 22nd November, 1858.

5262. Louis Sourbien, of 8, Rue de la Charonnerie, St. Denis, for "A toy, called 'parachute arrows.'"—Dated 22nd November, 1858.

5263. Jean Freland, represented by Herpst, of 39, Rue de l'Echiquier, Paris, a Certificate of Addition to his Patent of 14th February, 1856, for "A system of semi-elliptical framework."—Dated 22nd November, 1858.

5264. Hippolyte Guillaume Garin, of 1, Rue de la Glacière, Passage Penel, Clignancourt, a Certificate of Addition to his Patent of 27th November, 1857, for "Improvements in the construction of flags for railways."—Dated 22nd November, 1858.

5265. Nicolas Duproz, of Aumont, Caen, département du Calvados, for "A force and lift pump, called 'Artesian pump.'"—Dated 20th November, 1858.

5266. Samuel Gnahn, of Wissembourg, département du Bas Rhin, for "A mill for pulverizing sugar."—Dated 22nd November, 1858.

5267. Michel Gœtz, of 31, Faubourg de Savenne, Strasbourg, département du Bas Rhin, for "A machine for disinfecting cesspools."—Dated 22nd November, 1858.

5268. Louis Rangod, of Valence, département de la Drome, for "A continuous wringing and washing machine, for washing tissues, silk-handkerchiefs, calico, &c. coming from the dye."—Dated 25th November, 1858.

5269. Olivier and Co., of Valence, département de la Drôme, for "Improvements in Olivier's process for stretching raw silk, as patented 23rd June, 1855."—Dated 27th November, 1858.

5270. Belmont and Perret, of 4, Rue Terraille, Lyon, département du Rhone, for "A shearing machine with a pointed lever."—Dated 27th November, 1858.

5271. Joseph Marleix, of 80, Rue Centrale, Lyon, département du Rhone, for "A symbolical collar."—Dated 30th November, 1858.

5272. Isidore Lerat, of Houdain, département du Nord, for "An economical system of heating by baking lime."—Dated 1st December, 1858.

5273. Hippolyte Masse, domiciled with Franchomme, of 17, Rue des Canonniers, Lille, département du Nord, for "Processes for discolouring beetroot juice."—Dated 1st December, 1858.

5274. Edme Marie Musard, of 47, Rue aux Surs, Paris, for "A system of brass instruments."—Dated 22nd November, 1858.

5275. Jean Louis Lucas, of 1, Rue Neuve St. Eustache, Paris, a Certificate of Addition to his Patent of 26th May, 1858, for "A preservative cosmetic."—Dated 22nd November, 1858.

5276. Henri Heidinger, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An absolutely constant electric battery."—Dated 22nd November, 1858.

5277. Louis Gustave Scriba, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A cigar case for preserving cigars."—Dated 22nd November, 1858.

5278. Davey and Chanu, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A composition for working mines, quarries, and extensive railway works."—Dated 22nd November, 1858.

5279. Jules Eugène Suffit, of 14, Carrefour de l'Odéon, Paris, for "An instrument for measuring declivities."—Dated 22nd November, 1858.

5280. Poivret and Charles Amos, and junr., domiciled with Georges, of 59, Rue de Saintonge, Paris, for "Manufacture of a kind of tricot on circular looms."—Dated 23rd November, 1858.

5281. Hublier, of 18, Rue Castex, Paris, a Certificate of Addition to their Patent of 11th October, 1858, for "A registering apparatus for carriages."—Dated 23rd November, 1858.

5282. Aimé François Joseph Lannoy, represented by Amouroux, of 333, Rue St. Martin, Paris, for "An apparatus for heating vehicles."—Dated 23rd November, 1858.

5283. Joseph Apollon Détroyat, of 10, Rue de Choiseul, Paris, a Certificate of Addition to his Patent of 26th October, 1857, for "A comb-cleaning apparatus."—Dated 23rd November, 1858.

5284. Métra and Bellat, of 21, Rue du Dragon, Paris, for "A kind of carpet."—Dated 23rd November, 1858.

5285. Pierre Cottin, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A seat with a moveable shaft."—Dated 23rd November, 1858.

5286. Alfred Hope Johnson Bastable, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in apparatus used for obtaining light."—Dated 23rd November, 1858.—(English Patent, expiring 11th September, 1872.)

5287. Henri François Gaultier de Claubry, of 45, Rue des Fossés St. Victor, Paris, a Certificate of Addition to his Patent of 23rd February, 1857, for "Treatment of suds."—Dated 23rd November, 1858.

5288. Marie Louise Koegel Fichter, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Making net voilettes by hand."—Dated 23rd November, 1858.

5289. Pouget and Lelong, the former of 10, Rue de Malte, the latter of 26, Boulevart St. Denis, Paris, for "Various applications to schist lamps."—Dated 23rd November, 1858.

5290. Louis Auguste Mielle, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 10th November, 1858, for "A system of advertising tables."—Dated 23rd November, 1858.

5291. Ernest François Jean Baptiste Cozette' represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Various applications of aluminium alloyed with certain metals."—Dated 23rd November, 1858.

5292. Caillet and William, of 8, Rue Thévenot, Paris, for "A comb-cleaning apparatus."—Dated 23rd November, 1858.

5293. Charles Prieur, represented by Daubréville, of 23, Boulevart de Strasbourg, Paris, for "A clasp for travelling bags."—Dated 24th November, 1858.

5294. Emmanuel Buxtor, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of knitted fabrics."—Dated 24th November, 1858.

5295. Layet and Fiéfuet de Sauville, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of continuous blasts."—Dated 24th November, 1858.

5296. Charles Joseph Mettais, of 8, Rue des Jeuneurs, Paris, a Certificate of Addition to his Patent of 2nd November, 1858, for "A goffering and quilling machine."—Dated 24th November, 1858.

5297. Antoine Gabriel Brocot, domiciled 62, Rue Charlot, Paris, for "Arrangements in clocks, and especially in the suspension of pendulums."—Dated 24th November, 1858.

5298. Thimoléon Zoé Louis Mauzel, of 44, Rue du Dragon, Paris, for "Improvements in clocks watches."—Dated 24th November, 1858.

5299. Narcisse Louis Simon, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, a Certificate of Addition to his Patent of 17th November, 1858, for "Double tissues with running strings employed in belts for pages of ladies' dresses."—Dated 24th November, 1858.

5300. Bailey, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in machines for combing wool and other fibrous substances."—Dated 24th November, 1858.—(English Patent, expiring 12th May, 1872.)

5301. Amédée Séguy, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A tobacco-pouch, called 'American pocket.'"—Dated 24th November, 1858.

5302. Josselin and Bertrand, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 24th April, 1858, for "A mode of closing inodorous closets, &c."—Dated 24th November, 1858.

5303. Auguste Soins d'Alégambe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 16th August, 1858, for "A process for wringing yarns."—Dated 24th November, 1858.

5304. Rowett, Paignon, and Daudaux, of 21, Rue de Hanôvre, Paris, for "Construction and mode of construction of electric telegraph wires."—Dated 25th November, 1858.

5305. Serge Krotkoff, represented by Pelet, of 10, Rue Mogador, Paris, for "A safety apparatus against thieves."—Dated 25th November, 1858.

5306. Eugène Goddier, represented by Pelet, of 10, Rue Mogador, Paris, for "Applying talc or mica to various purposes."—Dated 25th November, 1858.

5307. Marie Joseph Dangles, of 70, Rue d'Angoulême, Paris, a Certificate of Addition to his Patent of 10th September, 1858, for "Improvements in the construction of slides, inlets, and regulators of steam engines."—Dated 25th November, 1858.

5308. Eugène Charrière and Co., represented by Besançon, of 25, Rue St. Quentin, Paris, for "A process for tempering steel."—Dated 25th November, 1858.

5309. François Coignet, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 22nd January, 1857, for "Construction of monolite foot-pavements, or pavements of flag-stones."—Dated 25th November, 1858.

5310. Aléxandre Lambert, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A toy."—Dated 25th November, 1858.

5311. Ernest Stelzl, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of glass painting."—Dated 25th November, 1858.

5312. Jean Pierre Calandre, of 77, Rue de la Verrerie, Paris, for "A so-called 'Parisian inkstand.'"—Dated 25th November, 1858.

5313. Pierre Bernard, of 32, Rue Basse du Rempart, Paris, for "A machine for cutting up horn."—Dated 25th November, 1858.

5314. Meinrad Hitz, of 3, Rue St. Dominique, Paris, a Certificate of Addition to his Patent of 18th March, 1857, for "A system of toys."—Dated 25th November, 1858.

5315. Emile Muller, of 33, Rue de Chabrol, Paris, a Certificate of Addition to his Patent of 1st April, 1858, for "A fire-place with reversed hollow intermediate abutments."—Dated 25th November, 1858.

5316. Emile Muller, of 33, Rue de Chabrol, Paris, for "An apparatus for glueing wood by means of steam."—Dated 25th November, 1858.

5317. Robert Juckes Clifton, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in castors."—Dated 25th November, 1858.

5318. Gustave Besson, of 7, Rue des Trois Couronnes, Paris, a Certificate of Addition to his Patent of 18th March, 1858, for "Improvements in musical instruments."—Dated 25th November, 1855.

5319. Gustave Besson, of 7, Rue des Trois Couronnes, Paris, a Certificate of Addition to his Patent of 18th January, 1855, for "Improvements in brass instruments."—Dated 25th November, 1858.

5320. Charles Peugeot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mechanical process for manufacturing tools for carpenters, joiners, and others."—Dated 25th November, 1858.

5321. Joseph Haussmann, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A peculiar arrangement of drums and interior ventilators for dressing machines."—Dated 25th November, 1858.

5322. Pierre Prosper Baudouin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 9th February, 1858, for "A card with two large joined doffers, &c., with tops, &c."—Dated 25th November, 1858.

5323. Joseph Bouland, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A jointed folding rod with a brush for cleaning fire-arms and for other purposes."—Dated 25th November, 1858.

5324. Alexis Bouret, of Neufchâteau, département des Vosges, for "A press for cutting the edges of books."—Dated 29th November, 1858.

5325. Jean Noël Mauzaize, of Chartres, département d'Eure et Loir, for "A mechanism for throwing horizontal axles in and out of gear."—Dated 30th November, 1858.

5326. François Auguste Ducrot, of 2, Rue Duquai, Louvier, département de l'Eure, for "A kind of gas regulator."—Dated 29th November, 1858.

5327. Messrs. Arbault, of Périgueux, département de la Dordogne, a Certificate of Addition to their Patent of 18th May, 1858, for "A machine for cutting files."—Dated 29th November, 1858.

5328. Jean Martin Cosnard, of 10, Rue d'Albertas, Marseille, département des Bouches du Rhône, for "A split gas-burner for obtaining a convergent and steady light."—Dated 30th November, 1858.

5329. Jean Pierre Girard, of Coutances, département de la Manche, for "A coffee-mill."—Dated 1st December, 1858.

5330. Balard and Usiglio, of Alois, département du Gard, for "A method of manufacturing carbonate of soda and potash, by means of lixivia, which have previously been washed by metallic oxides."—Dated 29th December, 1858.

5331. Jean François Xavier Perrin, of Vuillafaus, département du Doubs, a Certificate of Addition to his Patent of 5th July, 1853, for "A system of pumps with two cylinders of a different diameter." — Dated 30th November, 1858.

5332. Jean François Xavier Perrin, of Vuillafaus, département du Doubs, for "Improvements in the construction of pumps with a single action and a direct motion, called 'pumps for carriages and watering.'"—Dated 30th November, 1858.

5333. Jean Bergeron, of Fléac, département de la Charente, for "An apparatus for distilling wines and other alcoholic substances."—Dated 30th November, 1858.

5334. Jean Verset, of Haute Grand Rue, Nantes, département de la Loire Inférieure, for "Working and chasing zinc without tempering the same, for the manufacture of grooved pipes used in conveying the waste-water of houses."—Dated 1st December, 1858.

5335. Marceline Boyer Guignon, of Marseille, département des Bouches du Rhône, for "Knitting petticoats by hand or machinery." —Dated 2nd December, 1858.

5336. Frédéric Chenel, of 4, Place du Commerce, Nantes, département de la Loire Inférieure, a Certificate of Addition to his Patent of 5th December, 1857, for "A machine for thrashing trefoil and other grain."—Dated 2nd December, 1858.

5337. Jacques Etienne Porcher, of Luce, département d'Eure et Loir, a Certificate of Addition to his Patent of 6th March, 1858, for "A regulator billiard table."—Dated 2nd December, 1858.

5338. Bernard and Vallette, of 7, Rue des Fossés, St. Etienne, département de la Loire, for "Two systems of locks with spring roundings, one being a two and a half lock with one bolt, the other being called 'English lock with spring roundings.'"—Dated 2nd December, 1858.

5339. Monnier and Co., of 2, Rue Thiars, Marseille, département des Bouches du Rhône, for "An apparatus for introducing certain substances into steam boilers for protecting the same from incrustations."—Dated 3rd December, 1858.

5340. Adrien Cabarrus, of Grignols, département de la Gironde, a Certificate of Addition to his Patent of 27th July, 1858, for "Means and arrangements for applying breaks to railway-carriages."—Dated 3rd December, 1858.

5341. Marie Marguerite Beaujeu Cognard, of St. Just en Chevalet, département de la Loire, for "Obtaining embroideries without wrong sides, by the needle."—Dated 3rd December, 1858.

5342. Vincent Verneuil, of Moulins, département de l'Allier, for "Using the mistletoe in making liqueurs, preserves, and pastry."—Dated 3rd December, 1858.

5343. Premier, senr. and junr., of Romans, département de l Drôme, for "An economical process for manufacturing preserved fruit."—Dated 4th December, 1858.

5344. Aléxandre Plaff, domiciled with Kirchleim, of Cours Noir, Strasbourg, département du Bas Rhin, for "A so-called 'barometric motor.'"—Dated 30th November, 1858.

5345. Emile Scriba, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of expansion bag for ladies, and for other purposes."—Dated 25th November, 1858.

5346. Jules Chopin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th July, 1856, for "A gas carburator." — Dated 25th November, 1858.

5347. Aléxis Lamy, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Applying barlooms."—Dated 25th November, 1858.

5348. Alfred Marsh, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in gas retorts for extracting gas from oils or other liquid substances."—Dated 25th November, 1858.—(American Patent, expiring 10th August, 1872.)

5349. Joël Haywood Tatum, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of candles." —Dated 25th November, 1858.—(American Patent, expiring 5th October, 1872.)



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 11th January, 1859, and each bearing that date.

No. 22,538. WM. PAGGET ALLEN, of Dubuque, Iowa, for an "Improvement in composition for friction matches."

"I do not claim the use of the general substance marked as A. in the foregoing specification as a coating for the tips of matches, nor the combination of phosphorous with earthy substances to render it less inflammable, nor its combination with glutinous substances to cause it to adhere; but what I do claim is, 1st, the combination of phosphorous with the substances marked B and C, in the proportions and manner substantially and for the purpose set forth in the foregoing specification. 2d, the combination of phosphorus with the substances marked D and E, in the said proportions and manner and for said purpose. 3d, the combination of phosphorus with the substance marked A, in said proportion and manner and for said purpose."

No. 22,539. JOHN ALLENDER, of New London, Conn., for an "Improved roller for expressing water from clothes."

"Claim.—I claim a roller consisting of a spirally coiled spring arranged on a shaft or roller; made smallest in the middle (to allow the spring to yield), covered with india-rubber or some flexible material that will yield or bend readily as the spring yields to the cloth, clothes, or other article being squeezed by the rollers."

No. 22,540. JAMES BARKLEY, of Weston, Mo., for an "Improved door spring."

"Claim.—I do not claim, broadly, the devices herein employed, as I am aware that many forms and arrangements of these have been used; but having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment of the spring B, which shall be provided with a hook *a* at one end, and which shall be secured to the casing at the other by means of two half staples, thus making a spring which is adjustable to both ends capable of being detached from either the door or casing in a moment of time, as herein specified."

No. 22,541. BENJN. BEERS, of New Fairfield, Conn., for an "Improvement in canteens."

"Claim.—I claim the combination with said canteen of the additional vessel made by hollowing out a piece of wood and inserting its edge in a groove in the end or head."

No. 22,542. A. J. BOWERS, of Richmond, Va., for an "Improved method of securing together the sides of cast-metal columns."

"Claim.—Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, securing the plates or sides of metal columns together by means of the projections *a, a, e, e*, ledge *c*, provided with notches *d* and the wedges *f, f*, substantially as shown and described."

No. 22,543. THOS. BIRCH and LEWIS BRADLEY, of Hartford, Conn., for an "Improved water-closet."

"The nature of our improvement consists in constructing an air vessel, or in the employment of an air vessel, to produce a gradual stoppage of the flow of water as applied to waterclosets. Claim.—We are aware that various devices have been used for the purpose herein described, by the use of water and air valves of different construction; but what we claim, and desire to secure by Letters Patent, is, the arrangement of the metallic rim B, arm C, disk F, cap G, lever Q, in the manner as and for the purpose described."

No. 22,544. DUNCAN BRUCE, of Paspebiac, Canada, for an "Improvement in artificial manure."

"Claim.—I do not claim the use of burned clay as an absorbent, nor of charred vegetable substances, for the purpose of disinfecting animal matters, neither do I claim making use for the above purpose of any mixture of these substances, when not prepared as above described; but what I do claim as my invention, and desire to secure by Letters Patent, as a new article of manufacture, is, the manure manufactured by the within described process, the animal matters being first decomposed in the manner set forth, and subsequently disinfected be charred shale, or its equivalent, as described."

No. 22,545. GEORGE BUCHANAN, of Hickory, Pa., for an "Improved school desk and chair combined."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, a seat C, pivoted near its front edge to a stationary frame, and hinged near its rear edge to a movable back, and having its arms pivoted by their rear ends to the movable back, and hinged to the stationary frame, substantially as and for the purposes set forth."

No. 22,546. J. D. C. CARPENTER, of Cincinnati, O., for an "Improved device for setting laterally circular saws."

"My invention consists in the use of two cranks or a rock shaft, acting as an eccentric for moving or setting the saw shaft and saw laterally. Claim.—Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United States, is, the rock shaft F, connected with arms *e*, and acting as an eccentric, or as two cranks for adjusting the saw shaft laterally, substantially as set forth."

No. 22,547. JOHN B. CORNELL, of New York, N.Y., for an "Improved burglar proof safe."

"Claim.—Having thus fully described my improvement in burglar proof safes, what I claim therein as my invention, and desire to secure by Letters Patent, is, combining a cast-iron door frame with the wrought-iron portions of the frame of a safe, in such a manner that the molten iron, which is afterwards, whilst in a melted state, combined with the said safe frame, will form a burglar-proof protecting casing around the said door frame, substantially as herein set forth."

No. 22,548. ELIJAH H. DANFORTH, of Jamestown, N.Y., for an "Improved lathe attachment for finishing dental plates."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the mechanical devices herein specified, consisting of the piston *c, c*, bed pieces *a, a*, boxes *b, b*, slides *e, e*, and *j*, and the crank, constructed and operated for dental and other purposes as herein described, and I also claim the adjustable crank, as it is arranged and attached to the specified parts of this machine, as herein set forth."

No. 22,549. THOS. DANIELS, of Toledo, Ohio, for an "Improved soda-water apparatus."

"Claims.—Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United States, is,—1st, the arrangement of the whole apparatus, the sirup cans being elevated above the refrigerator, to which is provided with the group stop cock, substantially as set forth for the purposes described. 2d, the arrangement of the tubes *d* and G, for conducting the sirups and the water to the top of the ice chamber, without cooling them, and concentrating the cooler portions of these liquids below the ice, near the place of discharge, substantially as described."

No. 22,550. A. L. DENNISON, of Waltham, Mass., for an "Improved method of securing the cylindrical balance springs of watches."

"My invention consists in a peculiar construction of top plate, and in connection therewith in placing the cylindrical spring beneath the balance, and between it and the fork. Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, placing the cylindrical spring *h* beneath the balance, and between it and the fork, and cutting away the upper plate to furnish room for its accommodation, as set forth."

No. 22,551. Eugene Duchamp, of St. Martinsville, La., for an "Improved Lewis for attaching tackles to blocks of stone."

"Claim.—Having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a 'Lewis,' composed of a shell A, air pump D, nozzle or tube B, packing E, staple G, and otherwise made as shown and herein described."

No. 22,552. Saml. Falwell, of Memphis, Tenn., for an "Improvement in endless conveyors for removing earth."

"Claim.—I do not claim an endless chain or series of buckets or boxes for carrying or conveying purposes; but what I claim as my improvement, is,—first, the series of sectional cars *e*, *e*, in an endless connection, each car being provided with terminal or track wheels *h*, and intermediate wheels *g*, *g*, of varying and lesser diameter than the track wheels, and shoulder stops *k*, *k*, or equivalents thereof, substantially as herein above set forth. Second, I claim the combination of such cars with an upper and lower track, and wheels *c*, *c*, as set forth."

No. 22,553. Moses G. Farmer, of Salem, Mass., for an "Improved electro-magnetic fire alarm apparatus."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the circuit wheel *a*, and the crank or handle by which it is actuated, in combination with the key H and the electro-magnetic circuit, operating in the manner substantially as set forth, to send a definite signal from a sub-district to the central station. 2nd, I claim the method of completing the circuit when the door of the signal box is closed, through the springs M and N, as set forth for the purpose described."

No. 22,554. John S. Gray, of New York, N. Y., for an "Improved door spring."

"Claim.—Having thus fully described my improvement, what I claim, and desire to secure by Letters Patent, is, the combination of the socket *a*, *b*, bolt *c*, and hold-fast *f*, with the torsion spring, constructed and arranged substantially in the manner and for the purposes set forth."

No. 22,555. I. R. Haldeman and I. S. Haldeman, of Bloomington, Ill., for an "Improved washing machine."

"Claims.—Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is,—first, the arrangement of the springs F, and supporting beams E, in connection with the sliding frame G, that carries the lower series of fluted rolls H, for the purposes set forth. Secondly, the clasp Q, as constructed and operated, for the purposes set forth. Thirdly, the sliding standard R, or its equivalent, in combination with the rack bar Y and pawl X, the whole being arranged and operated in the manner and for the purposes substantially as set forth."

No. 22,556. Eden S. Howell, of Hope, N. J., for an "Improved washing machine."

"Claim.—Having fully described the construction and operation of my improved washing machine, and not wishing to limit my invention to the exact detail of mechanical construction illustrated, what I claim therein as new, and desire to secure by Letters Patent, is,—1stly, the combination of the 'live rubber' *k*, with the horizontal sliding and rotating shaft G, vibrating pressing lever H, and ratchet *g*, or its equivalent, the whole arranged and operating substantially as herein-before described, for the purposes set forth. 2ndly, in combination with the rocking and pressing rubber K, the perforated rubber partition E, substantially as described. 3rdly, the detachable lever *m*, and bar O, substantially described, for the purpose set forth."

No. 22,557. Thos. J. Hubbard, of Hamilton, N. Y., for an "Improvement in flail caps."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the construction of flail caps of casting metals in separate parts or sections with the lip or crescent tongue formed upon the interior thereon, as above described."

No. 22,558. Edwd. Hunt and Henry Davis Pochin, of Talford, England, for an "Improvement in preparation of resins."—Patented in England, 27th April, 1858.

"Our invention or discovery consists in certain new articles of commerce produced from resin and resinous substances, and purified and partially deprived of their color by an improved process. Claim.—Having thus described the nature of our invention, and the best means with which we are acquainted of performing the same, we would have it understood that we are aware that stills and steam worms, capable of distributing small jets of steam, have been before used in a somewhat similar way for the treatment of oils and fatty matters, and for improving the quality of resin oil obtained from substances similar to those used by us in the processes herein-before described; but such a process has never, so far as we can ascertain, been applied to any such substances as are proposed to be operated upon by our processes, for the purposes of obtaining the resinous and solid products above specified as the result of our said processes; we therefore claim as our invention or discovery, and desire to have secured to us by Letters Patent, the new articles of commerce herein-above specified, as produced by the processes herein-above mentioned, or by any similar mode or process, said articles or products not having been hitherto known in commerce or used in the arts."

No. 22,559. R. V. Jones, of Johnstown, Pa., for an "Improved sausage stuffer."

"Claim.—I am aware that screws have been used in presses of various kinds; I therefore do not claim the screw in pressing or stuffing sausages; but what I do claim, and desire to secure by Letters Patent, is, the piston rod and supporting recess, constructed as described, in combination with the pronged nut and screw, for the purpose specified."

No. 22,560. Henry W. Joslin, of Trenton, N. J., for an "Improvement in treatment of india-rubber."

"Claim.—Having thus clearly described my improved process for curing or vulcanizing india rubber, I will state what I claim, and desire to secure by Letters Patent:—I claim the use and employment of sulphuret of zinc, either artificial or native, substantially prepared by the aforesaid process above described in combination with india-rubber, for the purpose of curving or vulcanizing it in form and manner as herein set forth, without the use of free sulphur in any way, in combination with the rubber."

No. 22,561. John L. Knowlton, of Glassborough, N. J., for an "Improvement in stump extractors."

"Claim.—I claim, and desire to secure by Letters Patent, the lever C with its catches G and G^1, in combination with the hauling chain H and springs M and M^1, or their equivalents, when the said chain is guided so as to prevent it from twisting or from moving laterally or vertically, as herein set forth."

No. 22,562. Olivier Lafreniere, of New York, N. Y., for an "Improvement in horse collars."

"Claim.—Having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a horse collar, having its lower part provided with a metallic tube C, to give form to and hold the packing, and otherwise made as herein set forth."

No. 22,563. Henry Lester, of Cincinnati, O., for an "Improvement in roofing compositions."

"Claim.—I do not wish to be understood as claiming the manner of applying my composition, or of any of the within-named ingredients when taken separately; but what I do claim as new and of my own invention, and desire to secure by Letters Patent, is, a composition for roofing and similar purposes, produced from the mixture of the ingredients herein described, in the proportions and for the purposes set forth."

No. 22,564. John Marvin, of Bellport, N. Y., for an "Improved taper gauge for carpenters."

"Claims.—Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment or use of a conical roller C applied to a block or stock B of the gauge, and connected with a rack *a* of the pencil bar A, in the manner shown, or in any equivalent way, so that the roller will be rotated as the gauge is shoved along, and the bar A moved longitudinally by the rotation of the roller, so as to produce the desired result. I further claim, in combination with the conical roller C, the adjustable band *c* and fence *e*, applied to the block or stock B, for the purpose of regulating the degree of taper of the line *h*, substantially as described."

No. 22,565. Edwd. Maynard, of Washington, D. C., for an "Improvement in metallic cartridge cases."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, as a new manufacture, is, an

improved metallic cartridge, composed of a brass cup, combined with an exterior steel disk, substantially as herein set forth."

No. 22,566. Chas. McBurney, of Roxbury, Mass., for an "Improvement in india-rubber hose pipes."

"Claim. What I claim as my invention, and desire to secure by Letters Patent, as a new article of manufacture, is, a semi-elastic composition pipe, compounded of the ingredients, and in the proportions substantially herein specified, when vulcanized as set forth."

No. 22,567. Alexr. R. McCans, of Ashley, Missouri, for an "Improved machine for sawing shingles from the bolt."

"My invention consists, first, in the combination of devices for swinging the saw past the bolt, so as to saw off the shingles, and for returning it again for the next succeeding similar operation; and secondly, in the combination of devices for setting the bolt, to give the proper taper to the shingles which are cut 'but and point' therefrom. Claim.—Having thus fully described the nature, object, and operation of my machine, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a saw hung in a swinging arm, the spur *h*, rack *i*, and sliding bar E, for drawing said saw through the bolt, to sever the shingle therefrom, and to trip and allow the saw to fall back for the next similar operation, substantially as described. I also claim, in combination with a pivoted table for holding the bolt, the shifting bars R, R, arranged and operating substantially as herein described, for bringing the bolt up to the saw in such manner as to alternately reverse the ends of said bolt from which the buts and points of the shingles are cut, as set forth."

No. 22,568. Thos. E. McNeill, of Philadelphia, Pa., for an "Improvement in railroad car seats."

"Claims.—What I claim as my invention, and desire to secure by Letters Patent, is, 1st, jointing the ends of the arm rests I to the ends of the upright standards L, at the corners of the seats, and providing their opposite ends with sliding bolts or bars M, and right angled plates P, and half pivots or pins I^1, for enabling their ready attachment, when in a horizontal position, by the bars H, and their upright elevation to form a support for the hinged portions G^1 of the backs G, when the seats are swung round upon the crank bars B, substantially in the manner and for the purpose before described. 2nd, I claim the combination of the hinged board T, with the projecting ledges T^1 on its surface, with the box-like frame A^2, forming the rest for the bottom A^1, of the seat next the end of the car, in which it can be enclosed, as before described. 3rd, in combination with the swinging seats, I claim the box-like frames N, and the platforms U, V, attached to the same by the cranks U^1, and jointed bars W, arranged and operating in the manner and for the purpose herein set forth."

No. 22,569. Geo. Morgan, of Brooklyn, N. Y., for an "Improvement in stone-cutting machines."

"Claim.—Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of cutters I of gradually increasing length in such relation to hammers G, and to a sliding carriage T, that, by the action of the hammers on the cutters, an incision is made through the whole length of a block of stone which is placed on the carriage, substantially as and for the purpose specified."

No. 22,570. Antoine Niel, of Brooklyn, N. Y., for an "Improvement in apparatus for incressing draught of chimneys."

"Claim.—Having thus fully and clearly described the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the exterior tube, having the expanded conical and cylindrical portions constituting the chamber of compression, and the contracted annular space between the two tubes above the conical part of the tube (*c*), with the inner tube, the two tubes bearing the relation to each other as herein set forth, and forming an apparatus for improving the draught of chimneys, as herein described."

No. 22,571. Antoine Niel, of Brooklyn, N. Y., for an "Improvement in bridle bits."

"Claim.—Having thus fully set out my invention, what I claim as new, and desire to secure by Letters Patent, is, 1, the combination of the grip or bars constructed substantially as described, with the bars of the bit of the horse. 2d, attaching the griper bars by their double-eyed ends, and by the screw nuts to the bars (*g*) and (*a*), as here set forth."

No. 22,572. Theodore Noel, of Memphis, Tenn., for "Improved spectacle frames."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the employment of springs *b*, *b*, applied to the frame, substantially as and for the purposes herein specified."

No. 22,573. James O'Hara, of Pittsburgh, Pa., for an "Improvement in retorts for distilling oils from coal."

"Claim.—I do not claim, generally, the use of a stirring apparatus within a retort, as I am aware that such apparatus has been used in retorts for some distilling processes; but what I claim as my invention, and desire to secure by Letters Patent, is, the employment, in an upright retort for distilling coal, of a revolving screw, of a circumference smaller than the interior of the retort, so applied, that while by its revolution, it produces a continuous elevation of the central portion of the charge, it permits and causes a continuous descent of the surrounding portion by gravitation, and thus produces a positive continuous and uninterrupted upward and downward circulation, substantially as and for the purpose herein set forth."

No. 22,574. Albert Ostrander, of New York, N.Y., for an "Improvement in gas burners."

"Claim.—Having now described my invention, and its mode of manufacture, I will proceed to set forth what I claim, and desire to secure by Letters Patent of the United States, I am aware that similar compositions of materials have been known and used previous to my use of them, and therefore, irrespective of the application of the composition of felspar, quartz, and asbestos, in the manufacture of my gas burner, I make no claim to it; but what I do claim is, in the manufacture of gas burners made of the composition of felspar, quartz, and asbestos, having the peculiar formation of the vents herein-before set forth."

No. 22,575. B. Frank Palmer, of Philadelphia, Pa., for an "Improvement in artificial forearms."

"The nature of my invention consists in the modifications of my improved arm and hand, for the purpose of adapting them to the amputation below the elbow. Claims.—Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is, 1st, closing the hand by means of a strap operated by an attachment to the shoulder of the opposite arm, substantially in the manner described. 2d. The clamp H, constructed and operating as described and applied to the purpose specified."

No. 22,576. B. Frank Palmer, of Philadelphia, Pa., for an "Improvement in artificial arm and hand."

"Claims.—Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is as follows:—1st, giving a sinuous course to the flexor tendons of the fingers, by means of the sheaves, for the purpose described. 2d, opening the fingers by means of extensor tendons, antagonizing the flexors by means of springs, substantially as described. 3rd, the wrist joint, constructed as described, of a ball and socket, held in contact by cords Z, Z, arranged and operating substantially as specified. 4, giving a soft and elastic covering to the shaft V, and the wrist C, for the purpose of imitating the changes of form which take place in the natural arm, during the movements of the radius, and the play of the pronator and supinator muscles, substantially as described. 5, the mode herein-described of attaching the arm to the body."

No. 22,577. Edwin R. Pease and Richd. R. Hayman, of Poughkeepsie, N. Y., for an "Improvement in peg cutters."

"Claim.—We claim as a new article of manufacture, the above-described machine for cutting off or removing pegs and nails from the insides of boots and shoes, substantially as described."

No. 22,578. Edmond Pesier, of Valenciennes, France, for an "Improvement in the manufacture of sugar."—Patented in France, 29th March, 1858.

"This invention consists in the application to the manufacture of sugar of alcohol, and agents capable of effecting, when mixed with this liquid, the elimination of mineral or organic matters incorporated with the sugar in the juice of saccharíferous plants. Claim—Having thus described the nature of my invention, so as to enable others skilled in the art to carry out the same I observe, in conclusion that I

do not claim the use of alcohol in the purification of crude sugar. But what I do claim and wish to be protected by Letters Patent of the United States is, treatment of the saccharine juices of plants, in the manner described, by the use of alcohol, in combination with other special agents."

No. 22,579. Warren B. Potter, of Boston, Mass., for an "Improvement in nursery bottles."

"Claim.—Having thus fully described the nature of my invention, what I claim is, a nursing bottle of glass, having a metallic cap screwed upon it, and a metallic lacteal tube, when said cap is provided with a flange for the reception of the elastic nipple, and the whole is made and put together, substantially as herein set forth."

No. 22,580. Alfred Proseus, of Philadelphia, Pa., for an "Improvement in grinding mills."

"Claim.—I claim, and desire to secure by Letters Patent, placing across the recesses formed by the teeth of the shells, or of those of the burrs, or of both, of conical grinding mills, any convenient number of obstructing strips, as and for the purpose herein set forth."

No. 22,581. Augustus Prenatt, of Buffalo, N. Y., for an "Improved machine for dressing hoops."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, placing the cutters (*c*) in the cutter head (B), in such position that the plane of their cutting edge will cross their axis of motion at an angle of forty-five degrees (or nearly so), and also stand inclined to the horizontal plane of their axis, at an angle of forty-five degrees (or nearly so), substantially as set forth. 2d, I claim the arrangement of the cutter (*g*) in the vertically moving gate (F) (including the adjustable roller H), for the purpose of dressing the edge of the hoop, and for giving the hoop any required width, as herein described."

No. 22,582. Geo. M. Prentiss, of Worcester, Mass., for an "Inkstand."

"Claim.—Having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, an inkstand having a plunger E, constructed and fitted as hercin shown and described."

No. 22,583. Isaac Reamer, of Conrad's Store, Va., for an "Improvement in corn harvesters."

"Claims.—What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination of the elastic lower guide *a* with the adjustable upper rigid guide *e*, when these parts are arranged for joint operation in the manner described for the purpose specified. 2nd, the arrangement and combination of guide *h* and swinging clearer G, for removing the corn from the platform, in the manner described."

No. 22,584. Albert C. Richard, of Newtown, Conn., for an "Improvement in detaching paper from vulcanized gum."

"I do not claim as new the mechanism described, nor do I wish to be understood as limiting myself to the use of such mechanism exclusively, as the same may be varied without altering the nature of my invention. What I claim as my invention, and desire to secure by Letters Patent, is, subjecting the surface or surfaces of vulcanized india rubber, gutta percha, or other elastic gum, sheets, valves, belts, or other objects which have been so vulcanized or cured between or on paper, and to which the paper adheres, to a mechanical process of regular bending and continual elongation, substantially as described, having the continuous effect of drawing or detaching the filaments or atoms of the elastic gum which adhere to or which have entered into the pores of the paper, gradually and regularly therefrom and thereout simultaneously across the whole width of the surface operated upon, in the manner as herein set forth, or in any other manner, producing substantially the same result."

No. 22,585. Wm. Ripley, of Edgartown, Mass., for an "Improved framing square."

"I do not claim the mere repetition of the bevel or miter slots and square arms, as applied to the rule A, provided with a lip B; but what I do claim is, the improved manufacture of framing square, as made with its bearing ledge, its squaring arms, mitre slots, and mortising slots, arranged together and with respect to a base rule A, substantially as set forth.

No. 22,586. Stephen Scotton, of Richmond, Ind., for an "Improvement in machinery for oiling the journals of locomotives."

"Claims.—What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination of the weighted shaft B, the spiral spring F, and the box C, with the journal of a locomotive carriage, substantially as herein set forth. 2d, I claim the metal cup H, in combination with the box C, and upright shaft B, or their equivalents, for the purposes herein specified. 3rd, I claim the nut J, when combined with the upright shaft B and cup H, or their equivalents, in the manner and for the purposes herein specified."

No. 22,587. Lewis Solomon, of New York, N.Y., for an "Improvement in treating auriferous and argentiferous pyrites."

"My invention consists in a new and improved process of extracting the precious metals from their ores, by which a much greater per centage is obtained than heretofore. Claim.—I do not intend to confine myself to the specific times and proportions mentioned in the foregoing specification, these being merely incidental to and not of the essence of the invention; but what I claim as new, and desire to secure by Letters Patent, is,—First, extracting gold and silver from auriferous and argentiferous pyrites, in the manner substantially as herein set forth. Secondly, the application of wood ashes to the roasted ore during the process of grinding, and of soda ash, for the purposes specified."

No. 22,588. Otis W. Stanford, of Cincinnati, Ohio, for an "Improvement in grinding surfaces for mills."

"Claim.—I claim the employment of a system of circular grinding teeth, when arranged in the manner and for the purposes above set forth. I also claim arranging around the outer surface of the disk intercepting V-shaped teeth, to operate in the manner and for the purposes herein specified."

No. 22,589. Casper V. Statter and Geo. W. Wilson, of Walnut Grove, Ill., for an "Improvement in foot trip-hammers."

"Claim.—Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, arranging a hammer B, in such relation to an anvil I, by means of levers E and F, and links D, D, that the same can be operated by means of a hand lever L, or by foot levers J, J, substantially as herein described. And we also claim the arrangement of the hand lever L, in such relation to the foot levers J, and to the chisel O, that both the hammer B, and the chisel O, may be operated by the motion of the hand lever, in the manner and for the purpose substantially as specified. And in combination with the above-described hammer, we further claim connected the handle N of the chisel with the arm M, by means of an adjustable rod *g*, so that the cutting edge of the chisel may be accommodated to different thicknesses of iron, substantially as herein set forth."

No. 22,590. Richd. A. Stewart, of St. Bernard Parish, La., for an "Improvement in defecating and clarifying cane juice."

"My invention or improvement consists in passing or disseminating, in any convenient manner, throughout the saccharine matter, sulphurous acid or gas, produced by a slow combustion, in a nearly retort of sulphur or common roll brimstone. Claim.—Having fully made known the nature of my improvement, and the manner in which I have reduced the same to practice, I do not claim broadly the use of sulphurous gas or sulphurous acid gas, in the manufacture of sugar; but what I claim as new, in the defecation and clarification of cane juice and other liquid or semi-liquid forms of saccharine matter, is disseminating throughout the same sulphurous gas or sulphurous acid gas, for the purposes herein set forth."

No. 22,591. H. K. Symmes, of Newton, Mass., for an "Improvement in gas retorts."

"I do not lay claim to any particular form of retort, neither do I claim the passage C, for the conduct of the gas from the rear of the retort to its mouth, nor for any other purpose. Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, dispensing with the mouthpiece of the ordinary horizontal gas generating retort and dividing the mouth of the retort into two portions, one of which is brought into permanent connection with the stand pipe, the other being employed for the purpose of charging the retort, as set forth."

No. 22,592. Joel H. Tatum, of New York, N. Y., for an "Improvement in manufacture of candles."

"Claim.—Having thus described my invention, what I claim, and desire to secure by Letters Patent, as an improved article of manufacture, is, a candle, having its stock com-

posed of tallow, stearic acid, and gum camphor, with or without bees'-wax, in about the proportions herein specified, and the exterior of the candle covered with a compound, composed of stearic acid, gum camphor, and gum damar, or equivalent flux, in about the proportions herein set forth."

No. 22,593. Benjn. C. Tilghman, of Philadelphia, Pa., for an "Improvement in hardening fatty substances." — Patented in England, 2nd May, 1857.

"I do not claim generally the process of hardening fatty substances by sulphuric acid, as I am aware that this has been before proposed; but in such cases, the heat employed has been under or about 212° Far. Now, I have found that the hardening effect of sulphurous acid is very greatly increased, by causing it to act upon the fatty substances at more elevated temperatures, preferring from about 350° to 550° Far.; but which may be varied from a little above 212° Far. to above the distilling point of the fatty substance, and it is to this modification of the process, that this part of my claim extends and is confined. I am also aware, that it has been before proposed to decompose fatty substances and soaps into fat acids, and to purify fatty substances from mucilage, gelatine, &c., by means of sulphurous acid, and also to subject fatty substances to the action of strong sulphuric acid, whereby sulphurous acid is generated in the fat itself, and I wish it to be understood, that I make no claim to any of the above processes. I claim the hardening of acid and neutral fatty substances, by subjecting them to the action of sulphurous acid at elevated temperatures, either with or without pressure as above described. I also claim the use of oxide of copper, or its chemical substitutes, to remove from fat acids, the sulphuretted impurity produced therein by treatment with sulphurous acid as above described. I also claim the methods of preserving the color of white neutral fats, when treated by sulphurous acid at elevated temperatures, by using the sulphurous acid entirely free from air or oxygen, and by using fats pure and neutral, and free from any mixture of acid, rancid or decomposed fats."

No. 22,594. Jeremiah C. Tilton, of Sanbornton Bridge, N. H., for an "Improvement in temples for looms."

"I do not claim the mere application of teeth to a spring to be forced away from the temple lip or cloth bearer, by the action of a wedge or its equivalent at the time of beating up of the loom, as such is found in the well-known Stellman temple; nor do I claim the application of a stationary spur plate to a temple, with the pins in the said plate inclined at an angle to the breast beam and in the direction in which the lay beats up, the same being shown in the United States Patent, numbered nine thousand nine hundred, and for the purpose therein mentioned; but what I do claim, is, the application of the cloth bearer carrier to its support, by a hinge arranged in manner substantially as described, that is so as to allow the carrier and its bearer to be drawn backward under circumstances as described."

No. 22,595. Artemas B. Vant, and Arlon M. Cook, of Milford, Mass., for an "Improvement in corn shellers."

"We do not claim a convex wheel as such, as a somewhat similar one has been used, but operating in a different way from ours; but what we claim as new, and desire to secure by Letters Patent, is, we claim the combination and arrangement of the smooth revolving pressure plate or wheel H, with the convex toothed wheel E, and guard plates *i* and *j*, when constructed and operating substantially in the manner and for the purposes above set forth and described."

No. 22,596. James Wansbrough, of Southwark, county of Surrey, England, for an "Improvement in hydrofuze fabrics."—Patented in England, 13th December, 1853.

"Having now described the nature of my said invention, and in what manner the same is to be, and may be performed, I would remark, in conclusion, that I do not claim the exclusive use of any of the materials, matters, or substances, above-mentioned and referred to; neither do I claim the coating or covering of a woven fabric with a flock material, as the same has already been done for many years though without the desired result in point of durability and utility; but, what I claim, and desire to secure by Letters Patent, is, securing the flocks or other finely divided substance after it has been sifted or spread on to the surface, and callendered by applying to the surface thereof a solution of india rubber or allied gum, substantially as described. And I also claim, in combination with the method of securing the flock, substantially as described, the subjecting of the same to a steaming process, substantially as and for the purpose specified."

No. 22,597. Ross Winans, of Baltimore, Md., for an "Improvement in locomotive engines."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the blast equalizing pipe, proportioned to the chimney, and arranged substantially as herein set forth. I likewise claim a blast pipe of less diameter than the smoke pipe, and having a bell mouth, in combination with an exhaust nozzle and the bottom on which the sparks lie, substantially as herein set forth."

No. 22,598. Geo. Windle, of Edenburgh, Va., for an "Improved surveying instrument."

"Claims.—What I claim as my invention, and desire to secure by Letters Patent, is, 1st, attaching the adjusting weight of the magnet case directly to the universal joint on which said case turns and swings, substantially as and for the purposes set forth. 2d, the arrangement of the pointer which designates the number of degrees at which the movable frame and telescope stand adjusted on an adjusting screw, which has the surface of its head graduated so as to indicate minutes, in combination with a stationary pointer, and with an extension formed on the pointer which comes opposite the degrees on the magnet case, substantially as and for the purposes set forth."

No. 22,599. John E. Wootten, of Philadelphia, Pa., for an "Improvement in steam valves."

"Claim.—Having thus fully described the construction and operation of my improved mode of balancing the pressure upon slide valves; what I claim, and desire to secure by Letters Patent, is, the application of the anti-friction roller L, in combination with a diaphragmatic piston D, or an equivalent therefor, substantially as and for the purpose herein set forth."

No. 22,600. Wm. E. Worthen and John J. Althause, of New York, N. Y., for an "Improved mode of constructing slats for blinds."

"Claim.—What we claim as our invention, and desire to secure by Letters Patent, is, a sheet metal blind slat or luffer board, made up of the combination of a slit tube, with two thicknesses of sheet metal; the whole being substantially such as herein before specified."

No. 22,601. Wm. S. Worthington, of Newtown, N. Y., for an "Improvement in apparatus for evaporating.

"I do not claim broadly any arrangement of fires and flues for heating the sides without heating the bottoms of evaporating pans; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of a series of two or more grated fire places *a*, *b*, *c*, and communicating passages *f*, *g*, and flues *h*, *h*, in a casing C, on each or either side of a pan or train of pans, substantially as and for the purpose herein set forth."

No. 22,602. Moses G. Farmer, of Salem, Mass., assignor to Wm. F. Channing, of Boston, Mass., for an "Improved electro-magnetic apparatus for setting water engines in motion."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the combination of an electro-magnetic escapement with the cock or water valve *k*[1], and with the detent Q, of a water engine, separately or conjointly, for the purpose of controlling its motion from a distance, especially in its application to a fire alarm telegraph. 2d, I claim the employment of two or more arms of progressively increasing weight, in combination with a water engine and with an electro-magnet, or its equivalent, for the purpose of releasing machinery as set forth, the first of the weighted arms being liberated by the electro-magnet, while the last one of the series releases the machinery, each of the weighted arms being returned to its normal position by the action of the water engine."

No. 22,603. Joseph R. Gates, of Indianapolis, Ind., assignor to himself and Alexr. Corey, of Shelbyville, Ind., for an "Improvement in automatic grain scales."

"Claim.—What I claim, and desire to secure by Letters Patent, is,—1st, the lever *h* and spring *q*, when used for the treble purpose of operating the cut-off gate *r*, discharging or loosening the bottom valve *l*, and preventing the weights *e* and *f* from raising the scale box C, and drawing the slide *r* until the bottom *l* is closed, thereby regulating the cut-off and flow of grain without using the weight of the grain while the same is being weighted. 2nd, the combination and arrangement of the spring and weight *m* with the elbow con-

necting rod *j* and lever *i*, when constructed and operated substantially as and for the purposes described."

No. 22,604. Geo. Kenny, of Milford, N. H., assignor to himself and Josephus Baldwin, of Nashua, N.H., for an "Improved mode of attaching thills to axles."

"I do not claim encompassing the bolts D in elastic tubes, irrespective of the particular arrangement herein shown and described; but having thus described my invention, what I claim as new, and of my invention, and desire to secure by Letters Patent, is, the combination of the pressing and locking india-rubber tube E with the eyes *a*, *a*, *b*, and bolt D, with its nut *e*, substantially in the manner and for the purposes above described."

No. 25,605. James Lyon, of New York, N.Y., assignor to Jesse J. Davis, of said New York, for an "Improvement in machines for sawing marble."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the reciprocating bar *d*, adjustable rollers *f*, *f*, adjustable frames *g*, *g*, and diagonally slotted slides *h*, *h*, in relation to each other and to parts that connect with and guide the saws, for the purposes and substantially as specified."

No. 22,606. Thos. J. Mayall, of Roxbury, Mass., assignor to himself and Geo. N. Davis, of Boston, Mass., for an "Improvement in manufacture of emery wheels and sticks."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the employment of hard vulcanized rubber tempered with olive oil, as set forth, in combination with powdered emery, or its equivalent, for the manufacture of polishing wheels and sticks, as specified."

No. 22,607. Thos. J. Mayall, of Roxbury, Mass., assignor to himself and Benjn. F. Cooke, of Boston, Mass., for an "Improvement in elastic draw bar and bumper."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the above described combined draw bar and bumper, consisting of the elastic cylinder E, the heads A, A^2, bars B, springs *d*, and bolt K, constructed and operating in the manner substantially as herein set forth."

No. 22,608. Thos. Windell, of New Albany, Ind., assignor to J. B. Ford, James W. Shield, and H. L. Bridwell, of said New Albany, for an "Improvement in mowing machines."

"The nature of my invention consists in the arrangement of the spring, as described, at the outer guard, and also in the employment and arrangement of the box which connects the gearing of the machine. Claims.—Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, the employment, in connection with a single frame piece A^1 of the box D^1, which is cast in the manner herein specified, with axle P, journal bearings *t* and *u*, and flanges *s*, s^1, in one piece, for the purpose of connecting and securing all the gearing necessary for the operation of the machine, as herein fully set forth. 2nd, the spring *c*, secured at one end to the front of the outer guard, and playing freely in the opening in the rear of said guard, in combination with the adjusting screw *o*, whereby the convexity of the spring shoe is increased and diminished with the elevation or depression of the cutter, in the manner and for the purpose described."

No. 22,609. Wm. Wright, of New York, N. Y., assignor to himself and Frederick Wright, of said New York, for an "Improvement in gas burners."

"I do not claim the reduction of excessive pressure in gas burners by so constructing the burners as to cause the gas to be intercepted and divided into small streams, and to pass in a circuitous direction, as I am aware that there are many gas burners so constructed; but I claim, and desire to secure by Letters Patent as an improved article of manufacture, a gas burner provided with a double-flanged cup C, having openings (*d*, *d*, *e*, *e*,) and otherwise constructed, substantially as herein shown and described."

No. 22,610. Ernest Otto Pohl, of Philadelphia, Pa., for an "Improved method of enabling moving railroad trains to telegraph their own passings at certain stations."

"Claim.—I confine my claim to the particular apparatus described in this specification and illustrated in the accompanying drawings, and what I claim as my invention, and desire to secure by Letters Patent, is, the use of a self-acting electro-magnetic railway alarm telegraph, acting reliably of itself, without the necessity of human intervention, and arranged and operating in the manner and for the purposes substantially as above described."

No. 22,611. F. O. Degener, of New York, N. Y., for an "Improvement in printing presses."—Antedated 11th July, 1858.

"Claim.—So arranging or hanging an oscillating bed with an oscillating platen in such manner that the motion of one will control the action of the other, so that by their forward movement they shall close and give an impression, and upon their reverse movement the form shall be inked and the platen be brought into the proper position necessary for the reception of the sheet, and thus alternate from one of their positions to the other. 2d, I claim the arrangement of an oscillating bed and platen as described with the cam to cause the frisket to assume the desired position, so as to hold the sheet of paper while it is being conveyed from one position to the other, all of which is hercin described."

Re-issues.

Lucius J. Knowles, of Warren, Mass., for an "Improvement in safety indicator for steam boilers."—Patented 10th February, 1857.—Re-issued 11th January, 1859.

"Claims.—A feed apparatus controlled by expansion and contraction, in combination with an expansion 'tell tale' placed below the desired water level and above the level to which it would not be safe for the water in the boiler to descend, substantially as set forth. Secondly, I claim the within-described arrangement of the vessels, and as applied and connected with the feed pumps and steam whistle for the purpose of regulating the pump and sounding an alarm as set forth. Thirdly, I claim connecting the pipe with the boiler by means of the feed pipe, as set forth, for the purpose described."

Edward F. Jones, of Boston, Mass., for an "Improvement in lamps."—Patented 4th May, 1858.—Re-issued 11th January, 1859.

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, securing the chimney to the removable deflector, and both of them to the lamp cap by means of a spring operating in the manner substantially as set forth. 2d, I claim a detached deflector in combination with a chimney, when the chimney is secured to the cap independently of the deflector as set forth."

Designs.

S. W. Gibbs, of Albany, N. Y., assignor to Evan Backus, of Stuyvesant, N. Y., for a "Design for parlor stoves."

"Claim.—What I claim as original, and desire to secure by Letters Patent, is, the combination of ornaments and ornamental configuration of the different plates of parlor Franklin stoves as described and set forth in the accompanying drawings."

Thaddeus Davis, of New York, N. Y., for a "Design for ink bottles."

"Claim.—What I claim as new, and desire to secure by Letters Patent, is, the general configuration of the parts to form a new and original design for an ink bottle."

Additional Improvement.

Albert Heth and Gaylon Hall, of Adams Centre, N. Y., for an "Improved cross-cut sawing machine."—Patented 24th August, 1858.—Additional improvement dated 11th January, 1859.

"Claims.—What we claim as new, and desire to secure by Letters Patent, is, attaching the bar or beam to the vertical bar by a pivot, and securing the bar or beam, and beam, in a proper relative position with each other, by means of the rod, loop, and nut, or their equivalents, so that the bar or beam may be more or less inclined according to the thickness of the log and the bar always retained in a vertical position. We further claim, in combination with the oscillating platform, lever, and saw-bar, the bar, provided with an adjustable weight, and arranged substantially as shown to operate as and for the purpose set forth."

List of Specifications, &c. published during the week ending 28th January, 1859.

No.	Price.	Subject-Matter.
1355	3*d.*	Manufacture of charcoal.
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1416	3*d.*	Manufacture of hats.
1417	1*s.* 6*d.*	Machinery for warping yarns or threads.
1418	10*d.*	Gas apparatus.
1419	7*d.*	Steam boilers and furnaces.
1420	9*d.*	Manufacture of horticultural buildings, &c.
1421	3*d.*	Dyeing and printing cotton, &c.
1422	6*d.*	Governors for steam engines, &c.
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1424	6*d.*	Pistons and plungers.
1425	6*d.*	Manufacture of shaft couplings.
1426	1*s.* 1*d.*	Apparatus for stretching and drying woven fabrics.
1427	3*d.*	Fitting ships' water-closets.
1428	9*d.*	Machinery for the manufacture of friction matches.
1429	10*d.*	Machinery for the manufacture of bolts and rivets.
1430	3*d.*	Railway signals.
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1432	3*d.*	Obtaining printing surfaces.
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1434	3*d.*	Mounting and fitting wheels and axles to carriages, &c.
1435	3*d.*	Fire arms and ordnance, &c.
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1437	3*d.*	Plating ships or batteries with iron or steel.
1438	10*d.*	Horse-hoes, &c.
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1443	3*d.*	Implements for cultivating land and depositing seed.
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1445	3*d.*	Sash bars.
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1447	11*d.*	Machinery for the manufacture of healds for looms.
1448	7*d.*	Boxes or caddies for coffee, tea, &c.
1449	8*d.*	Electric telegraphs.
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Numbers of Visitors for the Week ending 29th January, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Jan. 24	Monday -	254	485	739—Fine.
„ 25	Tuesday -	188	411	599— „
„ 26	Wednesday	149	101	250— „
„ 27	Thursday -	122	—	122— „
„ 28	Friday -	96	—	96— „
„ 29	Saturday -	170	—	170— „
	Total -	979	997	1976

Total number of visitors since the period of free daily admission (12th May, 1858) to 29th January, 1859, —62,216.

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Crewe (*Railway Station*).
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Dublin (*Royal Dublin Society, Kildare Street*).
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——— (*Camp Field*).
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THE

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No. 531. FRIDAY, FEBRUARY 4, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2438. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "An improved system of railway brakes."—A communication from Claude Arnoux, residing at Paris.

On his petition, recorded in the Office of the Commissioners on the 2nd day of November, 1858.

2740. To RICHARD LAMING, of Hayward's Heath, in the county of Sussex, for the invention of "Improvements in purifying gas, and in turning sulphuretted hydrogen carbonic acid and ammonia, or their compounds, to profitable account."

On his petition, recorded in the Office of the Commissioners on the 1st day of December, 1858.

2962. To FREDERICK WILLIAM TURNER, of Foxhole Colliery, Swansea, in the county of Glamorgan, Mechanical Engineer, for the invention of "Improvements in steam engines, condensers, and steam boilers, and in promoting combustion in the furnaces of the same."

On his petition, recorded in the Office of the Commissioners on the 27th day of December, 1858.

2968. To ABRAHAM LYONS, of the firm of Jacob Lyons and Sons, of Finsbury, in the county of Middlesex, for the invention of "Improvements in travelling bags."

On his petition, recorded in the Office of the Commissioners on the 28th day of December, 1858.

8. To JAMES WALKLAND, of Green Lane, Sheffield, in the county of York, Silver-Piercer, for the invention of "An apparatus for lighting cigars and tobacco."

18. And to ISAAC WOOD, of Charing Cross, for the invention of "Improvements in cutting and finishing corks, and in machinery used for such purposes."—A communication from abroad by Henry F. Cox and Alexander Millar, of New York.

On both their petitions, recorded in the Office of the Commissioners on the 1st day of January, 1859.

106. To WILLIAM BENNETTS, of Tuckingmill, in the county of Cornwall, Workman, for the invention of "Improvements in mechanism used for preventing accidents when raising or lowering skips, baskets, or apparatus, particularly applicable to mines."

117. And to WILLIAM WILSON, of Newcastle-on-Tyne, Hat Manufacturer, for the invention of "Improvements in machinery for felting bodies of hats and bonnets."—A communication from abroad by J. S. Taylor, of Danbury, Connecticut, United States of America.

On both their petitions, recorded in the Office of the Commissioners on the 13th day of January, 1859.

128. To JOSEPH ECCLES, of Blackburn, in the county of Lancaster, Cotton Manufacturer, for the invention of "Improvements in the manufacture of articles from clay earths for building purposes, as substitutes for such articles as are usually formed of stone and other materials."

130. To POLYNICE AUGUSTE VIETTE, of No. 25, Faubourg de Schaerbeck, near Brussels, a Major in the service of His Majesty the King of the Belgians, for the invention of "Certain inks applicable for engraving and lithographic purposes."

132. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in the manufacture of cast steel."

134. And to ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the inven-

tion of "An improvement or improvements in the manufacture of cast steel."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of January, 1859.

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136. To THOMAS EDWARDS, of Liverpool, in the county of Lancaster, Gas Engineer, for the invention of "Improvements applicable to letter boxes and other like receptacles."

138. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W. C., for the invention of "Improvements in machinery or apparatus for sowing seed."—A communication from Constant Beure and Edouard Barret, resident at Grand-Sancey, département du Doubs, in the empire of France.

140. To SAMUEL THOMAS COOPER, of Upper Clapton, in the county of Middlesex, Gentleman, for the invention of "Improvements in the use and application of artificial light."

142. To EDWARD BROOKS, of 43, Edward Street, Dorset Square, in the county of Middlesex, Locksmith, for the invention of "Improvements in locks."

144. And to GEORGE COLLIER and JOHN COLLIER, both of Halifax, in the county of York, for the invention of "Improvements in means or apparatus for washing and drying wool and other fibres, part of which improvements is also applicable for other purposes, where steam, hot water, or other fluids are required to be conveyed under pressure through moveable connections."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of January, 1859.

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146. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A new machine for putting-on, equalizing, and drying the colors on paper for hangings, bookbinding, boarding, and fancy paper of every description."—A communication from J. P. Faure, residing in Paris, in the empire of France.

147. To WILLIAM NEWMAN, of Aston, near Birmingham, in the county of Warwick, Brassfounder, for the invention of "New or improved furniture for window and other blinds."

148. To JOHN FOSTER, of Lancaster, in the county of Lancaster, Corn Merchant, for the invention of "Certain improvements in machinery or apparatus called 'spinning frames' and 'roving frames' employed for spinning and roving flax, tow, hemp, jute, and other fibrous substances."

149. To GEORGE HAMILTON, of Liverpool, in the county of Lancaster, Professor of Chemistry, Queen's College, Liverpool aforesaid, for the invention of "Improvements in treating rosin and resinous substances to obtain products therefrom, and in treating the products obtained from rosin and resinous substances."

150. To HENRY GALLON, JOSEPH HENRY BEAN, and SAMUEL LUMB, of Leeds, Machine Makers, for the invention of "Improvements in machinery for slotting, morticeing, tenoning, and cutting wood, iron, and other substances."

151. To CHARLES DICKSON ARCHIBALD, of Rusland Hall, in the county palatine of Lancaster, England, Engineer, at present being in the city of New York, United States of America, for the invention of "Generating force."—A communication from Henry Munro Paine, residing at Worcester, Mass.

152. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for the invention of "An improved silk thread, and a new fabric made entirely or partially from the same."—A communication from C. Depoully, senior, residing at Paris.

153. To RICHARD GARRETT, junior, of Leiston Works, Saxmundham, in the county of Suffolk, and JAMES KERRIDGE, Foreman to Messrs. Garret and Sons, of Leiston Works aforesaid, for the invention of "An improved arrangement of combined thrashing and dressing machine."

154. To JOHN FAWCETT, of Kingston-upon-Hull, in the county of same town, Merchant, for the invention of "An improved preparation of food for cattle and horses."

155. To RICHARD BRADLEY and WILLIAM CRAVEN, of Westgate Common Foundry, Wakefield, in the county of York, Engineers, for the invention of "Improvements in machinery or apparatus for manufacturing bricks, tiles, and other similar articles."

156. To WILLIAM TROTTER, of South Acomb, in the county of Northumberland, Farmer, for the invention of "Improvements in reaping machines."

157. And to JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in air pistols and guns."—A communication from Jacques Louis Lemaire Daimè, residing at Paris, in the empire of France, Merchant.

On their several petitions, recorded in the Office of the Commissioners on the 18th day of January, 1859.

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159. To WILLIAM AUGUSTUS FREDERICK POWELL, of Bristol, in the county of Somersetshire, Potter, for the invention of "Improvements in stopping or closing jars and bottles."

161. To THOMAS CLARKE, of Litchurch Lane, near Derby, in the county of Derby, and of Staveley, in the county of Derby, Moulder, for the invention of "Improvements in the manufacture of core barrels for piles or columns used either for railway piles or columns, or for water pipes or sewerage pipes."

162. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W.C., for the invention of "Improvements in machinery or apparatus for measuring and sorting silk and other textile materials."—A communication from Jules Veyrin, Silk Merchant, residing at Lyons, in the empire of France.

163. To JAMES WHITEHEAD, of Halifax, in the county of York, Wire Manufacturer, for the invention of "Improvements in the means or machinery for the manufacture of purled wire."

164. To Ebenezer Stevens, of 5, Patriot Row, Cambridge Road, in the county of Middlesex, for the invention of "An improved cooking utensil."

165. To Thomas Andrew Evans, of 15, Queen's Road, Bayswater, and Walter James Handscombe Rodd, of 38, Arlington Square, Islington, Artist, for the invention of "A new method of advertising."

166. To William Poupard, of Blackfriars Road, in the county of Surrey, Engineer, for the invention of "An improved wheel-skid or shoe."

167. And to John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Certain improvements in the manufacture or production of lasts, boot-trees, and clogs, and in the machinery and apparatus employed in the production of such articles."—A communication from Jules Mathieu, residing at Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 19th day of January, 1859.

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170. To James Croft Reid, of Liverpool, in the county of Lancaster, Master Mariner, and William Milner, of the same place, Manufacturer, for the invention of "Certain improvements in the construction of ships and vessels."

171. To Harvey Hilliard and Thomas Chapman, Cutlery Manfacturers and Patentees of the "Furbator," of Glasgow, in the county of Lanark, North Britain, for the invention of "Improvements in table knives, and in table-knife sharpeners."

172. To Abraham Lindo, of Batignolles, in the French empire, Chemist, for the invention of "Improvements in manufacturing soap."

173. To William Woofe, of the city of Gloucester, Agriculturalist, for the invention of "Improvements in implements for ploughing, tilling and paring land."

174. To Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W. C., for the invention of "Improvements for preventing incrustation in steam boilers or other vessels."—A communication from Herr Von Langen Royal, Architect, residing at Berlin, in the kingdom of Prussia.

176. To Samuel Phillips, of Moseley, in the county of Worcester, Gentleman, for the invention of "Improvements in sliding sashes, shutters, or doors."

177. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved apparatus for measuring water and other liquids."—A communication from Mr. Alfred Nobel, Engineer, of Paris, in the empire of France.

178. To Thomas Greenwood, John Batley, and Jacob Dockray, of Leeds, in the county of York, Machinists, for the invention of "Improved machinery for converting hemp and flax fibres into yarn, twine, ropes, and cordage."

179. To Joseph Bent, of Newhall Street, Birmingham, in the county of Warwick, Military Ornament Manufacturer, for the invention of "Certain improvements in clasps or fastenings applicable for belts, garters, and other purposes."

180. To James Shanks, of Arbroath, in the county of Forfar, North Britain, Machinist, for the invention of "Improvements in mowing machines."

181. To Josiah Latimer Clark, of Haverstock Hill, and John Muirhead, of Gloucester Road, Regent's Park, both in the county of Middlesex, for the invention of "Improvements in electric telegraphs, and in the apparatus used in working the same."

182. And to Henry Sagar, of Broughton, near the city of Manchester, in the county of Lancaster, Bleacher and Dyer, and Alexander Schultz, of Paris, in the kingdom of France, and of the city of Manchester aforesaid, Chemist, for the invention of "Improvements in producing pink shades on cotton fabrics or yarns."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of January, 1859.

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183. To Thomas Richardson, of 20, New Bridge Street, Newcastle-on-Tyne, for the invention of "Improvements in the manufacture of manure."

184. To Samuel Osler, of Great Yarmouth, in the county of Norfolk, and John Barton Balcombe, of Brixton, in the county of Surrey, Gentleman, for the invention of "Improvements in apparatus for treating fish, so as to adapt it for manure, and in using the same alone or in combination with super-phosphate of lime or other phosphates."

185. To Louis Le Prince, of No. 261, Regent Street, in the county of Middlesex, Bootmaker, for the invention of "The improvement of ladies boots and shoes, called the caméleon boot and the caméleon shoe."

186. To George Bell Harkes, of No. 1, Montague Terrace, Trinity Square, Southwark, in the county of Surrey, for the invention of "An improved machine for washing, wringing, and mangling."

187. To George Ellis, of No. 4, Collier Street, Pentonville, in the county of Middlesex, Merchant for the invention of "The improvement of muffs, to be called the patent reticule muff."

188. To John Hick and William Hargreaves, of Bolton-le-Moors, in the county of Lancaster, Engineers, trading under the firm of Benjn. Hick and Son, for the invention of "Improvements in the construction of steam boilers."

189. To Richard Howell, of Smethwick, in the county of Stafford, Gas Fitter, and Richard James Willder, of Birmingham, in the county of Warwick, Hatter, for the invention of "An improvement or improvements in taps or stop cocks."

191. To William Wells, of Greenland, near Halifax, in the county of York, Cotton Spinner, for the invention of "Improvements in machinery or apparatus employed in spinning and twisting cotton, and other fibrous substances."

192. To Alfred Davenport, of Birmingham, in the county of Warwick, Gas Purifier Manufacturer, for the invention of "An improved regulating burner for gas."—A communication from Henry Woodward, residing at New York, in the United States of America.

93. To James Childs, of Windsor House, Windsor Road, Putney, in the county of Surrey, for the invention of "An improvement in applying heat in the manufacture of artificial gums and teeth, and other articles composed of india rubber, or gutta percha, combined with sulphur."

194. To James Hill Hume, of Broughty Ferry, in the county of Forfar, North Britain, Baker, for the invention of "Improvements in warming apparatus for the feet."

195. To André Jacques Amand Gautier, Jean Gilbert Dumay, Jean Theodore Persin, of Paris, France, Gentlemen, for the invention of "An improved manure."

197. To James Newman, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in the manufacture of chains."

198. To Bernard Lauth, late of Pittsburgh, State of Pennsylvania, U. S. A., but now residing at Surrey Street, in the city of Westminster, Mechanician, for the invention of "An improved mode of, and improved machinery for, rolling plates, bars, rods, and shafts."

199. And to John Edwards, of No. 77, Aldermanbury, in the city of London, for the invention of "Improvements in the manufacture of buckles."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of January, 1859.

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201. To David Moseley, of the Chapel Field Works, Ardwick, in the city of Manchester, Manufacturer of India Rubber and Gutta Percha, for the invention of "Improvements in the manufacture of india-rubber thread."

203. To Edward Dorsett, of 76, Old Broad Street, in the city of London, Tar Distiller, and John Bennington Blythe, of Minerva Place, New Cross, in the county of Kent, Merchant, for the invention of "Improvements in the distillation of oil from coal tar, and in apparatus for preserving timber therewith."

205. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved machinery for cutting files."—A communication from Milton D. Whipple, of the United States of America.

207. And to Christian Sharps, of Philadelphia, in the State of Pennsylvania, United States of America, Manufacturer of Fire-arms, for the invention of "Improvements in breech-loading repeating fire-arms."

On their several petitions, all recorded in the Office of the Commissioners on the 22nd day of January, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

4th February, 1859.

1781. Evan Leigh, of Manchester, in the county of Lancaster, Mechanical Engineer, for an invention of "Improvements in machinery or apparatus for preparing and spinning flax, wool, silk waste, or other fibrous materials."—Dated 5th August, 1858.

1788. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the manufacture of lace."—Dated 5th August, 1858.

1791. George Hinton Bovill, of Durnsford Lodge, Wimbledon, in the county of Surry, for an invention of "Improvements in the manufacture of gas, also in the manufacture of coke and other fuel."—Dated 6th August, 1858.

1797. John Walker, of City Road, in the county of Middlesex, Engineer, for an invention of "Improvements in the manufacture of electric telegraph cables."—Dated 7th August, 1858.

1804. James Walker, of Glasgow, in the count- of Lanark, North Britain, Engineer, for an inveny tion of "Improvements in machinery or apparatus for moulding or shaping metals."—Dated 7th August, 1858.

1818. Alfred Barchou, of Number 49, Saint Augustin's Road, Camden Town, in the county of Middlesex, Working Jeweller, for an invention of "Improvements in the mode of fastening the soles and heels of boots and shoes."—A communication from a Foreigner residing abroad.—Dated 10th August, 1858.

1821. Francois Haeck, of Schaerbeck, near Brussels, in the kingdom of Belgium, Gentleman, for an invention of "Improvements in the construction of cocks, taps, or valves."—Dated 10th August, 1858.

1835. Jacques Henri Marie Maissiat, of Paris, in the empire of France, Chemist, for an invention of "Improvements in wheels."—Dated 12th August, 1858.

1864. Louis Alexandre Forot, Merchant, of 2, Rue Sainte Appoline, Paris (empire of France), and of 45, Essex Street, Strand, London, for an invention of "A new mode of ornamenting fabrics, and in the apparatus connected therewith."—Dated 14th August, 1858.

1958. Edward Massey, of Tysoe Street, Clerkenwell, in the county of Middlesex, Ship's Log Manufacturer, for an invention of "Improvements in ships logs."—Dated 30th August, 1858.

2195. Hypolite Monier, from Marseilles, in the empire of France, and from 2, Francis Street, Golden Square, in the county of Middlesex, Manufacturer, for an invention of "A new gas burner."—Dated 2nd October, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 31st January*, 1859.)

273. Edward Schischkar, of Halifax, in the county of York, Manufacturer, for an invention of "Improvements in dyeing and colouring wools, hairs, silks, yarns, and textile fabrics made of the same materials, either wholly or partially."—Dated 1st February, 1856.

279. Andrew Lamb, of Southampton, in the county of Hants, Engineer, and John Ronalds, of the same place, Shipbuilder and Naval Architect, for an invention of "An improvement in the construction of iron ships, boats, and other similar structures."—Dated 1st February, 1856.

419. Charles Scott Jackson, of 18, Cannon Street, in the city of London, Lieutenant in the Royal Navy, for an invention of "An improvement in preserving and disinfecting timber and other substances."—Dated 19th February, 1856.

FOREIGN PATENTS.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1858.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

Note.—The duration of a Patent is fifteen years, except wher determined by that of a previously existing foreign Patent.* e

5350. William Palmer, represented by Perpigna, of 42, Rue Neuve St. Augustins, Paris, for "Improvements in fire-arms."—Dated 25th November, 1858.—(American Patent, expiring 28th October, 1872.)

* For the French Patent Law see No. 228 of this Journal.

5351. François Lebacq, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "A system of horse-shoes."—Dated 26th November, 1858.

5352. Georges Fronton, of 64, Rue Amelot, Paris, for "A mechanical process for making Annonay paper."—Dated 26th November, 1858.

5353. Dominique Artige, of 43, Rue de Grenelle, Grenelle, for "Improvements in steam engines fixed to their furnaces and boilers."—Dated 26th November, 1858.

5354. James Ridsdale, represented by Girard, of 85, Rue de Sèvres, Paris, for "Improvements in fountain penholders."—Dated 26th November, 1858.—(English Patent, expiring 6th October, 1872.)

5355. Hector Grand de Chateaneuf, of 30, Avenue de la Porte Maillot, aux Thermes, for "A smoke-consuming apparatus applicable to gas burners, oil-lamps, and lighting and heating apparatus."—Dated 26th November, 1858.

5356. Edmond Armand Louis Dargy, of 12, Rue du Docteur, Betignolles, a Certificate of Addition to his Patent of 20th February, 1858, for "An hydro-rotary blast engine."—Dated 26th November, 1858.

5357. Chevreau-Lorrain, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A lighting apparatus with a supplementary wick."—Dated 26th November, 1858.

5358. Aimé Delpech, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 26th April, 1852, for "A force and lift pump."—Dated 26th November, 1858.

5359. Pierre Guillaume, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A piston cock protector."—Dated 26th November, 1858.

5360. Joseph Petit-Gudenchet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 23rd August, 1858, for "Textile and filamentous substances for conveying electricity."—Dated 26th November, 1858.

5361. Courage and Bennett, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in furnaces for smelting, reducing, and calcining ores, scoria, and their residues."—Dated 26th November, 1858.—(English Patent, expiring 24th November, 1872.)

5362. Jacques Auguste Bourguet, of 22, Petite Rue St. Pierre, Paris, for "Manufacture of plates of cast porcelain paste with relief castings, applicable to decorating furniture, bronze, and to other purposes."—Dated 26th November, 1858.

5363. Laubenière, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 20th June, 1857, for "Manufacture of kneed-axles for locomotives, &c."—Dated 27th November, 1858.

5364. Jean François Ernest Hallié, of 83, Rue d'Enfer, Paris, for "Modifications in the arrangements of rails with respect to their strength

and the passage of trains thereon."—Dated 27th November, 1858.

5365. Remond Lenoir, of 8, Rue Baillif, Paris, for "Improvements in the manufacture of shirts."—Dated 27th November, 1858.

5366. Pierre Victor Reclus, of 14, Rue du Temple, Paris, a Certificate of Addition to his Patent of 21st August, 1858, for "An alarum."—Dated 27th November, 1858.

5367. Nicolas François Corbin-Desboissières, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Atmospheric and mixed fireplaces, applicable to reverberatory furnaces and apparatus heated at a high temperature, to steam-boilers, and to domestic purposes."—Dated 27th November, 1858.

5368. Pierre Paul Hulin, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Manufacture of metallic powder, and applying the same to industrial arts."—Dated 27th November, 1858.

5369. Léonard Schémitt, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in puzzle-boxes applicable to cigar-cases, liqueur-cases, &c."—Dated 27th November, 1858.

5370. Jacques Lacombe, represented by Poitout, of 85, Rue Ménilmontant, Paris, for "A mechanical process for engraving and engine turning."—Dated 27th November, 1858.

5371. Aléxandre Félix Ouarnier, of 45, Rue des Vinaigriers, Paris, for "Improvements in the manufacture of cartridges for breech-loading guns."—Dated 27th November, 1858.

5372. Lister and Warburton, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in spinning."—Dated 27th November, 1858.—(English Patent, expiring 26th May, 1872.)

5373. Martin and Legraud, the former of La Chapelle, the latter of Bercy, for "A self-acting manometer cock."—Dated 27th November, 1858.

5374. Brun Brothers, Son, and Denoyel, of 25 et 27, Rue des Jeuneurs, Paris, for "A kind of tournure petticoats."—Dated 27th November, 1858.

5375. Louis Jules Brandt, represented by Bieler, of 5, Rue Bonaparte, Paris, for "An apparatus for manufacturing oil for watches."—Dated 29th November, 1858.

5376. Berthier and Berger, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Manufacture of alcohol from the residue of breweries."—Dated 29th November, 1858.

5377. Jules Joseph Adolphe Very, of 43, Cours de Vincennes, St. Mandé, for "Combined toilet and chest of drawers."—Dated 29th November, 1858.

5378. Paul François Breuillé, of 61, Faubourg Montmartre, Paris, for "An india-rubber money box."—Dated 29th November, 1858.

5379. Lollier and Gueneau, of 27, Rue Descartes, Paris, for "An aerial pop-gun."—Dated 29th November, 1858.

5380. Marie Cruchet, of 4, Rue des Filles du Calvaire, Paris, for "Smoking pipes with a mechanical motion."—Dated 29th November, 1858.

5381. Charles Renault, of 58, Rue de la Chaussée d'Antin, Paris, for "Improvements in curtain rods of windows."—Dated 29th November, 1858.

5382. Jacques Grassay, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 14th October, 1858, for "Making hose of canvass imbibed with tar and bitumen."—Dated 29th November, 1858.

5383. Victor César Auguste Priqueley, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of wooden turrel pins with screws."—Dated 29th November, 1858.

5384. Joseph Bernachon, of 29, Rue Breda, Paris, for "A calking plinth."—Dated 29th November, 1858.

5385. Herbert William Hart, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Apparatus for regulating the pressure of gas."—Dated 29th November, 1858.—(English Patent, expiring 29th January 1872.)

5386. Jacques Elidat de Malbec, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 25th January, 1855, for "A plain obturator or closing apparatus."—Dated 29th November, 1858.

5387. François Schmitz, of 1, Rue de Poissy, Paris, a Certificate of Addition to his Patent of 29th March, 1858, for "Improvements in the treatment of peat."—Dated 30th November, 1858.

5388. Gabriel Marie Valentine Verpy, of 55, Rue Vivienne, Paris, for "A kind of bonnets."—Dated 30th November, 1858.

5389. Charles Joseph Eugène Dumont, domiciled with Grand Jean, of 28, Rue Neuve Coquenard, Paris, a Certificate of Addition to his Patent of 27th August, 1858, for "An apparatus for carbonizing gas."—Dated 30th November, 1858.

5390. Furcy Amédée Marlette, of 36, Rue des Trois Couronnes, Paris, for "Rocking or lever buttons."—Dated 30th November, 1858.

5391. Paul Vié, of 157, Rue de l'Université, Paris, for "A machine for the manufacture of screw foot coverings."—Dated 30th November, 1858.

5392. Leconte and Doudet, domiciled with Baurain, of 72, Rue Notre Dame des Champs, Paris, for "A system of locks."—Dated 30th November, 1858.

5393. Sicard and Ferrand, the former of 46, Rue du Chemin Vert, the latter of 71, Rue Popincour, Paris, for "Manufacture of castors of bedsteads."—Dated 30th November, 1858.

5394. Montigny and Lespinasse, of 52, Rue Jean-Goujon, Paris, for "A system of mechanical stoppering by means of a pressure obtained by screws."—Dated 30th November, 1858.

5395. Ralph Peacock, represented by Grandchamp, of 23, Rue Lenostre, Rouen, département de la Seine Inférieure, for "An apparatus for rendering furnaces smoke-consuming or regulating the combustion therein."—Dated 1st December, 1858.

5396. Pierre Paul Castaing, of 10, Rue Baronie, Toulouse, département de la Haute Garonne, for "A machine for dressing hats."—Dated 2nd December, 1858.

5397. Nicolas Marin, of Troyes, département de l'Aube, a Certificate of Addition to his Patent of 6th January, 1858, for "A game of geography for teaching children."—Dated 4th December, 1858.

5398. Jean Baptiste Adolph Dugléré, of 25, Rue de la Sourdière, Paris, a Certificate of Addition to his Patent of 22nd November, 1853, for "An apparatus for emptying cespools, &c."—Dated 30th November, 1858.

5399. Claude Gavioli, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 25th October, 1855, for "A mechanism for playing the flute, &c."—Dated 30th November, 1858.

5400. Claude Gavioli, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of organs."—Dated 30th November, 1858.

5401. André Désiré Oursel, of 197, Rue St. Antoine, Paris, a Certificate of Addition to his Patent of 22nd July, 1858, for "A system of gas apparatus."—Dated 30th November, 1858.

5402. Pierre Emile Martin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th June, 1858, for "An apparatus worked by means of the reaction of water, air, &c."—Dated 30th November, 1858.

5403. Gombeau and Royer, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 10th July, 1858, for "A mill for grinding barley, &c."—Dated 30th November, 1858.

5404. Victor Constant Lieuvain, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Machines for winding off skeins of yarns."—Dated 30th November, 1858.

5405. Emile Gaspard Gratin Lazeu, of 24, Rue Muller, Montmartre, for "A decimal calculating apparatus for demonstrating the nature of numbers, for showing the respective place of the units of the various orders, for always obtaining the exact total sum of additions, for initiating children into the rules of subtraction, by teaching them the rules of addition, and, lastly, for marking points at games."—Dated 30th November, 1858.

5406. Terreil and Chateau, the former of 7, Rue Guy-la-Brosse, Paris, the latter of Ivry, for "A process for purifying the acetic acid obtained in distilling organic substances, wood, coal, &c., and for separating said acid from the tar with which it is mixed."—Dated 1st December, 1858.

5407. Alphonse Honoré Antheaume, of 97, Rue de la Verrerie, Paris, for "Using a vacuum apparatus for concentrating caramel in general."—Dated 1st December, 1858.

5408. Thomas Louis Augustin Lemaitre, of 83, Bois de Romainville, Bagnolet, for "A system of bells or clock-work, applicable to railways'"——Dated 1st December, 1858.

5409. Joseph Nicolas Royer, of 47, Rue Grenetat, Paris, a Certificate of Addition to his Patent of 2nd October, 1858, for "A machine for preparing waddings for dresses." — Dated 1st November, 1858.

5410. Jean François Quétel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of machines for planing and grooving friezes of inlaid floors."—Dated 1st November, 1858.

5411. Roquincourt and Dorot, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Applying aniline to industry." — Dated 1st November, 1858.

5412. Jean Faivre, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in vitreous substances, and in substances which are polished by means of emery."—Dated 1st December, 1858.

5413. Adolphe Oppenheimer, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in portemonnaies, cigar-cases, &c."—Dated 1st December, 1858.

5414. Louis Aléxandre Boité, represented by Richard, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 28th August, 1857, for "Improvements in the arrangement and manufacture of chafing pans or feet-warmers."—Dated 1st December, 1858.

5415. Jean René Delabarillère, of 21, Rue Neuve des Petits Champs, Paris, for "A liquid for the hair."—Dated 1st December, 1858.

5416. Auguste Colas, of 21, Rue Vielle de St. Germain, Courbevoie, for "A machine for assembling the various parts of wheels."—Dated 1st December, 1858.

5417. Hippolyte Adrien Mutelle, of 42, Rue Miromesnil, Paris, a Certificate of Addition to his Patent of 4th March, 1851, for "A system of wheel tyres."—Dated 1st December, 1858.

5418. Bernard Bienfait, of 1, Rue Bourbon-Villeneuve, Paris, for "A kind of legs of boots and half-boots."—Dated 1st December, 1858.

5419. Jean Severin Leroy, of 3, Place du Théâtre, Grenelle, for "Currying leather."—Dated 1st December, 1858.

5420. Messrs. Fontaine, of 40, Rue du Petit-Lion, Paris, for "A mode of cutting gloves."—Dated 1st December, 1858.

5421. Daniel Caille, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A process for preserving wine for conveyance."—Dated 1st December, 1858.

5422. Adrien Jacques Charles Maurice, of 61, Rue du Faubourg St. Martin, Paris, for "A system of arm-chairs for railways."—Dated 1st December, 1858.

5423. Marc André Baudit, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in mounting buckles for sword-belts, belts, garters, &c."—Dated 1st December, 1858.

5424. Jean Pierre Marie Delille, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A substance for preventing incrustations in steam boilers."—Dated 1st December, 1858.

5425. Marie Louis Valentin Piette, of 16, Rue de Rivoli, Paris, for "A steam apparatus for purifying paste."—Dated 1st December, 1858.

5426. I. F. Colfs-Heyne, represented by Langlois, of 43, Rue des Marais St. Martin, Paris, for "A

system of railway chairs and rails."—Dated 1st December, 1858.

5427. Amans de Chavagneux, of 58, Quai de la Migesserie, Paris, for "A system of arranging wefts for weaving fabrics."—Dated 2nd December, 1858.

5428. Alfred Charles François Van Ackere, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "So-called 'Imperial counters' (for games."—Dated 2nd December, 1858.

5429. Pierre Bruno Joseph Eli Cabanes, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 8th July, 1856, for "Improvements in bolting machines."—Dated 2nd December, 1858.

5430. Hippolyte Jean Picard, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in plaster-mills."—Dated2ndDecember, 1858.

5431. Jacques Michel Mackiewiez, of 30, Quai d'Orléans, Paris, for "Capsules for medicamental substances."—Dated 2nd December, 1858.

5432. Pierre Louis Eugène Pros, domiciled Rue et Hotel Marsolier, Paris, for "An alimentary substance."—Dated 2nd December, 1858.

5433. Candelot alias De Fulgens, of 24, Rue St. Honoré, Paris, a Certificate of Addition to his Patent of 3rd May, 1858, for "A chemical compound for obtaining waterproof coatings."—Dated 2nd December, 1858.

5434. Veron and Flantin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An expansion stereoscope."—Dated 2nd December, 1858.

5435. Laumonier and Burdel, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of flacon called 'library flacon.' "—Dated 2nd December, 1858.

5436. Messrs. Gillot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A moveable caoutchouc clasp for portemonnaies, pocketbooks, &c."—Dated 2nd December, 1858.

5437. Moxon, Clayton, and Fearnley, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in looms for weaving carpets, and other looped and pile tissues." —Dated 2nd December, 1858.

5438. Edouard Joseph Dezalleux, of 3, Impasse Rivoli, Belleville, for "A machine for putting corn into the mill hopper."—Dated 2nd December, 1858.

5439 Bonnet Frédéric Brunel, represented by Claye, with Bourgeois, of 4, Rue de Mulhouse, Paris, for "A process for manufacturing Prussian blue."—Dated 3rd December, 1858.—(English Patent, expiring 27th September, 1870.)

5440. Michel Monin, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A combined trunk and cushion."—Dated 3rd December, 1858.

5441. Seevolo Dupuis, of 188, Rue d'Allemagne, Sapetite-Villette, for "A so-called 'oscillating cutting machine.' "—Dated 3rd December, 1858.

5442. Pierre Louis Eugène Pros, domiciled Rue et Hôtel Marsolier, Paris, for "An alimentary substance."—Dated 3rd December, 1858.

5443. Ludovic Charles Adrien Joseph Guyot d'Arlincourt, of 3 bis, Rue de la Bruyère, Paris, for "A telegraph apparatus."—Dated 3rd December, 1858.

5444. Joseph Emile Humbert, of 5, Rue St. Martin, Paris, a Certificate of Addition to his Patent of 14th October, 1858, for "A constant and economical battery."—Dated 3rd December, 1858.

5445. Crisol Fauconnier, of 15, Avenue Parmentier, Paris, for "An application to the upper floors of covered stations, &c., and a system of turntables."—Dated 3rd December, 1858.

5446. Chantrel, Calvet, and Liebermann, the former of 43, Rue de Clichy, Paris, a Certificate of Addition to their Patent of 4th December, 1857, for "A water meter."—Dated 3rd December 1858.

5447. Jean Hyacinthe Salières, of 61, Rue de la Verrerie, Paris, for "A system of tubular spherical gridirons."—Dated 3rd December, 1858.

5448. Augustin Lebourg, of Gassetot-le-Mauconduit, département de la Seine Inferiéure, for "A rocking carriage."—Dated 3rd December, 1858.

5449. Jean Fréderic Schmutz, of 2, Rue du Renard-Prêchant, Strasbourg, département de Bas Rhin, for "A machine for crushing colours."—Dated 4th December, 1858.

5450. Hyacinthe Barthez, of 29, Rue Argenterie, Montpellier, for "Toilet-vinegar called 'vinegar of Alcibiades.' "—Dated 4th December, 1858.

5451. Louis Passot, domiciled with David, of Dijon, département de la Côte d'Or, for "A machine for the manufacture of nails for shoeing horses, mules, &c."—Dated 4th December, 1858.

5452. Frédéric Giroud d'Argoud, of 14, Rue du Commerce, Lyon, département du Rhône, a Certificate of Addition to his Patent of 13th April, 1858, for "A system of grinding and baking, &c."—Dated 6th December, 1858.

5453. Trénée Leduc, of 2, Rue du Faubourg-Croncels, Troyes, département de l'Aube, a Certificate of Addition to his Patent of 25th May, 1858, for "A sewing machine."—Dated 6th December, 1858.

5454. Henry Henson-Henson, William Frédéric Henson, represented by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, a Certificate of Addition to their Patent of 29th September, 1858, and expiring 24th September, 1872, for "A system of waterproofing leather, and fibrous, cotton, and other stuffs."—Dated 6th December, 1858.

5455. Paul Emile Gratien Lécorney, of 31, Rue de l'Orme, of Malzéville, near Nancy, département de la Meurthe, for "An embroidery stitch, called 'flower stitch.' " — Dated 7th December, 1858.

5456. Tolijon, represented by his Wife, of 40, Place de Beaune, Châlon, département de Saône et Loire, a Certificate of Addition to his Patent of 24th January, 1856, for "A composition imitating marble, &c."—Dated 7th December, 1858.

5457. Gilles Senat, of 94 and 96, Rue Lecoq, Bordeaux, département de la Gironde, for "A machine for pumicing varnished leather."—Dated 7th December, 1858.

5458. Charles Desurmont and Goudeau, of Seclin, département du Nord, a Certificate of Addition to their Patent of 15th September, 1858, for "A weaving apparatus."—Dated 8th December, 1858.

5459. Charles Anciot, of 50, Rue d'Elbeuf, Rouen, département de la Seine Inférieure, for "Reeds with stiff heddles for weaving machines."—Dated 3rd December, 1858.

5460. Louis Marque, of Vienne, département de l'Isère, for "A safety musrole or nose-band for subduing fiery horses."—Dated 4th December, 1858.

5461. Poissant, Caillaux, and Gauguier, of Amiens, département de la Somme, for "Processes and machines for thoroughly decorticating grain."—Dated 16th December, 1858.

5462. Emile Pavy, of Girardet, département d'Indre et Loire, for "An economical granary or apparatus for preserving grain."—Dated 6th December, 1858.

5463. Camentron, Despax, and Bordanave, of Daix, département des Landes, for "A mechanism worked by pedals for skidding carriages." Dated 6th December, 1858.

5464. Joachim Gueyton, of Valence, département de la Drôme, for "A twilling apparatus for spinning frames."—Dated 6th December, 1858.

5465. Charles Auguste Koehler, of Bitschwiller, département du Haut Rhin, for "A system of fingers of flyers with castors."—Dated 6th December, 1858.

5466. Lalive-Peney, of 10, Rue de la Pyramide, Macon, département de Saône et Loire, for "A system of moveable or immoveable rocking or lever bridges, whereby brick-work and floors are superseded."—Dated 9th December, 1858.

5467. Auguste Lecocq, of Wervicq-Gud, département du Nord, for "A machine for peeling flax."—Dated 9th December, 1858.

5468. Flaissier Brothers, of Nîmes, département du Gard, for "Improvements in the healds of upper warps."—Dated 4th December, 1858.

5469. Flaissier Brothers, of Nîmes, département du Gard, a Certificate of Addition to their Patent of 4th May, 1858, for "Applying velvet designs on short nap tissues, or so-called 'imitation velvet.'"—Dated 4th December, 1858.

5470. Charles Placide Nézeraux, of Matha, département de la Charente, for "An improved distilling boiler, especially for distilling wines."—Dated 6th December, 1858.

5471. Paul Joseph Meslin, of St. Sauveur-sur-Douves, département de la Manche, for "A cylinder press (for liquids)."—Dated 7th December, 1858.

5472. Jean Marie Durafour, of 48, Rue de la Charité, Lyon, département du Rhône, for "Improvements in the manufacture of jewels."—Dated 7th December, 1858.

5473. Gustave de Coninck, of 43, Rue de la Côte, Hâvre, département de la Seine Inférieure, for "Magazines for preserving corn."—Dated 7th December, 1858.

5474. Gustave de Coninck, of 43, Rue de la Côte, Hâvre, département de la Seine Inférieure, for "A regulator or counter for the flow of liquids by means of cocks."—Dated 7th December, 1858.

5475. Frédéric Loquay, of Angoulême, département de la Charente, for "A system of twyers applicable to bellows or ventilators."—Dated 8th December, 1858.

5476. Georges Charmetant, of 17, Rue de Chartres, Lyon, département du Rhône, for "Inodorous water-closets."—Dated 8th December, 1858.

5477. Pierre Garcin, of 7, Rue Monsieur, Lyon, département du Rhône, for "Apparatus for singeing thread or stuffs of silk, wool, or cotton."—Dated 9th December, 1858.

5478. Jean Baptiste Grandry, of 3, Passage Neveu, Faubourg St. Denis, for "Mineral mastic."—Dated 3rd December, 1858.

5479. Adéon Ferandelle, domiciled with Avercene and Collette, of 8, Rue des Vieux Augustins, Paris, a Certificate of Addition to his Patent of 8th November, 1858, for "An hydraulic wheel."—Dated 4th December, 1858.

5480. Guillaume Félix Aroux, domiciled with Desprez and Latour, of 2, Rue de la Feuillade, Paris, for "Processes for sowing and planting in a line without sowing machine."—Dated 4th December, 1858.

5481. François Aléxis Pradalier, of 15, Rue Ficatier, Courbevoie, a Certificate of Addition to his Patent of 18th February, 1858, for "A mechanical cask-game."—Dated 4th December, 1858.

5482. Verliac and Baud, the former of 14, Rue St. Jean, Montmartre, for "A system of moveable hammers."—Dated 4th December, 1858.

5483. Bondoux and Dujat, of 75, Rue du Temple, Paris, for "A box for post stamps, containing a mechanism for issuing the stamps and cutting them at pleasure."—Dated 4th December, 1858.

5484. Henri Raymond, of 130, Rue St. Honoré, Paris, for "A washing machine."—Dated 4th December, 1858.

5485. Messrs. Maréchal, of 12, Rue de Nemours, Paris, for "Applying slides to French window-bolts."—Dated 4th December, 1858.

5486. Valentin Muller, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 21st October, 1858 for "A copying press for travellers."—Dated 4th December, 1858.



HANOVER.*

List of Patents of Invention Delivered between the 1st October and 31st December, 1858.

(*Communicated by the Hanoverian Government.*)

(For preceding List, see No. 510 of this Journal.)

1. L. Kripp, of Celle, for "An apparatus for stopping and disengaging so-called 'weigh-bridges.'"—5 years.—Dated 13th October, 1858.
2. R. Thode, of Hainsberg, near Dresden, for "A machine for grinding paper-pulp."—5 years.—Dated 13th October, 1858.
3. L. Andree and Co., of Magdeburg, for "An apparatus for cutting round matches, for sorting the same, and putting them into frames."—5 years.—Dated 21st October, 1858.
4. Benjamin Nadault de Busson, of Paris, for "Filtering tubes and improvements in the present mode of filtering, and for cleaning filtering apparatus."—5 years.—Dated 21st October, 1858.
5. Timpe, of Rheine, for "A machine for the manufacture of tiles."—5 years.—Dated 12th November, 1858.
6. Friedrich Siemens, of Berlin, for "Improvements in so-called 'regenerators for smelting and reheating furnaces, and for other purposes.'"—5 years.—Dated 14th November, 1858.
7. Julius von Sparre, of Eisleben, for "A new method of separating granular substances of a different specific gravity."—5 years.—Dated 15th November, 1858,
8. F. A. Andrée, of Essen, for "A mechanism for working rudders of vessels by means of a combined muscular and spring power."—5 years.—Dated 20th November, 1858.
9. Heinrich Mehrtens, of Bremerhafen, for "A sewing machine."—5 years.—Dated 14th November, 1858.
10. Luigi Ferrari Corbelli, of London, for "A method of obtaining aluminium."—5 years.—Dated 16th December, 1858.
11. E. Schmidt, of Heidelberg, for "An apparatus for preserving beer."—5 years.—Dated 16th December, 1858.
12. Fr. Bödeker, of Hanover, for "Improvements in sewing machines."—5 years.—Dated 22nd December, 1858.
13. Keutel, of Eisleben, for "A kitchen range."—5 years.—Dated 22nd December, 1858.
14. Captain Sleeboom, of Hamburg, for "Construction of keels of vessels, whereby vessels or ships are prevented from driving to leeward."—5 years.—Dated 27th December, 1858.
15. W. A. Schrödter, of Breslau, for "A system of extracting clear wort from amylaceous plants by means of a centrifugal triturating process, likewise for a new steam apparatus for meshing and cooling."—5 years.—Dated 27th December, 1858.
16. Fr. Töbelmann, of Osnabrück, for "A glass sieve for washing coke, coals, sand, ores, and other substances."—5 years.—Dated 27th December, 1858.
17. F. Willmer, of Hanover, for "A machine for rasping dye-wood."—5 years.—Dated 27th December, 1858.
18. Karwiesé, of Graudenz, for "An apparatus for stopping fiery horses and skidding the wheels of carriages at the same time."—5 years.—Dated 31st December, 1858.

* For the Hanoverian Patent Law, see No. 231 of this Journal.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 18th January, 1859, and each bearing that date.

No. 22,612. R. L. Allen, of New York, N. Y., for an "Improvement in potato diggers."

"I am aware that the dirt-sifting wings of potato-digging plows are common, and therefore do not claim them; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the removable wings *b*, *c*, with the double mould board, substantially as set forth. I also claim the arrangement and combination of the central or dividing bar *a*, with the standard C, by means of the notched fastening *e* and d^1, substantially as set forth."

No. 22,613. Wm. J. Alston, of Williamson County, Tenn., for an "Improved ring lock."

"Having thus described my improvement in 'ring locks,' what I claim therein as new, and desire to secure by Letters Patent, is, the friction springs, arranged substantially as described, in combination with the inner rings of the lock, for the purpose set forth."

No. 22,614. Stephen R. Andres, of Troy, N. Y., and Saml. Andres and McDonough Bucklin, of New York, N. Y., for an "Improvement in apparatus for drying grain, malt, &c."

"We do not confine ourselves to the precise form of our machine described in this specification, as the same may be changed without changing the character of our invention, what we claim as our invention, and desire to secure by

Letters Patent, is, the use or employment of a blast or current of hot air introduced into the cylinder through a hollow journal or its equivalent, when said current of hot air is brought into direct contact with the substance to be dried thereby, in combination with a cylinder made adjustable to any angle as described."

No. 22,615. Ernst Bagnicki, of New York, N. Y., for an "Improvement in syringing apparatus."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of a chair, substantially as described, and containing a pump, with an arrangement of the valve chambers, in the manner and for the purpose substantially as specified."

No. 22,616. John Barker and Edwd. W. Barker, of Baltimore, Md., for an "Improved amalgamator."

"We do not confine ourselves to the precise arrangement or form, or construction of the parts as described, as other forms and arrangements may be used in carrying out the principles of our improvements; having thus described our improvements in amalgamators, what we claim therein as new, and desire to secure by Letters Patent, is, First, the combination of a set of crushing or attrition rollers, with an upper and lower rubber, arranged substantially as described for the purpose set forth. Second, we also claim introducing an independent current of water into the amalgamator, substantially as described, so as to flow around the lower end of the feed pipe, and meet and mingle with the inflowing current of material, for the purpose as set forth. Third, in combination with the rollers, we claim constructing the lower rubber hollow, with openings to admit the quicksilver into the interior, for the purpose as set forth. Fourth, constructing the lower rubber with a vertical passage through its centre, arranged substantially as described, for the purpose set forth. Fifth, the combination of the concave plate, arranged substantially as described, with the rollers, for the purpose of directing the inflowing current to the centre and between the rollers. Sixth, constructing recesses on the interior of the casing, over the journals, arranged substantially as described, for the purpose set forth."

No. 22,617. James F. Beckwith and Adin G. Gage, of South Alabama, N. Y., for an "Improvement in seed planters."

"Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is, the arrangement of the tooth O, discharge spout L, coverers I, hoppers B, B, frame piece A, A, lever F, and bar D, substantially in the manner and for the purpose herein fully set forth."

No. 22,618. Wm. H. Bell, of Washington, D. C., for an "Improvement in self-primer for fire-arms."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, First, the combination of the shield *f*, plunger *i*, spring *k*, and screw head *h*, in the manner described, with the magazine chamber *b*, for the purposes set forth. Secondly, the arrangement and combination of the pin *n* on the piston, *i* and slot *m*, in the shield *f*, with the slot *o*, in the side of the hammer, for the purpose specified. Thirdly, the removable guard plate *q*, as arranged and operated for the purposes set forth."

No. 22,619. Peter Born, of New York, N. Y., for an "Improved sofa frame."

"What I claim as new, and desire to secure by Letters Patent, as a new and improved article of manufacture, is, a complete frame of a sofa, made of thin layers of wood, in the manner substantially as herein specified."

No. 22,620. Jules Joseph Henri Brianchon, of Paris, France, for an "Improvement in composition for ornamenting glass."

"Claim.—The yellow coloring composed of resin, nitrate of uranium, essence of lavender, and the flux of bismuth; also the orange-red coloring, composed of resin, nitrate of iron, essence of lavender, and the flux of bismuth; also the imitation gold coloring, composed of the above described orange-red coloring, and the yellow coloring mixed together, with additional parts of the preparation of uranium and iron; also, the variegated prismatic coloring, composed of ammoniuret or cyanuret of gold, or gold dye, turpentine, essence of lavender, the bismuth flux and uranium; also the mother of pearl coloring, composed of the bismuth flux, the flux of lead, chloride of antimony, resin, lavender or other essence, and colophony; all of the above colorings being made and applied in the manner and in proportions substantially as herein set forth."

No. 22,621. Reuben R. Brown, of Buffalo, N. Y., for an "Improvement in lubricating compounds."

"I claim a lubricator made of the ingredients, and in the proportions substantially as herein set forth."

No. 22,622. W. G. Bulgin, of West Jersey, Ill., for an "Improvement in seeding machines."

"I am aware that rotary coulters I, have been previously used; and also levelers F, or their equivalents; seed distributing devices, similar to the serrated plate C, have also been used; but I am not aware that the parts have been arranged relatively with each other, to operate as herein shown. I claim, therefore, as new, and desire to secure by Letters Patent, the rotary coulter I, leveler F, with share H' attached, and harrow teeth K, arranged relatively with respect to each other, and to a seed box A, provided with a suitable seed distributing device, so as to operate substantially as and for the purpose set forth."

No. 12,623. Abner L. Butterfield, of West Dummerston, Vt., for an "Improved wind wheel."

"I am aware that collapsible sails for wind wheels have been previously used; and I am also aware that valves have been employed and arranged, similar to those herein shown and described. I therefore, do not claim broadly, the sails E, nor the valves; but I do claim as new, and desire to secure by Letters Patent, attaching the sails E, to the frames D, of the arms C, substantially as shown, so as to permit of a self-lateral adjustment of the same, and using the catches *o*, and slides *g*, with cords attached for respectively locking the sails and freeing them from the locks or catches, substantially as described."

No. 22,624. Geo. Churchill, of Hartford, Conn., for an "Improvement in belt clasps."

"What I claim and desire to secure by Letters Patent, is, the combination of the plates A, A', pins B, screws F, as and for the purpose described."

No. 22,625. John Clark, of Williamsburgh, N. Y., for an "Improved mode of operating window blinds."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching toothed flanches *d* or pinions to the tenons c^1 of the slats C, and having the flanches or pinions gear into a sliding rack bar D, placed in the stile B of the blind, and actuated by the pinion *f* and supplemental rack teeth *e*, or their equivalents, substantially as and for the purposes set forth."

No. 22,626. Saml. Colt, of Hartford, Conn., for an "Improved mode of coupling gun-stocks with pistols."

"Having described the construction and operation of my improvement, what I claim therein as new, and desire to secure by Letters Patent, is, the neck piece B^1, with its projecting end B^2, B^2, passing under shoulders in the lock frame, in combination with the holder pins *d*, *d*, and clamping bar *f*, arranged and operating substantially as described, for the purpose set forth."

No. 22,627. Saml. Colt, of Hartford, Conn., for a "Canteen gun stock."

"I do not wish to limit myself to any particularity of construction or kind of material, but claim as my invention, and desire to secure by Letters Patent, so constructing the stock of a gun that it shall constitute a canteen, substantially as described."

No. 22,628. J. M. Connel, of Newark, Ohio, for an "Improved boot-blacking apparatus."

"I make no claim to the construction of brushes of two sections, as shown in several patented knife polishers, but I claim as new, and as an improvement on the patented boot-blacking machine of J. M. and J. Connel, the concave-edged self-adjusting brush wheel B in combination with the spring foot piece F, constructed, arranged, and operating as described."

No. 22,629. G. D. Cotton, of Galesburgh, Ill., for an "Improvement in ploughs."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, combining and arranging together the beam D, the standards *d* and *e*, upright *a*, lever E, brace Z, bar H, axle B, and pole C, said pole reaching forward and resting upon the neck yoke, in the manner and for the purpose herein specified."

No. 22,630. Jesse Cunningham, of Marshall, Mo., for an "Improvement in cultivators."

"I do not claim the reversible bar J with a marker or wheel *g* attached, for such device has been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching the furrow shares H to a swinging frame formed of the shaft E, bar F, and arms *b*, placed in a mounted frame A, in combination with the buttons *c*, *c*, provided with step-like projections *d* for regulating or adjusting the hight or inclination of said share frame, and consequently the depth of the furrows, substantially as described."

No. 22,631. Wm. M. C. Cushman, of Albany, N. Y., for an "Improvement in R. R. chairs."

"What I claim, and desire to secure by Letters Patent, is, the buttress (E, E,) at each end of the outside jaw, flanch, or rib (D), in combination with the same and united thereto, and with the top or bearing surface (*c*), as and for the purposes herein described and set forth."

No. 22,632. Levi S. Deming, of Newington, Conn., for an "Improvement in horse rakes."

"What I claim, and desire to secure by Letters Patent, is, the combination of the fingers B, shaft or axle A, cam F, and lever G, these several parts being constructed, arranged, operated, and operating in the manner described, for the purpose specified."

No. 22,633. L. J. Dickason and John Frazee, of Georgetown, Ohio, for an "Improved spoke machine."

"What we claim as our invention, and desire to secure by Letters Patent, is, 1st, the within-described mode of operating the cutter frame J, with its cutters K, and also the emery wheel *h*, and its frame L, so as to throw them all clear of the spoke S^1, after the operation of turning and smoothing, that is to say, we claim the employment of the two arms R^1, R^{11}, upon the shaft R, operated by means of a hand lever R^{111}, in the manner and for the purposes set forth. 2d, we claim the adjustable spring rests N^1, N^{11}, when arranged and operating in the manner and for the purposes set forth. 3rd, we claim the spring arm *n*, spring catch m^1, pitman n^1, and bent lever n^{11}, in combination with the lever K^{11}, clutch I, and rod *l*, all arranged and operating so as to throw the pulley wheel H in and out of gear with the shaft G substantially in the manner and for the purposes herein set forth."

No. 22,634. Richd. Doble and M. Angelo Starr, of Richmond, Ind., for an "Improved machine for making printers' rules."

"What we claim as our invention, and desire to secure by Letters Patent, is, the combination of the graduated plates H, H, having arc-formed and radial graduations, and the guide bars J, J, with their clamping screws *g*, *g*, and screw clamps *h*, *i*, *h*, *i*, the whole applied, arranged, and operating, substantially as described, in relation to the saw D, for the purpose herein set forth."

No. 22,635. Wm. W. Draper, of Greenfield, Mass., for an "Improvement in file handles."

"I do claim the application of jaws to tool handles; nor do I claim the above described mode of operating such jaws; but what I do claim is the centralizing socket, or socket piece and spring, in combination with the handle and the fastening jaws, and their operative mechanism applied within the said handle, the whole being made to operate, substantially in manner as herein-before described."

No. 22,636. Chas. Escudier, of Pattersonville, La., for an "Improvement in bathing apparatus."

"What I claim as my invention, and desire to secure by Letters Patent, is, the new application in bathing apparatus of two boilers, and steam pipe connected thereto, affording when united, an apparatus for the application of whatever kind of bath may be desired."

No. 22,637. James D. Foster, of Montgomery, Ala., for an "Improvement in ox yokes."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, constructing the bows B of four parts *a*, *a*, *b*, b^1, the parts *a*, *a*, being permanently attached to the stock A, and the parts *b*, b^1, attached by hinge joints *c*, *c*, to the parts *a*, *a*, and provided with a fastening C, substantially as and for the purpose set forth."

No. 22,638. Ambrose Foster and Harvey Brown, of New York, N. Y., for an "Improvement in machinery for moving rail-road cars on railways."

"We do not claim the moving of cars on rail roads, by stationary power and an endless rope or chain, for that is an old device, but our improvement consists in the mode of attaching to and moving the cars, by means of the devices above set forth, in which we claim, first, the rope supporter H, constructed and arranged substantially in the manner and for the purposes set forth. Second, we claim the sliding rods E, with the coiled springs F attached, or their equivalent, for the use and purpose set forth. Third, we claim the grab or catch G, constructed, arranged, and operated, substantially in the manner and for the purposes set forth."

No. 22,639. J. Fraser, of Rochester, N. Y., for an "Improved vegetable cutter."

"What I claim as my invention, and desire to secure by Letters Pantent, is, the combination of the eccentric rod *k*, arranged substantially as described, with the pivoted or adjustable bed B, which bears the knife G, for the purposes herein specified."

No. 22,640. Hugh Gerred, of Sparta, Ill., for an "Improved cattle pump."

"I do not claim broadly a valvular bucket attached by a pulley to a platform, irrespective of the arrangement of the parts herein shown and described, for such device has been previously used, and may be seen in the device of Jared Ayers, patented April, 1856, but I do claim as new, and desire to secure by Letters Patent, the arrangement and combination of the guides *f*, bucket D, (the latter having a valve *c*, clasp *d*, and spring *e*,) the trough F, platform E, and wheels (*m*, *l*, *i*, *g*,) as and for the purposes herein shown and described."

No. 22,641. Henry Goulding, of San Francisco, Cal., for an "Improved steam valve."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, supplying the working cylinder of the engine or machine, each successive stroke with its impelling gas or vapor, from reservoirs previously charged therewith, and under the control of a valve or valves, essentially as set forth, the same serving as a substitute for a 'cut-off' to work the gas expansively, in the manner described. 2nd operating a valve, in part or in whole, by the gas or steam, at full pressure, from the supply pipe acting to propel it in the one direction, when the same is used in concert with an opposing force, to the valve, produced by the expansion of the gas in its passage to or performance of its work, substantially as specified. 3rd, the combination of the valve B and valve cylinder or case A, with its reservoirs E, F, and the several inlets or outlets for action together, in the manner described, and whereby the one valve B is made to govern the ingress and egress of the gas to or from the reservoirs, as well as to control the inlet and exhaust of the working cylinder, as herein set forth."

No. 22,642. Rensselaer D. Granger, of Philadelphia, Pa., for an "Improvement in heating apparatus."—Ante-dated 24th November, 1858.

"I do not claim broadly an air chamber situated in a casing and exposed to the action of the fire within the same, as such a device has been heretofore used; but I claim, and desire to secure by Letters Patent, combining the air chamber G with the separate perforated chamber H, having an independent communication with the air, substantially as herein set forth, so that the said perforated chamber may serve the double purpose of consuming the gases arising from the ignited fuel, and of preventing the rapid destruction of the bottom of the chamber G by the action of the fire."

No. 22,643. Rensselaer D. Granger, of Philadelphia, Pa., for an "Improvement in coal stoves."—Ante-dated 24th November, 1858.

"I claim, and desire to secure by Letters Patent, hanging within the stove and immediately above the fire a perforated chamber H, when so constructed and arranged that the air shall have free access to the interior of the said chamber, and when the latter shall admit of being readily raised and lowered, or its position in regard to the fire, otherwise altered, for the purpose specified."

No. 22,644. Robt. Gray, of Anson, Me., for a "Fish trap."

"What I claim as my invention, and desire to secure by Letters Patent, are, the strainer (Fig. 3), the vibrating slats T, T^1, and the V-shaped chambers V, V^1, all in the manner and for the purposes substantially as set forth in the above specification."

No. 22,645. Benjn. F. Grinnell, of New York, N. Y., for a "Fastening for breast pins, &c."

"I claim, and desire to secure by Letters Patent, the permanent hook D and spring E, in combination with the hinged pin C of a breast pin or other article of jewellery, when the spring is so bent as to direct the pin, when the latter is depressed, into the hollow of the hook, and when the spring and hook are otherwise arranged in respect to each other, substantially as herein set forth."

No. 22,646. John H. Griscom, of New York, N.Y., for an "Improvement in house ventilation."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of an auxiliary flue or tube, connecting the hot-air flue with the ventilating flue, in the manner and for the purpose proposed."

No. 22,647. John M. Hall, of Warrenton, Ga., for an "Improvement in cotton cultivators."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with the series of adjustable revolving hoes, the scrapers K, K, in advance of them, substantially in the manner and for the purpose described."

No. 22,648. Lyman P. Harris, of Mansfield, Ohio, for an "Improvement in apparatus for evaporating saccharine juice."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1, the stationary, yet portable, fire-place B, with its stops C, C, and springs H. 2, I claim the portable movable, and inclined furnace A, and its combination with the stationary fire place. 3, I claim the handles M, and their springs L, and their combination with the springs H, also the rod F, or its equivalent. 4, I claim the racks O, and their combination, also the movable flue or plate P, and its rod R, and their combinations with the movable furnace A, and stationary fire place B. 5, I do not claim the heater 8, nor evaporator 10, as my invention; but I claim as an improvement, the application of one or more strainers 2 and valves 1 to the heater and evaporator."

No. 22,649. Theodore Heermans, of Mitchellsville, Tennesee, for an "Improvement in coffee roasters."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the within specified arrangement of the plates or shelves D, D^1, for the purposes set forth. 2nd, the combination of a window or windows in one or both ends of a coffee roaster, with the inclined elevating plates or shelves, substantially as and for the purposes set forth."

No. 22,650. John L. Hoag, of Genoa, Ill., for an "Improvement in corn planters."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, the arrangement and combination of the arm (*g*), lever K, and bar H, said lever serving as an oblique brace to hold the bar H, (as is shown in Fig. 2,) as and for the purposes set forth. I also claim the arrangement and combination of the lever (*h*), slide (*i*), lever (*j*), upright Q, bar P, and swinging frames O, M, as and for the purposes herein shown and described."

No. 22,651. Mark W. House, of Cleveland, Ohio., for an "Improvement in revolving harrows."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent, is, the combination with the spindle of a revolving harrow, of the cap *e* and box *d*, for the purpose and substantially in the manner described."

No. 22,652. James Hughes and Nathan Stonecipher, of Cambridge, Ind., for an "Improvement in corn planters."

"We claim as new, and of our invention herein, the described arrangement of the gravitating trigger H. connecting rods I, perforated slide F, hoppers *e* and e^1, and scorer D, operating as described, to deposit seed at each pressure and relaxation of the thumb of the driver."

No. 22,653. John H. Irwin, of Carlinville, Ill., for an "Improved cattle pump."

"I do not claim the use of rising and falling platforms, separately considered; but I do claim as new, and desire to secure by Letters Patent, the platforms B, B^1, weight F, drum C, and pulley D^1, placed loosely on drum C, and connected with it by the pall *c* and ratchet *b*, the whole being combined and arranged to operate as and for the purpose set forth."

No. 22,654. Wm. Johnston and Hugh Forbes, of Brooklyn, N.Y., for an "Improvement in composition for lining metal pipes."

"We do not claim inserting an india rubber, gutta percha, or equivalent pipe, previously made into a metallic pipe; nor do we claim the apparatus by which it is applied; but what we claim, and desire to secure by Letters Patent, is, the composition of matter, substantially as set forth, for lining metallic or other pipes or surfaces of a similar kind, substantially as set forth."

No. 22,655. Wm. F. Ketchum, of Buffalo, N.Y., for an "Improvement in harvesters."

"Having thus described my invention, and some of its advantages, I will remark that I do not here claim the use of a cap or an opening in the guard tooth, generally to prevent clogging; but I claim the combination of the openings in the guard tooth below the cutters, with the caps above the cutters, substantially as described."

No. 22,656. Henry A. Landry, of Camden, N. J., assignor to R. G. Ransford, of Troy, N. Y., for an "Improvement in R. R. chairs."

"What I claim as my invention, and wish to secure by Letters Patent, is, the improvement of a projecting piece of metal, either cast on the rail-road chair, or made of wrought iron or steel, and affixed, and rising up alongside of the rails on railroads, where two rails meet, and of sufficient height to receive all or a part of the weight of the machinery, while passing over that particular part of the rails, as herein described, disclaiming any right to any particular form or pattern of chair to which my improvement may be applied."

No. 22,657. Wm. Layland, of Mixerville, Ind., for an "Improvement in car couplings."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the combined adjustable latch and catch (F, T,) when constructed and operated substantially as herein described for the purposes set forth.

No. 22,658. Joseph Leeds, of Philadelphia, Pa., for an "Improvement in ventilating registers."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a register, the hanging of the valve A by its center, as shown, so as to make said valve a regulator or cut-off to the ascending current of air from N to M, and at the same time a regulator of the ingress or the egress of air to or from an apartment, and thus causing a register to serve the purpose of a ventilator, as herein described."

No. 22,659. Ferdinand Lehr, of Hoboken, N. J., for an "Improved machine for bending umbrella ribs."

"I do not claim a mandrel around which the wire is bent by a revolving stub, as such mandrel has been affixed to the shaft carrying the revolving stub. In that case, however, difficulty existed in removing the spoke or rib when bent from off the said mandrel, but by my machine the mandrels and bending stubs withdrawing from each other, and the mandrels pulling out of the holes or eyes, this difficulty is avoided. What I claim as my invention, and desire to secure by Letters Patent, is, first, a reciprocating pincer taking the wire from a fixed, and drawing the same through the machine, dropping from said wire, and then returning below to its previous position, so as to be out of the way of the bending or coiling of the wire into eyes or loops, as set forth. Second, I claim attaching said pincers on a traveling carriage by one side thereof, while the power for sliding said pincers lengthwise of the machine is applied to the other jaw, whereby the clamping and releasing of the wire is effected by the act of moving said pincers, as set forth. Third, I claim attaching one end of said pincers on a stud or shaft, in combination with the stops 6 and 7, spring 9, and slotted connecting link *f*, whereby the sliding, clamping, depressing and elevating motions are given to the pincers by the reciprocations of said rod *f*, as set forth. Fourth, I claim the shear *i*, i^1, receiving the compound motion set forth from the cams (*h* and 10), in the manner and for the purpose specified. Fifth, I claim the clamping levers *k*, k^1, in combination with the ledges 13, 14, and shafts *p*, p^1, that press against and hold the wire while the loops are being formed, as set forth. Sixth, I claim the mandrels in combination with the turning shafts and stubs, when the said mandrels are projected from the blocks, or their equivalents, for the wire to be bent around the same to form the loops or eyes in the spokes or ribs, and withdrawn from said eyes when the same have

been bent, substantially as set forth. Seventh, I claim the arrangement of the sliding bar l, and the connections therefrom, to the clamping levers k, k^1, and slides m, m^1, whereby the clamps and mandrels z are simultaneously actuated, as set forth. Eighth, I claim the sliding stocks o, o, carrying the shafts p and turning stubs, for allowing the withdrawal of said stubs out of the way of the traveling pincers, substantially as set forth; and in combination therewith I claim the bar n^1, and connections therefrom to said stocks o, o, for communicating endwise motion to said stock, for the purpose and as specified. Ninth, I claim the sliding mandrel Z^1 and turning shaft p, 2, connected as set forth, in combination with the jaws 32, or their equivalents, for turning the eye or loop in the end of the spoke or rib, as described and shown. Tenth, I claim the arrangement of the cranks q & t, and slotted connecting rods q^1, t^1, for communicating motion successively to the slides r, and u^1, and from the same to the turning stubs or loop formers, as set forth."

No. 22,660. Joseph Mansfield, of Jefferson, Wis., for an "Improvement in milk coolers."

"What I claim as my invention, is, the improved portable milk cooler, when constructed in the manner and for the purpose set forth."

No. 22,661. Richard Mansley, of Philadelphia, Pa., for an "Improvement in hemp brakes."

"I do not claim broadly, the employment in hemp brakes of horizontally moving slides with bars so situated that the hemp may be presented vertically to the machine, as such a device has been heretofore used; but I claim and desire to secure by Letters Patent, operating the horizontal slide D, with its transverse bars, by the cam H, arm G, and spring J, when arranged substantially as described, and when the said spring is so graduated that the slide shall instantly recede, after reaching the limit of its outward movement, as and for the purpose herein set forth."

No. 22,662. Richard Mansley, of Philadelphia, Pa., for an "Improvement in machinery for tarring oakum."

"I claim and desire to secure by Letters Patent, the perforated vessel F, or its equivalent, placed within a stationary vessel D, which contains the compound for tarring oakum, a jet of steam being admitted to the stationary vessel, while a reciprocating motion is imparted to the perforated vessel, as and for the purpose herein set forth."

No. 22,663. Benjn. A. Mason, of Newport, R.I., for an "Improved horse-shoe nail machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the four hammers arranged in pairs, the two constituting each pair being mounted to strike simultaneously and in opposite directions, and the two pairs working at right angles with each other or nearly so, substantially as described and for the purpose set forth. And I also claim the employment of an elastic bush, in the connection of the hammers with the cranks by which they are operated, substantially as and for the purpose set forth."

No. 22,664. Charles Monson, of New Haven, Conn., for an "Improvement in holders for lamps."

"I claim the mode or means substantially as herein-before specified, of counterbalancing the system of levers or lazy tongs, or the same and one or more articles suspended from or supported by them, and this, whether the counterbalance weight be applied so as to push or pull on the levers of the lazy tongs as explained. I also claim the method substantially as described of steadying the tube or rod e, or its equivalent suspended or extending from the lower termination of the system of crossed levers or lazy tongs, viz., by the collar or slide p, the levers o, o, and the connections f, g, applied to the part e, and the lazy tongs, and made to operate essentially as herein-before specified."

No. 22,665. Richd. Montgomery, of New York, N. Y., for an "Improved mode of constructing a combined street pavement and R. R. track."

"Having described my combined pavement and track, what I claim therein as new, and of my invention, and desire to secure by Letters Patent, is, a combined street pavement and rail-road track, constructed substantially as shown and described."

No. 22,666. Henry S. North, of Middletown, Conn., and Edwd. Savage, of Cromwell, Conn., for an "Improvement in revolving fire-arms."

"We are aware that many applications of packing rings or thimbles have been made to breech loading fire-arms, to be acted upon by the force of the explosion, to close the joint between the chamber and breech; and that application has been made to fire-arms of the same kind of a thimble to be acted upon by similar agency, to close a joint between the chamber and barrel. We therefore disclaim entirely the use of rings or thimbles, when not applied as herein described, in combination with a rotating chambered cylinder, having also a longitudinal movement. But what we claim as our invention, and desire to secure by Letters Patent, is, 1st, the employment of the movable cylindrical bushings or thimbles b, b, applied substantially as herein described, within cavities i, i, formed in the front portions of the chambers of a rotating chambered breech, which has a longitudinal movement to operate and be operated upon, substantially as herein specified, in combination with a valve-like seat e, e, which is formed upon the rear of the barrel. 2d, the combination of the slide F, working in the bottom of the cylinder frame A, and the double-jointed trigger guard D, E, part of which constitutes also part of a lever, through whose agency the rotation of the cylinder and cocking of the hammer are effected, the whole operating substantially as and for the purpose herein specified."

No. 22,667. John K. O'Neil, of Kingston, N. Y. for an "Improved wash board."

"What I claim as my invention, and desire to secure by Letters Patent, is, the flexible rubber B, constructed as described, and combined with the wash board A, so that its upward movement shall be assisted by a spring, or its equivalent, arranged substantially as specified."

No. 22,668. Benjn. Payn, of Albany, N. Y., for an "Improvement in coloring and curing tobacco stems."

"What I claim as my invention, and desire to secure by Letters Patent, is, coloring and curing tobacco stems at one operation, by subjecting them to the action of steam, as and for the purposes herein set forth."

No. 22,669. Thos. Payne, of Ridgefield, Conn., for an "Improved clothes sprinkler."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, a clothes sprinkler having an interior self-closing stopper, and made and operating substantially in the manner and for the purpose herein set forth."

No. 22,670. Saml. Pierce, of Troy, N. Y., for an "Improvement in furnaces."

"Having fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is, the series of detachable or removable heat radiating plates J, J, constructed with points or stems a, a, projecting from their surfaces, both of the surfaces being radiating surfaces, in the manner and for the purposes substantially as herein described. Also, in combination with a horizontal fire box and fire chamber, and the outer casing K, I claim a series of plane heat radiating plates, or a series of corrugated heat radiating plates, arranged substantially in the manner and for the purposes as herein described."

No. 22,671. Saml. F. Pratt, of Roxbury, Mass., for an "Improved carpet sweeper."

"I claim, in combination with the case A and the rotary brush B of a carpet sweeper, a serrated or toothed clearer E, applied so as to cleanse the brush, during and by its revolutions. I also claim the arrangement of serrated or toothed clearers on opposite sides of the brush, in order that it may be cleansed while being rotated in either direction. I also claim the arrangement of the serrated clearer, in the case of the carpet sweeper, in such manner, that the said clearer shall form part of or be maintained by the dust receptacle. I do not claim the application of a single elastic tired driving wheel to the driving wheel affixed on the brush shaft; but claim the arraugement of two of the elastic tired wheels on opposite sides of the driving wheel of the brush shaft, as described, and so applying the said shaft in the case, and to the fork of the handle, as to enable the brush wheel to be forced in close contact with its drivers, not only when the machine is moved in either direction, but by the force exerted through the handle, and to so move the machine, the same ensuring the rotary motion of the brush, whenever the machine may be in the act of being moved on and over a carpet."

No. 22,672. R. B. Prindle, of Coventry, N. Y., for an "Improved mode of attaching thills to vehicles."

"Having thus fully described my improved method of attaching shafts to vehicles &c., what I claim as new, and desire to secure by Letters Patent, is, the flange on the bolt

or pin, so made and inserted that it cannot be removed when the joint is varied from the position in which the bolt is introduced."

No. 22,673. Wm. W. Purdy, of Liverpool, Ohio, for an "Improvement in rolling and pressing wool."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of the sectional rollers I and I¹, with the straps F and breast piece E, for the purpose of rolling and pressing fleeces of wool, as herein described."

No. 22,674. John W. Riggs, of New York, N. Y., for an "Improvement in truss springs."

"I claim constructing springs for trusses in the manner and for the purposes substantially as set forth herein."

No. 22,675. E. K. Root, of Hartford, Conn., for an "Improved method of packing cartridges."

"Having fully described my improved method of packing or holding cartridges, and not wishing to confine myself to any exact shape of package, peculiar mechanical construction of box or arrangement therein of the cartridges and caps, what I claim as new, and desire to secure by Letters Patent, is, packing or putting up cartridges between two blocks, or their equivalents, substantially as herein-before described. I also claim forming in the package or holder, herein-before described, a receptacle or receptacles for containing caps or other primings, substantially as described."

No. 22,676. John F. Seaman, of Clyde, N.Y., for an "Improvement in seeding machines."

"I do not claim the distributing device formed of seed cells *f*, made in a cylindrical head *e*, in connection with cut-off brushes *h*, for this is an old and well-known device, neither do I claim broadly rotating covering shares, irrespective of the construction and arrangement herein shown; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, operating the seed distributing device, by means of the part *b* of the handle C¹, attached by a pivot *d* to the other part *c* of said handle, and connected at its lower end to the shaft E by a cord or chain *i*, the above parts being used in connection with the spring F, attached directly to the other handle C of the implement, and to the shaft E by a cord or chain *k*, the whole being arranged substantially as and for the purpose set forth."

No. 22,677. Solomon Shetter, of Allegheny, Pa., for an "Improved horse-shoe machine."

Having thus described my improvement and its operation, what I claim as of my invention, and desire to secure by Letters Patent of the United States, is,—First, the curved arms (*w* 1) of clamps (*s*), moved and operated by the friction rollers (2) and the backward and forward movements of table (*c*), when the clamps (*s*) are used in connection with the dies (*t*) and (*w*), as herein described, and for the purpose set forth. Second, the use of the flexible strip (*n*), for the purpose of operating the clearer (*u*) as herein described, and for the purpose set forth. Third, the arrangement on the upper surface of table (*c*) of ties (*t* and *w*), springs (*x*), the under jaw (*v*) of the shears, and the clearer (*u*), when used and operated in connection with the clamps (*s*), friction rollers (2), roll (*t* 1), shear (*d*), and swage (*f*), as herein described, and for the purposes set forth."

No. 22,678. Stephen Wm. Smith, of Brooklyn, N.Y., for an "Improved sweeping machine."

"Having thus described my improved machine for sweeping carpeted and other surfaces, I will state what I claim, and desire to secure by Letters Patent,—First, I claim the combination of the gears F and G, with the driving wheel, constructed and operating substantially as described, and for the purposes specified. Second, the method of adjusting the brush by the plate K, which admits of both vertical and lateral adjustment, as described and specified. Third, I also claim preventing the escape and rising of the dust by means of the flexible curtain L, arranged and operating substantially as described and specified."

No. 22,679. Benjn. F. Smith, of New York, N.Y., for an "Improvement in manufacture of white lead."

"What I claim as my invention, and desire to secure by Letters Patent, is, the manner of filling the chamber with metallic lead by means of the open work tables or racks, in which the lead in detached pieces rests, arranged one above the other in successive and close series, substantially as described, and whereby a more thorough and equal circulation of the fumes or gases amongst the lead is produced. I also claim constructing the converting chamber with an inclined bottom, substantially as and for the purposes set forth. I also claim the method herein described, of extracting from the converting chamber, the carbonate of lead and other incidental products, by means of a current or currents of water passing through said chamber from top and bottom, substantially in the manner and for the objects herein set forth. I also claim subjecting the carbonate of lead and other incidental products previous to their extraction from the converting chamber to the action of steam, substantially in the manner and for the purpose specified."

No. 22,680. Ferdinand M. Sofge, of Columbus, Ga., for an "Improvement in horse power."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the cogged wheel A, having the supporting flange No. 1, and the wheel B, with corresponding cogs and bearing revolving upon the supporting ring I, the whole constructed and operating substantially as and for the purpose above set forth."

No. 22,681. P. P. Stewart, of Troy, N. Y., for an "Improvement in cooking stoves."

"What I claim as my invention of improvements on the well known return flue stove herein specified is, in combination with a stove, such as described, making the front plate of the oven open with doors, and an apron to receive and hold a tin kitchen or roaster, substantially as specified, that the heat radiated by the front plate of the fire chamber may be aided by the heat radiated by all the oven plates, as specified, when combined with an end door, whereby the draught may be controlled without the aid and independent of the front doors. And I also claim the boiler having a removable cover, and two inclined flues, which are separate at the lower end united into one at top to connect with the chimney, substantially as described, in arrangement with the exit flue space to which the boiler is fitted, and into which the gaseous products of combustion are discharged from the series of direct and return flues, substantially as and for the purpose specified."

No. 22,682. W. M. Waggoner, of Middletown, Ind., for an "Improvement in devices for gathering grain into gavels."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the stationary fingers E, E, G, G, and the fly or gathering fingers H, H, attached to a suitable framing or stancheons mounted on wheels, and arranged to operate substantially as and for the purpose set forth."

22,683. Louis B. Wakeman, of Baltimore, Md., for an "Improvement in devices for reefing sails."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the smooth surfaced clamp E, E¹, as described, when in combination with the forked screw bolt 5, or its equivalent, carrying the blocks through which the rolling halyards d^1, d^1, pass, for the purposes set forth. I also claim giving direction to windlass ropes *d*, *d*, by the bent arm *b*, when in combination with the clamp E, E, and forked screw bolt 5, when fitted with an ordinary block, operating in the manner and for the purposes set forth."

No. 22,684. Wm. M. Whiteley and Andrew Whitely, of Springfield, Ohio, for an "Improvement in harvesters."

"What we claim as our invention, and desire to secure by Letters Patent, is, a finger, so constructed that the slot or opening above the cutters shall increase in capacity from front to rear, in combination with the clearing projection described, passing directly into the rear corner of said opening, in the manner described, for the purpose specified. We also claim forming the clearing projections of a bent extension of the cutter, substantially as herein-before described."

No. 22,685. John Young, of West Galway, N. Y., for an "Improvement in R. R. chairs."

"There may be modifications of my construction, therefore, I do not design to confine myself to the precise devices shown; I claim the combination of bearing surfaces *a*, capable of forming any desired angle with each other, and the securing portion a^1 of the chair, substantially as and for the purpose set forth."

No. 22,686. Joseph Bloom, of Philadelphia, Pa., assignor to R. E. Rogers, of said Philadelphia, for an "Improvement in umbrella frames."

"Having thus fully set out my invention, what I claim as new in the construction of umbrella and parasol frames, and desire to secure by Letters Patent, is,—1st, the bow or rib, constructed substantially as described. I am aware that the

bow or rib, and the brace, or sustaining rod, have been attached to collars upon the standard by a piece of metal having an enlarged end affixed to the end of the bow or rib, and a like piece of metal affixed to the end of the brace, the enlarged end fitting into a slit of a sheet metal collar, the flange of which must be swaged down upon the enlarged end, in order to hold it in place, and I therefore do not claim this method; but I do claim, 2d, connecting the bow or rib, and the brace, or sustaining rod, to the collars upon the stem or standard, by the means herein set forth. I am also aware, that the end of the brace or sustaining rod has been connected to the bow or rib, by the end of the brace being riveted to a band, which may be sprung into a groove in the inner surface of the bow or rib, and I therefore do not claim this method of connecting the two parts here named; but what I do claim, is, 3d, connecting the brace or sustaining rod to the bow or rib, by the spring band embracing the bow, as herein set forth."

No. 22,687. Franz Anton Lohage, of Unna, Prussia, assignor to Edmund Leopold Bewzon, of Boston, Mass., for an "Improvement in the manufacture of steel."— Patented in England, 29th January, 1850.

"I would observe that the commencement of the above process, that is, the fusing and boiling the pig iron, is similar to the operation usually carried on in the puddling furnace in the manufacture of wrought iron; I do not, therefore, intend to claim such part of the process; but what I desire to claim as new and of my invention, in the above described process, is, regulating the heat and stopping the decarbonization of the fused mass of metal in the finishing process in the puddling or reverberatory furnace, as set forth, before it becomes converted into malleable or wrought iron, and whereby I obtain steel, in the manner herein specified."

No. 22,688. Nelson Orcutt, of Binghamton, N. Y., assignor to himself and G. W. Gregory, of said Binghamton, for an "Improved paddle-wheel."

"What I claim as my invention, and desire to secure by Letters Patent, is, the centrally suspended paddle or bucket without any stop, means, difference of area, or of weight, for holding it in a working position, but left entirely to the action of the forces exerted upon it during the revolution of the wheel, as herein set forth."

No. 22,689. Hamilton E. Smith, of Philadelphia, Pa., assignor to himself, B. B. Nelson, of Cortland Co., N. Y., and John L. Myers, of Chemung Co., N. Y., for an "Improved grain fan and corn sheller."

"I do not claim, broadly, combining a grain fan and a corn sheller in one instrument; but I claim, and desire to secure by Letters Patent, arranging the spiked roller C and slotted shield D of a corn sheller on the frame of a grain fan, in respect to and in combination with the seive frame E, blower G, and inclined plane J of the said grain fan, in the manner herein described, so that the said blower, sieve, frame, and inclined plane, may serve the purpose of separating the cobs from the shelled kernels of corn, and the latter from the chaff and other refuse."

No. 22,690. Cyrus B. Thayer, of Boston, Mass., assignor to himself and Charles Robinson, of Cambridgeport, Mass., for an "Instrument for turning the leaves of music books, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, the double holding cords E, E, E, elastic springing cords G, G, G, or their equivalents, back B, provided with clamps C, D, and notch or catch *b*, and the curved concentric rod or way F, arranged and operating in connection with and in relation to each other, substantially in the manner and for the purpose herein specified. I also claim the escapement catch H, constructed, arranged, and operating in connection with the curved rod F, and thimble of the holding cords E, E, E, substantially as described."

Re-issue.

Geo. Neilson, of Boston, Mass., for an "Improvement in ventilating window for rail road cars."— Patented 30th May, 1854.—Re-issued 18th January, 1859.

"Claims.—The converging ventilating window, as made with deflecting and light penetrating sides or surfaces, and an air opening, and a closing window or cover, essentially as above explained, and to be applied to the opening of a side of a railway car, substantially as specified. And I claim the arrangement of a deflector guard entirely around the window opening, and in respect to the deflecting sides as specified, not intending to claim a deflector or guard as applied to a car window opening, but to claim its arrangement on four deflecting sides or plains, and entirely around the opening between them, as set forth."

Design.

James R. Hyde, of Troy, N. Y., for a "Design for cooking stove."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, ornamenting the doors, front plate, side plates, and feet of cooking stoves, as herein specified and represented in the annexed photographic drawing."

Additional Improvement.

John Keezer, of Chillicothe, Ohio, for an "Improvement in hominy mortars."—Patented 2nd March, 1858.—Additional Improvement, dated January, 1858.

Claim.—"What I claim, and desire to secure by Letters Pateut, is, the application and combination of the slide, with its spring, and roughening of the lower end of the pestle, for the uses and purposes specified and substantially set forth."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

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Notices to Proceed.

NOTICE is hereby given that

2169. JOHN MANNING, of Cambridge, Engineer, and THOMAS PAUL, of Houghton, in the county of Huntingdon, Miller, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "An improved stone staff to be used in dressing millstones."

As set forth in their petition, recorded in the said office on the 29th day of September, 1858.

2173. And THOMAS BRITT, of No. 9, St. Thomas Terrace, Church Street, Old Kent Road, Camberwell, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "An improvement in the propelling of steamboats."

2174. And JOSEPH WRIGHT, Engineer, of Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in the mode of arranging and moving fire-bars for locomotive puddling and other furnaces."

As set forth in their respective petitions, both recorded in the said office on the 30th day of September, 1858.

2189. And Sir EDWARD BELCHER, of No. 40, Charing Cross, has given the like notice in respect of the invention of "Improvements in the manufacture of telegraphic cables."

As set forth in his petition, recorded in the said office on the 1st day of October, 1858.

2192. And JOSEPH ROGERS, of No. 9, Queen Square, Bartholomew Close, in the city of London, Rope Maker, has given the like notice in respect of the invention of "Improvements in submarine electric telegraph cables."

2194. And WILLIAM BRIERLEY the elder, of Cleckheaton, in the county of York, Machine Maker, has given the like notice in respect of the invention of "Improvements in looms for weaving carpets and other fabrics."

2197. And HENRY GEORGE COLLINS, of Paternoster Row, in the city of London, has given the like notice in respect of the invention of "Improvements in the production of blocks or surfaces to be used in printing."

As set forth in their respective petitions, all recorded in the said office on the 2nd day of October, 1858.

2211. And JOHN HARCOURT BROWN, of the Abbey Mills, Romsey, in the county of Hants, has given the like notice in respect of the invention of "Improvements in the manufacture of projectiles."

2216. And MORITZ JACOBY and FREDERIC RAINFORD ENSOR, of Nottingham, have given the like notice in respect of the invention of "Improvements in the manufacture of bobbin net or twist lace, and other fabrics made in twist lace machines."

As set forth in their respective petitions, both recorded in the said office on the 5th day of October, 1858.

2219. And GEORGE COLLIER, of Halifax, in the county of York, has given the like notice in respect of the invention of "Improvements in winding machines."

As set forth in his petition, recorded in the said office on the 6th day of October, 1858.

2243. And CHARLES WILLIAM LANCASTER, of New Bond Street, in the City of Westminster, Gun Maker, has given the like notice in respect of the invention of "A metal or metallic alloy, especially adapted to the manufacture of fire-arms and ordnance."

As set forth in his petition, recorded in the said office on the 8th day of October, 1858.

2249. And Charles Edward Bull, of Wells, in the county of Norfolk, Gentleman, has given the like notice in respect of the invention of "An apparatus for containing and preserving articles of value from loss or damage in cases of shipwreck."
As set forth in his petition, recorded in the said office on the 9th day of October, 1858.

2275. And Jean Alexandre Gasse, of Paris, in the empire of France, Merchant, has given the like notice in respect of the invention of "Improvements in railway breaks, and in apparatus for working the same."

2277. And Maurice Sautter, of Paris, Boulevart Montmartre, 14, has given the like notice in respect of the invention of "Improvements in air-engines."—A communication from Mr. Joseph Gill, resident at Marsala, Sicily.
As set forth in their respective petitions, both recorded in the said office on the 12th day of October, 1856.

2279. And Henry Parker, of Sledmere Castle, in the East Riding of the county of York, Farmer and Land Agent, has given the like notice in respect of the invention of "An improved apparatus for the cultivation of land and other agricultural operations."
As set forth in his petition, recorded in the said office on the 13th day of October, 1858.

2298. And William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved construction of cabin or state-room for steam-boats and other vessels."—A communication.
As set forth in his petition, recorded in the said office on the 14th day of October, 1858.

2308. And Laurent Marcus, of the Province of Algiers, in Africa, now in Paris, Gentleman, has given the like notice in respect of the invention of "An improved reaping machine."
As set forth in his petition, recorded in the said office on the 16th day of October, 1858.

2363. And Richard Waller, of No. 50, Baker Street, Portman Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in obtaining motive power, and in apparatus connected therewith."
As set forth in his petition, recorded in the said office on the 22nd day of October, 1858.

2398. And Thomas Almond, of No. 22, Pickering Place, Paddington, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in furnaces for the better combustion of smoke."
As set forth in his petition, recorded in the said office on the 27th day of October, 1858.

2412. And Pierre Brunon, of Paris, France, Manufacturer, has given the like notice in respect of the invention of "An improved mode of manufacturing cocks."
As set forth in his petition, recorded in the said office on the 29th day of October, 1858.

2553. And Manuel Leopold Jonas Lavater, of the Strand, in the county of Middlesex, India Rubber Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of mats, coverings for floors and other surfaces, and other cellular articles when india-rubber compounds are used."
As set forth in his petition, recorded in the said office on the 13th day of November, 1858.

2592. And Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in apparatus for the manufacture of lace and net."—A communication from Messieurs A. Grivel, jun., and J. F. V. Mouilleron, both residing in Paris.
As set forth in his petition, recorded in the said office on the 17th day of November, 1858.

2674. And Rudolph Bodmer, of No. 2, Thavies Inn, Holborn, London, has given the like notice in respect of the invention of "Improvements in valves for regulating the supply of steam."—A communication.
As set forth in his petition, recorded in the said office on the 25th day of November, 1858.

2734. And John Coulson, of the firm of J. and W. Midworth, of Newark, in the county of Nottingham, Engineers, has given the like notice in respect of the invention of "Improvements in threshing and dressing machines."
As set forth in his petition, recorded in the said office on the 30th day of November, 1858.

2762. And Thomas Bailey, of New Orleans, United States, and of 17, Russell Street, Birmingham, in the county of Warwick, Gun Manufacturer, has given the like notice in respect of the invention of "A mechanical movement applicable to loading fire-arms and other purposes."
As set forth in his petition, recorded in the said office on the 3rd day of December, 1858.

2966. And John Sinclair, of the city of Dublin, Ireland, Turner and Fitter, has given the like notice in respect of the invention of "Improvements in pistons."
As set forth in his petition, recorded in the said office on the 28th day of December, 1858.

74. And Thomas James Claxton, of the city of Montreal, Canada, Merchant, has given the like notice in respect of the invention of "Improvements in the manufacture of boots and shoes."—A communication from Mellen Bray, of Montreal aforesaid, Boot and Shoe Maker.
As set forth in his petition, recorded in the said office on the 10th day of January, 1859.

117. And William Wilson, of Newcastle-upon-Tyne, Hat Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for felting bodies of hats and bonnets."—A communication from abroad by J. S. Taylor, of Danbury, Connecticut, United States of America.
As set forth in his petition, recorded in the said office on the 13th day of January, 1859.

155. And Richard Bradley and William Craven, of Westgate Common Foundry, Wakefield, in the county of York, Engineers, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for manufacturing bricks, tiles, and other similar articles."

As set forth in their petition, recorded in the said office on the 18th day of January, 1859.

161. And Thomas Clarke, of Litchurch Lane, near Derby, in the county of Derby, and of Staveley, in the county of Derby, Moulder, have given the like notice in respect of the invention of "Improvements in the manufacture of core barrels for pipes or columns used either for railway piles or columns, or for water pipes or sewerage pipes."

As set forth in his petition, recorded in the said office on the 19th day of January, 1859.

170. And James Croft Reid, of Liverpool, in the county of Lancaster, Master Mariner, and William Milner, of the same place, Manufacturer, have given the like notice in respect of the invention of "Certain improvements in the construction of ships and vessels."

171. And Harvey Hilliard and Thomas Chapman, Cutlery Manufacturers and Patentees of the 'Furbator,' of Glasgow, in the county of Lanark, North Britain, have given the like notice in respect of the invention of "Improvements in table knives, and in table-knife sharpeners."

172. And Abraham Lindo, of Batignolles, in the French empire, Chemist, has given the like notice in respect of the invention of "Improvements in manufacturing soap."

178. And Thomas Greenwood, John Batley, and Jacob Dockray, of Leeds, in the county of York, Machinists, have given the like notice in respect of the invention of "Improved machinery for converting hemp and flax fibres into yarn, twine, ropes, and cordage."

As set forth in their respective petitions, all recorded in the said office on the 20th day of January, 1859.

188. And John Hick and William Hargreaves, of Bolton-le-Moors, in the county of Lancaster, Engineers, trading under the firm of Benjn. Hick and Son, have given the like notice in respect of the invention of "Improvements in the construction of steam boilers."

194. And James Hill Hume, of Broughty Ferry, in the county of Forfar, North Britain, Baker, has given the like notice in respect of the invention of "Improvements in warming apparatus for the feet."

As set forth in their respective petitions, both recorded in the said office on the 21st day of January, 1859.

205. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improved machinery for cutting files."—A communication from Milton D. Whipple, of the United States of America.

207. And Christian Sharps, of Philadelphia, in the state of Pennsylvania, United States of America, Manufacturer of Fire-Arms, has given the like notice in respect of the invention of "Improvements in breech loading repeating fire-arms."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of January, 1859.

And notice is hereby further given, that all persons, having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

8th February, 1859.

1812. Thomas Goode Messenger, of High Street, Loughborough, in the county of Leicester, Horticultural Builder and Plumber, for an invention of "Improvements in the manufacture of garden engines, which are also applicable to fire or other engines."—Dated 9th August, 1858.

1839. Alexander John Paterson, of Edinburgh, Esquire, for an invention of "An improvement in propelling ships and vessels."—Dated 12th August, 1858.

1847. François Jules Manceaux, of Paris, in the empire of France, Manufacturer, for an invention of "Improvements in stocks for fire-arms."—Dated 13th August, 1858.

1931. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in bellows."—A communication from a Foreigner residing abroad.—Dated 26th August, 1858.

1947. William Kempe, of Holbeck Mills, Leeds, for an invention of "Improvements in apparatus used for winding woollen and other fabrics on rollers, in order to such fabrics being boiled or faced when on the rollers."—Dated 27th August, 1858.

1969. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the construction of governors or regulators for steam engines."—A communication from William W. W. Wood and John Rice, both of the city of Philadelphia, state of Pennsylvania, United States of America.—Dated 30th August, 1858.

1973. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved apparatus for mounting the driving bands of machinery in movement."—A communication from a Foreigner residing abroad.—Dated 31st August, 1858.

2003. August Guye, of Clerkenwell, in the county of Middlesex, for an invention of "Improvements in the escapement of chronometers and watches."—Dated 4th September, 1858.

2057. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improvement in water wheels."—Dated 10th September, 1858.

2187. Matthaeus Hipp, Technical Inspector of the Swiss Telegraphs, of Berne, in Switzerland, for an invention of "Improvements in electric telegraphs."—Dated 1st October, 1858.

2411. Walter Hall and Arthur Wells, both of Erith, in the county of Kent, India Rubber Web Manufacturers, for an invention of "Improvements in electric telegraph cables, and in machinery employed in the manufacture thereof."—Dated 28th October, 1858.

2653. Thomas Spencer, of the firm of John Spencer and Sons, of Newcastle-upon-Tyne, Steel and Spring Manufacturers, for an invention of "Improvements in the manufacture or construction of springs."—Dated 22nd November, 1858.

2757. William Robertson, of Dundee, in the county of Forfar, North Britain, Engineer, and James Guthrie Orchar, of the same place, Engineer, for an invention of "Improvements in machinery or apparatus for winding yarns or thread."—Dated 2nd December, 1858.

2905. James Soutter, of Edinburgh, in the county of Mid Lothian, Turner, for an invention of "Improvements in apparatus for drying or airing linen or other articles of wearing apparel."—Dated 18th December, 1858.

2953. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved composition for the protection of certain metallic surfaces."—A communication from a Foreigner residing abroad.—Dated 27th December, 1858.

2957. John Shaw, of Manchester, in the county of Lancaster, Mechanic, for an invention of "A new mechanical combination called 'an indefinite feed movement.'"—Dated 27th December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 5th February*, 1859, *inclusive.*)

4th February.

416. Stephen Fitchew Cox, of the city of Bristol, for an invention of "Improvements in the manufacture of leather and in the machinery for that purpose."—Dated 19th February, 1856.

5th February.

310. Michael Leopold Parnell, Patent Lock Manufacturer, of No. 283, Strand, in the parish of St. Clement Danes, in the county of Middlesex, for an invention of "An improvement in the construction of locks."—Dated 5th February, 1856.

327. James Edward Duyck, of Wandsworth, in the county of Surrey, Gentleman, for an invention of "Improvements in the manufacture of oil cake."—Dated 6th February, 1856.

343. John Elce and Samuel Fletcher Cottam, both of the city of Manchester, Machinists, for an invention of "An improved mode of lubricating the spindles of machinery used in preparing and spinning cotton and other fibrous materials, revolving in a lifting rail."—Dated 9th February, 1856.

354. William Horatio Harfield, of 113, Fenchurch Street, for an invention of "Improvements in the manufacture of metallic screw nuts."—A communication.—Dated 11th February, 1856.

358. George Tomlinson Bousfield, of Sussex Place, Loughborough Road, in the county of Surrey, for an invention of "An improvement in treating fats and oils."—A communication.—Dated 12th February, 1856.

Errata in Journal of 4th February.

151. For "Engineer" read "Esquire."

174. For "Herr Von Langen Royal" read "Herr Von Langen."

186. After "Surrey" add "Engineer."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents for Inventions which were Delivered, Prolonged, and became Void during the Month of October, 1858.†

(Communicated by the Austrian Government.)

1. Patents Granted.

1. Georg Mayerhofer, of Graz, for "Manufacture of metal billiard cues."—1 year.—(Secret.)—Dated 6th October, 1858.

2. Ziegler Brothers, of Ruchla, near Eisenach, represented by Doctor Michael Melkus, of Vienna, for "A new construction of bowls of smoking pipes."—3 years.—(Secret.)—Dated 6th October, 1858.—(Saxen-Coburg Gotha Patent, 1st April, 1858; and Grand Duchy of Saxony Patent, 14th April, 1858.)

3. Carl Ventzke, of Berlin, represented by Dr. Max Von Schickh, of Vienna, for "A peculiar apparatus for pressing the juice from beetroot and other pasty fibrous substances."—1 year.—(Secret.)—Dated 6th October, 1858.

4. Ulysses Puech, of Paris, represented by Georg Märkl, of Vienna, for "A rectilinear self-acting knitting frame."—1 year.—(Public.)—Dated 6th October, 1858.

5. David Chlodwig Knab, of Paris, represented by Georg Märkl, of Vienna, for "Improvements in distilling coal, brown coal, peat, &c., and utilizing their sub-products."—1 year.—(Public.)—Dated 7th October, 1858.

6. Julius Thomas Belleville, of Paris, represented by Georg Märkl, of Vienna, for "A smoke-consuming grate with a continuous feeding apparatus."—1 year.—(Public.)—Dated 7th October, 1858.

7. Samuel Singer, of Vienna, for "A press and cutting machine for obtaining embossed lace-work of leather, silvered, gilt, or bronzed, and raised buttons on wooden and metal forms."—1 year.—(Secret.)—Dated 7th October, 1858.

8. Alois Thoma and Johann Hnewkosky, both of Brux, for "Apparatus for obtaining coke from common brown coal, and from coals unfit for that purpose, by removing the water and bitumen therefrom and mixing them with a plastic substance, said coke being applicable in metallurgical processes as a substitute for charcoal and the common coke of coal."—1 year.—(Secret.)—Dated 7th October, 1858.

9. Johann Christoph Endris, of Vienna, for "Improvements in the permanent way of railways."—2 years.—(Secret.)—Dated 7th October, 1858.

10. Ludwig Manzi, of Milan, for "Improvements in common and military ovens for baking bread and biscuits."—1 year.—(Public.)—Dated 7th October, 1858.

11. Gruber, of Vienna, for "A machine for manufacturing the elastic mountings of shoes, braces, porte-monnaies, &c."—1 year.—(Secret.)—Dated 7th October, 1858.

12. J. Carl Krise and Johann Krise, both of Carolinenthal, near Prague, for "Manufacture of hats and other felt articles by mixing wool with dressed fur of rabbits, cotton, and downy feathers."—2 years.—(Secret.)—Dated 7th October, 1858.

13. Eduard Nehse and Carl Nehse, both of Neustadt, on the Rubenberge, Hanover, represented by Dr. Claudius Ferdin. Höchsmann, of Vienna, for "Machines and apparatus for compressing peat, brown coal, and coal dust by a dry or wet process."—4 years.—(Secret.)—Dated 9th October, 1858.—(Hanoverian Patent, 17th March, 1858.)

14. Johann Jacob Guillet, of Paris, domiciled at Mflan, for "Obtaining an artificial lighting substance for domestic and industrial purposes from the residues of animal, vegetable, and mineral products."—1 year.—(Public.)—Dated 9th October, 1858.

15. Joseph Bailony, of Schwechat, Lower Austria, for "An expeditious mode of tanning sole-leather by means of a peculiar air-pump, mesh, and ooze of tannic acid, and an acid decoction of oak gall nuts, strengthened by spirit of wine."—1 year.—(Secret.)—Dated 12th October, 1858.

16. Joseph Francis, of New York, U.S. (represented by Dr. Claudius Höchsmann), of Vienna, for "Improvements in the manufacture of metal boats."—5 years.—(Secret.)—Dated 14th October, 1858.

17. Joseph Francis, of New York, U.S. (represented by Dr. Claudius Höchsmann), of Vienna, for "Construction of wagons, caissons, and other carriages, whereby they may be used for conveying soldiers and other objects by land and water."—5 years.—(Secret.)—Dated 15th October, 1858.

18. Robert Wilhelm Thode, of Dresden, represented by Eduard Schmidt, of Vienna, for "A machine and process for grinding fibrous substances for the manufacture of paper."—2 years—(Public.)—Dated 9th October, 1858.

19. Alexander Carl Paul Ludwig de Ville Chabrol, of Paris, represented by Martin, of Vienna, for "Improvements in sewing machines."—1 year.—(Secret.)—Dated 9th October, 1858.

20. Joseph Stoufs, of Vienna, for "Obtaining fast lithographic designs on fabrics."—1 year.—(Secret.)—Dated 9th October, 1858.

21. Napoleon Tettamanzi, of Turin, represented by Titus Ricordi, of Milan, for "A peculiar process

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

for rearing silkworms." — 2 years. — (Secret.) — Dated 9th October, 1858.

22. Georg Zugmayer, of Waldegg, near Wr. Neustadt, for "An economical and expeditious mode of smelting and refining copper by means of blasts, so as to be ready for forging and rolling."—5 years. —(Secret.)—Dated 12th October, 1858.

23. Victor Schäffner, of Altrohlau, near Karlsbad, for "Obtaining a metallic lustre on porcelain and stone-ware."—2 years.—(Secret.)—Dated 12th October, 1858.

24. Moriz Mandel, of Prague, for "Improvements in the manufacture of vegetable oils for burning and lubricating purposes,"—1 year. — (Secret.)— Dated 13th October, 1858.

25. Emanuel Wrzolik, of Troppau, for "An apparatus for converting a rectilinear continuous motion into another motion, and vice versâ, by varying at the same time the velocity, and consequently the proportion of power to weight, without using cog-wheels or similar contrivances."—1 year. —(Secret.)—Dated 13th October, 1858.

26. Joseph Blümel, of Blaz, Bohemia, for "A machine for removing the roots of trees from lands."—1 year.—(Public.)— Dated 9th October, 1858.

27. Johann Christoph Endris, of Vienna, for "Improvements in the manufacture of paints."— 2 years.—(Secret.)—Dated 13th October, 1858.

28. Anton Anton, of Tepliz, Bohemia, for "Coating whips and canes with india rubber, gum, or gutta percha, whereby they are protected from dampness and heat, and made more flexible."— 1 year.—(Public.)—Dated 13th October, 1858.

29. Dr. Julius Fornara, of Vienna, for "Peculiar iron wheels and rails, to be used for conveyance on common roads and railways."—1 year.—(Public.) Dated 13th October, 1858.

30. Anton von Webern, of Prävali Unterdrauburg, Carinthia, for "Manufacturing coal-cokes from the waste of mineral and vegetable coal without using any mechanical pressure, or any other strange plastic substance."—1 year.—(Public.)— Dated 13th October, 1858.

31. Friedrich Hilbert, of Vienna, for "Improvements in the construction of double-action force and lift pumps, with clack-valves on a common clack-plate."—1 year.—(Secret.)—Dated 20th October 1858.

32. Carl Kronig, of Vienna, for "Manufacture of sugar moulds of papier-mâché."—1 year.—(Secret.) —Dated 18th October, 1858.

33. Michael Fröhlich, of Graz, for "Manufacturing, by means of the sewing machine, of waterproof hats of wool, and of imitation straw hats of raw silk, and yellow English fabrics that may be washed." — 2 years.—(Secret.)—Dated 20th October, 1858.

34. Arnold W. Braun, of Pest, for "A technical mechanical apparatus for exercising the hand in calligraphic writing."—1 year.—(Secret.)— Dated 20th October, 1858.

35. Ludwig Cassina, of Greco, near Milan, for "Improvements in his rotary sowing machine, whereby the sowing is promoted, and the machine is made to move more freely."—1 year.—(Public.) —Dated 20th October, 1858.

36. Nadault de Buffon, of Paris, represented by A. Martin, of Vienna, for "A filtering apparatus." —3rd year.—(Public.)—Dated 20th October, 1858.

37. John Harthan and Ezra Harthan, both of Timberbrock, near Congleton, in county of Chester, England, represented by Eduard Schmidt, of Vienna, for "Obtaining a motive power by means of a peculiar rotary machine, worked by steam or compressed air, in which the direct pressure is used as a propelling power, in combination with the reactionary power." — 10 years. — (Secret.)— Dated 20th October, 1858.—(English Patent, 26th January, 1858.)

38. Hermann Ehrenfeld, of Braunhirfchersgrund, near Vienna, for "Improvements in whitening starch so as to remain unalterable." — 1 year. — (Secret.)—Dated 20th October, 1858.

39. Giuseppe Corazina and Sons, of Brescia, for "A peculiar method of waterproofing leather."— 1 year.—(Secret.)—Dated 20th October, 1858.

40. Neander Oskar Paul Meister, of Chemnitz, Saxony, represented by Dr. Claudius Ferdin. Höchsmann, of Vienna, for "A peculiar process for giving a metallic lustre to textile vegetable and animal fibres and fabrics made thereof."—1 year. —(Secret.)—Dated 20th October, 1858. — (Saxon Patent, 8th May, 1856.)

41. Neander Oskar Paul Meister, of Chemnitz, Saxony, represented by Dr. Claudius Ferdin. Höchsmann, of Vienna, for "A process in dyeing for increasing the metallic lustre of fabrics made of vegetable fibres."—1 year.—(Secret.)—Dated 20th October, 1858.—(Saxon Patent, 8th May, 1856.)

42. Philipp Stanislaus Kodym, of Scharka, near Prague, for "Construction of stoves in which the smoke, after being partly consumed, is made to circulate in lower canals, whereby a greater economy in fuel, a better heating, and ventilation, are obtained."—1 year.—(Public.)—Dated 22nd October, 1858.

43. Joseph Spatz, of Ofen, for "An improved method of manufacturing pockets in men's dresses."—4 years.—(Secret.)—Dated 22nd October, 1858.

44. Alois Schubert, of Vienna, for "Manufacture of figures, animals, and chiefly images of saints, by means of a peculiar plastic substance."—1 year.— (Secret.)—Dated 22nd October, 1858.

45. Carl Emil Weber, of Mühlhausen, France, represented by Alphons Dietz, of Vienna, for "Machines for dyeing and scouring fabrics."— 5 years.—(Public.)—Dated 23rd October, 1858.— (French Patent, 9th August, 1853.)

46. Joseph Cavaggia and Anselm Spinelli, of Avignon, France, represented by Georg Märkl, of Vienna, for "A method of obtaining motive power in machines."—1 year.—(Public.)— Dated 23rd October, 1858.

47. Johann Lamatsch, of Vienna, for "Purifying fresh ox-gall for industrial purposes, and making the same as limpid as water."—1 year.— (Secret.) —Dated 23rd October, 1858.

48. Jacob Nachtmann, of Hartberg, Styria, for "Improvements in Dzierzor's beehives, whereby they may be enlarged and diminished, the same being also provided with double walls of coal, reeds, and straw."—1 year.—(Public.)—Dated 23rd October, 1858.

49. Stephan Wolff, of Szigethvár, Hungary, for "A French polish for repolishing old furniture in little time."—1 year.—(Secret.)—Dated 24th October, 1858.

50. Adolph Vincenz Bartl, of Liesing, Lower Austria, for "Manufacture of uniform cards with designs and fixed gold borders for apothecaries."—1 year.—(Secret.)—Dated 26th October, 1858.

51. Leopold Eder, of Linz, for "Manufacture of foot coverings from a waterproof substance which has not been used thereto hitherto."—1 year.—(Secret.)—Dated 29th October, 1858.

52. Peter Joseph Ouyet, of Paris, represented by Georg Märkl, of Vienna, for "A peculiar mode of applying vulcanized india rubber to valves and cocks."—1 year.—(Public.)—Dated 29th October, 1858.

53. Johann Wunderer, of Vienna, for "A machine for piercing cigars lengthwise and for splitting them from the inside, whereby they are made to dry quicker and to burn more easily."—2 years.—(Public.)—Dated 29th October, 1858.

54. A. Pleischl and Son, of Vienna, for "Conveying liquids, such as milk, wine, beer, &c., by means of a peculiarly closed apparatus, whereby the air is made to escape without refilling."—1 year.—(Public.)—Dated 29th October, 1858.

55. Hermann Steinmann, of Vienna, for "Improvements in the construction of steam boilers."—1 year.—(Secret.)—Dated 29th October, 1858.

56. Ottavio Coletti, of Turin, represented by Archita Rignanti, of Milan, for "A tow boat worked by water power for ascending rivers."—1 year.—(Secret.)—Dated 29th October, 1858.

57. Hermann Ehrenfeld, of Braunhirschengrund, near Vienna, for "Improvements in his patent compressed yeast, whereby the same is made quite pure and durable."—1 year.—(Secret.)—Dated 30th October, 1858.

58. Guinou, Marnas, and Bonnet, of Lyon, represented by Cornelius Kasper, of Vienna, for "Manufacture of a peculiar substance, called 'French purple.'"—1 year.—(Secret.)—Dated 30th October, 1858.

59. B. S. Krämer, of Vienna, for "Improvements in manufactured goods by obtaining thread barege."—1 year.—(Public.)—Dated 30th October, 1858.

60. Jacor Philipp Hirsch, of Vienna, for "Mounting waterproof military caps with steel springs and self-acting elastics of gum elastic."—1 year.—(Public.)—Dated 30th October, 1858.

61. Emil Peltier, of Paris, represented by Johann Jos. Ant. von Sonnenthal, of Vienna, for "A machine for manufacturing air-tight tin boxes, especially for preserving fruit."—1 year.—(Secret.)—Dated 30th October, 1858.

62. Julius Dulait, of Charleroy, Belgium, represented by Dr. Ferdinand Kaufmann, of Mährisch-Neustadt, for "Improvements in the construction of kilns for obtaining coke from coals by consuming the gases of distillation."—To 13th April, 1867.—(Secret.)—Dated 30th October, 1858.—(Belgian Patent, 14th April, 1854.)

2. Patents Prolonged.

1. Georg Weninger and Severin Zavisics, for "Improvements in apparatus for making the beds of invalids and wounded persons."—3rd year.—(Secret.)—Dated 20th September, 1856.

2. Eduard Beckmann Olofson, for "A diamond paint for protecting iron from rust."—2nd year.—(Secret.)—Dated 19th September, 1857.

3. Alois Baumann, for "A means of destroying flies."—2nd year.—(Secret.)—Dated 19th September, 1857.

4. Johann Darzens, for "Closed spittoons."—3rd year.—(Secret.)—Dated 13th October, 1856.

5. Ludwig Setzer, for "Improvements in the construction of billiard tables."—2nd year.—(Secret.)—Dated 21st September, 1857.

6. Victor Augustin Kienzy, for "A machine for clearing and ploughing land."—2nd year.—(Public.)—Dated 28th September, 1857.

7. Johann Heinrich Chaudet, for "A process for scouring the waste of cloth and wool and boiling silk."—2nd year.—(Public.)—Dated 28th September, 1857.

8. Johann Boschek and Co., for "Improvements in Hensmann's thrashing machine."—2nd year.—(Secret.)—Dated 29th November, 1857.

9. Carl Alexander de Fonbone (assignees Clevis Knab and Co., Paris), for "Improvements in apparatus for manfacturing coke and lighting gas."—7th to 9th year.—(Public.)—Dated 18th October, 1856.

10. Egnaz Michael Firnstahl, for "A machine for printing small neckerchiefs."—3rd year.—(Secret.)—Dated 18th September, 1856.

11. Barbara Schmidt, for "Manufacture of selvage shoes of linen or any other woven linen, woollen, or silk fabric."—3rd year.—(Secret.)—Dated 21st September, 1856.

12. M. Alkau, for "A process for spooling cocoons and obtaining raw silk."—2nd year.—(Public.)—Dated 28th September, 1857.

13. Cäsar Bozotti and Co., for "A machine applicable to spindles of silk-throwing machines for spooling and registering the skeins of weft-organzine or sewing silk."—2nd and 5th year.—(Public.)—Dated 1st December, 1857.

14. Moriz Gall (Ludwig Gall, assignee), for "Improvements in obtaining copper from vitriol water by putting in iron, and by a galvanic process without iron, whereby the costs are greatly diminished, and whereby the galvanism obtained thereby, after being conducted on electro-magnets, may be used as a motive power."—3rd year.—(Secret.)—Dated 23rd September, 1856.

15. Carl von Stallauer and Ludwig Wittmann (the latter's share assigned to Albert Seliger), for "Enamelling oil-paintings, engravings, lithographs, plain or coloured, photographs, maps, paper-hangings, &c."—2nd year.—(Secret.)—Dated 25th November, 1857.

16. Michael Winkler, for "Improvements in sign-boards with indestructive oil inscriptions."—6th year.—(Secret.)—Dated 22nd September, 1853.

17. Johann Peter Klein and Wilhelm Zipser, for "A gig-mill."—3rd year.—(Secret.)— Dated 18th October, 1856.

18. Johann Peter Klein and Wilhelm Zipser, for "Improvements in gig-mills."—2nd year.—(Secret.)—Dated 3rd October, 1857.

19. Henry Louis Dormoy, for "A process for obtaining cheap imitation silk laces."—5th year.—(Secret.)—Dated 27th March, 1855.

20. François Durand, for "A twisting machine."—4th year. — (Public.) — Dated 24th October, 1855.

21. Carl König, for "A composition of various substances for removing and preventing incrustations of boilers." — 2nd year. — (Secret.)—Dated 4th October, 1857.

22. Leopold Salzer, for "Obtaining embossings on paper."—2nd year.—(Secret.)—Dated 7th November, 1857.

23. Samuel Kampl, for "Protecting ladies' dresses from tear and wear."—2nd and 3rd year.—(Secret.) Dated 28th December, 1857.

24. Anton Jaun, for "Improvements in combining threads in the manufacture of twilled fabrics."—6th year.—(Secret.)—Dated 26th September, 1853.

25. Johann Czermak, for "Improvements in the manufacture of wicks of torches." — 2nd year.—(Secret.)—Dated 28th September, 1857.

26. Ferrando Giani, for "A machine for rearing silkworms, and hatching eggs."—2nd year.—(Public.)—Dated 3rd October, 1857.

27. Salomon Schlesinger and Thomas Hansen, for "Improvements in apparatus for turning over sheets on fly-presses."—4th year—(Secret.)—Dated 30th September, 1855.

28. Heinrich Hofer, for "An apparatus for regulating machines used for preparing substances for spinning."—3rd year.—(Public.)—Dated 30th December, 1856.

29. Alexander von Boer, for "Improvements in the manufacture of tallow candles by means of a chemical bleaching process."—2nd year.—(Secret.)—Dated 22nd September, 1857.

30. Franz Kiss, for "A mode of extracting silver-ores containing gold and copper-ores containing gold and silver." — 2nd year.— (Secret.) —Dated 28th September, 1857.

31. Georg Roth, for "Improvements in fixing shanks to metal buttons without soldering."—3rd year.—(Secret.)—Dated 9th October, 1856.

32. Franz Wagner, for "Manufacture of cast-steel in pressed fire-proof crucibles heated by means of coke."—3rd year.—(Secret.)— Dated 17th October, 1856.

33. Eduard Schmidt and Friedrich Paget, for "A chemical ink for printing bank notes, bills of exchange, &c."—2nd year.— (Secret.) —Dated 4th October, 1857.

34. Eduard Schmidt and Friedrich Paget, for "Manufacture of paper."—2nd year.—(Secret.)—Dated 8th October, 1857.

35. Carl Dinkler, for "Improvements in the manufacture of stamps of all kinds."—3rd year.—(Secret.)—Dated 9th October, 1856.

36. Joseph Bossi, for "Improvements in the plate of the printing table of his patent machine for printing from below."—3rd year.—(Secret.)—Dated 10th October, 1856.

37. Johann Villicus, for "An apparatus for the manufacture of wooden pegs of soles, by means of a peculiar plane-iron." — 3rd year. — (Secret.)— Dated 22nd Ootober, 1856.

38. Franz Hoffmann, for "An improved manure compound."— 2nd year. — (Secret.) — Dated 1st November, 1857.

39. Anton Plischke, for "A new sewing and tambouring machine." — 6th year. — (Secret.) — Dated 12th October, 1853.

40. Simon Jarsowitz, for "A vegetable soap."—4th and 5th year.—(Secret.)—Dated 20th October, 1855.

41. Joseph Hermann, for "Improvements in steel-plated plane irons, and other edged tools."—4th and 5th year.—(Secret.)—Dated 19th December, 1855.

42. Christian Haumann, for "Stuffing by means of hardened steel-bands, springs, or without steel-wire."—3rd year.—(Secret.)—Dated 13th October, 1856.

43. Adolph de Milly, for "A process for saponifying fats."—3rd and 4th year.—(Secret.)—Dated 28th October, 1856.

44. Benedict Filippi, for "Applying the English mechanism to Viennese pianos."—7th year.—(Secret.)—Dated 12th October, 1852.

45. Ernst Werner Siemens and Johann Georg Halske, for "A regenerating fire-place."—4th and 15th year.—(Public.)—Dated 13th May, 1857.

46. Franz Bozek, for "Improvements in circular segment mangles."—6th year.—(Public.)—Dated 5th January, 1854.

47. Leopold Hahn, for "Improvements in the manufacture of vamps of half boots."—8th year.—(Public.)—Dated 4th November, 1851.

48. James Seymour (Eduard Zulzer, assignee), for "Improvements in sewing machines."—3rd year.—(Public.)—Dated 13th October, 1856.

49. Joseph Von Gál, for "Improvements in the manufacture of staves of casks."—3rd year.—(Public.)—Dated 22nd Oetober, 1856.

50. Leopold Köppel (Anna Maria Köppel, assignee), for "Improvements in universal telegraph advertisements."— 8th year. — (Public.) — Dated 23rd October, 1851.

51. Carl Lauth and Ernst Depoully, for "Improvements in dyeing and printing fibrous substances, textures, feathers, skins, &c."—2nd year.—(Secret.)—Dated 4th October, 1857.

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3. Patents which have become Void.*

1. Franz Victor, for "Improvements in the manufacture of perfumery by a cold process."—Dated 2nd July, 1857; disclaimed 24th June, 1858.

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* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

2. Ferdinand Reiber and Heinrich Breiter, for "Improvements in the manufacture of metal match boxes and snuff boxes."—Dated 15th April, 1858; disclaimed, 11th June, 1858.

3. Joseph Lampe, for "Manufacture of manure of boiled bones."—Dated 31st May, 1855; expired 31st May, 1858.

4. Archibald Reid and Carl O'Neil, for "Improvements in the treatment of copper ores."—Dated 19th July, 1857; expired 19th July, 1858.

5. Jacob Franz Heinrich Hemberger, for "Improvements in preparing European and Chinese flax, hemp, and other vegetable fibrous substances."—Dated 6th April, 1853; expired 6th April, 1858.

6. Wilhelm Schulze, for "A new cement, called 'terrazzinio.'"—Dated 15th April, 1853; expired, 15th April, 1858.

7. Nicolaus Schmitt, for "A new method of preparing coals and ores."—Dated 26th April, 1853; expired 26th April, 1858.

8. Carl Hartmuth, for "Improvements in the manufacture of fire clay tiles."—Dated 20th April, 1853; expired 20th April, 1858.

9. Otto Baumann, for "An eccentric cylinder press for pressing out the juice of beetroot, oil, &c."—Dated 24th April, 1853; expired 24th April, 1858.

10. Clemens Ambrozi, for "A chemical process for preparing all kinds of tartaric compounds from bases which have not been used hitherto."—Dated 7th April, 1854; expired 7th April, 1858.

11. Franz Chrismar, for "A new motor."—Dated 17th April, 1855; expired 17th April, 1858.

12. Wilhelm Suda, for "Manufacture of so-called 'Akart candles.'"—Dated 21st April, 1855; expired 21st April, 1858.

13. Eugen Rimmel, for "Manufacture of artificial india rubber."—Dated 22nd April, 1855; expired 22nd April, 1858.

14. Theresia Winkler, for "Improvements in the manufacture of so-called 'American pomatum.'"—Dated 7th April, 1853; expired 7th April, 1858.

15. Wilhelm Adolph Zempliner, for "Manufacture of elastic gold, silver, and other metal chains."—Dated 26th April, 1856; expired 26th April, 1858.

16. Antonio Luraschi, for "Improvements in the cushions of billiard tables."—Dated 6th April, 1856; expired 6th April, 1858.

17. A. Heinrich, for "A new system of so-called 'curved patent axles.'"—Dated 28th April, 1856; expired 28th April, 1858.

18. Julian Galletzky, for "Improvements in the manufacture of elastic beds, bottoms of bedsteads, and iron folding bedsteads."—Dated 29th April, 1856; expired 29th April, 1858.

19. Carl Miksits, for "A machine for expelling the smoke from chimney flues."—Dated 10th April, 1857; expired 10th April, 1858.

20. Prosper Durand, for "A process for manufacturing coke from wood and peat, anthracite, and other coal."—Dated 10th April, 1857; expired 10th April, 1858.

21. Ignaz Regensburger and Joseph Bischof, for "Improvements in catoptric apparatus for measuring distances."—Dated 13th April, 1857; expired 13th April, 1858.

22. Samuel Jägermayer, for "Means of separating earthy solutions in water for applying the latter to washing, and especially to scouring wool, by economising soap."—Dated 13th April, 1857; expired 13th April, 1858.

23. Anthon Blumenthal, for "Hats for protecting vines from frost and hoar frost."—Dated 16th April, 1857; expired 16th April, 1858.

24. Johann Martin Hess, for "Improvements in the manufacture of card boxes and other articles."—Dated 18th April, 1857; expired 18th April, 1858.

25. Johann Paul, for "Improvements in the construction of lamps for burning resinous oil."—Dated 20th April, 1857; expired 20th April, 1858.

26. Michael Neuburger, for "Improvements in mowing machines."—Dated 22nd April, 1857; expired 22nd April, 1858.

27. Hippolyte Arséne Marie, for "A clasp for fastening dresses, travelling bags, &c."—Dated 22nd April, 1857; expired 22nd April, 1858.

28. Carl Alder, for "Improvements in obtaining extract of gall-nuts and other tanning and dyeing products."—Dated 22nd April, 1857; expired 22nd April, 1858.

29. Alfred Egan, for "A peculiar distributing regulator for locomotives."—Dated 22nd April, 1857; expired 22nd April, 1858.

30. Albert Stähle, for "Breech-loading shooting guns."—Dated 22nd April, 1857; expired 22nd April, 1858.

31. Simon Ghidiglia and Ludwig Turtetti, for "Improvements in buckles without tongues."—Dated 29th April, 1857; expired 29th April, 1858.

32. Paul de Plument, for "Improvements in petticoats."—Dated 29th April, 1857; expired 29th April, 1858.

33. Gottlieb Friedrich August Quidde, for "An apparatus for propelling vessels, boats, and other floating bodies."—Dated 4th May, 1856; expired 4th May, 1858.

34. Amadée Louis Bendent and Jean Louis Marie Paul Benoit, for "A new process of treating arsenical ores and copper ores."—Dated 8th July, 1856; expired 8th July, 1858.

35. Wilfried de Tonvielle and Eugen Grenet, for "An electro-magnetic apparatus to be used as a motive power."—Dated 8th July, 1856; expired 8th July, 1858.

36. Hans Rees, John London, and Otto Ahlström, for "A machine for boring and cutting stone."—Dated 14th July, 1856; expired 14th July, 1858.

37. Anton Richter, for "A machine for equalling and rounding the teeth of the wheels of watches."—Dated 29th May, 1858; disclaimed 21st October, 1858.

38. August Prinz, for "A metal for obtaining electric current."—Dated 11th July, 1857; expired 11th July, 1858.

39. Gerhard Uhlhorn, for "An apparatus for obtaining an efficient working power of steam-

engines and mills working together."—Dated 10th October, 1856; annulled 26th October, 1858, because of its not having been worked.

40. Carl Böhm, for "Improvements in the crystallizing process and treatment employed in the manufacture of stearine candles of animal grease."—Dated 8th May, 1846; expired 8th May, 1858.

41. Louis Leo Wolf, for "Improvements in the construction of horse gins."—Dated 12th May, 1848; expired 12th May, 1858.

42. Franz Horski, for "Improvements in sowing and tilling machines."—Dated 29th May, 1852; expired 29th May, 1858.

List of Specifications, &c. published during the week ending 4th February, 1859.

No.	Price.	Subject-Matter.
1460	4*d.*	Collecting and disposing of sewage.
1463	1*s.* 11*d.*	Machine for manufacturing square bags of paper, &c.
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1465	3*d.*	Adjustable spindle for locks and latches.
1468	3*d.*	Moulding, casting, and coating metal articles.
1469	1*s.* 9*d.*	Agricultural machinery, &c.
1470	3*d.*	Locks, &c.
1472	10*d.*	Circular knives and saws.
1473	3*d.*	Wheels.
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1475	3*d.*	Reefing sails.
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1477	8*d.*	Gridirons.
1478	3*d.*	Apparatus for preventing the explosion of steam boilers.
1479	10*d.*	Steam boilers and engines.
1480	9*d.*	Omnibuses.
1481	9*d.*	Manufacture of sheet metal.
1482	7*d.*	Machinery for separating grain, minerals, &c.
1483	3*d.*	Electric conductors.
1484	3*d.*	Copper rollers or cylinders for printing.
1485	10*d.*	Machines for cutting hay, straw, &c.
1486	1*s.* 5*d.*	Looms for weaving, &c.
1487	9*d.*	Regulating the recoil of springs used in railway engines, carriages, &c.
1488	6*d.*	Lamps.
1489	1*s.* 4*d.*	Machinery for turning metal shafting, &c.
1490	6*d.*	Spinning and doubling machinery.
1491	5*d.*	Electric telegraph cables or ropes.
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1521	3*d.*	Reels or spooling wheels.
1525	3*d.*	Treating sewage matter.
1527	3*d.*	Smoothing irons for linen, &c.
1661	7*d.*	Machinery for hulling and finishing rice, &c.
2068	7*d.*	Candlesticks or holders.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Day of Month.	Day of Week.	Morning.	Evening.	Total.
Jan. 31	Monday -	236	713	949—Fine.
Feb. 1	Tuesday -	190	613	803— „
„ 2	Wednesday	129	67	196— „
„ 3	Thursday -	78	—	78— „
„ 4	Friday -	63	—	63— „
„ 5	Saturday -	184	—	184— „
	Total -	880	1393	2273

Total number of visitors since the period of free daily admission (12th May, 1858) to 5th February, 1859, —65,516.

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No. 533. FRIDAY, FEBRUARY 11, 1859. Price 2d.

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2920. To ROBERT CLEGG, of Islington, in the county of Middlesex, FREDERICK ANGERSTEIN, of Kennington, in the county of Surrey, and GEORGE FERRY, of Hackney, in the said county of Middlesex, for the invention of "Improved mechanism for imparting reciprocating motion to machinery, and more especially pumps."

2924. And to MICHAEL RENNEY, of Queen Street, Dublin, Mechanical Engineer, for the invention of "Improvements in bridges."

On both their petitions, recorded in the Office of the Commissioners on the 22nd day of December, 1858.

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68. To EDWARD COBBOLD, of Hendon, in the county of Middlesex, Gentleman, for the invention of "Improvements in instruments for writing and marking, and for the preparation of certain substances for conversion into instruments for writing and marking, and for the application to useful purposes of certain products, arising from preparation aforesaid."

On his petition, recorded in the Office of the Commissioners on the 8th day of January, 1859.

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160. To PEHR AMBJORN SPARRE, of Stockholm, but now of 50, Chancery Lane, in the county of Middlesex, for the invention of "Improvements in the manufacture of paper, suitable for bank-notes, cheques, bills, and similar articles."

On his petition, recorded in the Office of the Commissioners, on the 19th day of January, 1859.

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190. To CHARLES O'HARA, of Toronto, Canada West, but now residing at No. 4, Upper Seymour Street, Hyde Park, in the county of Middlesex, Esq., for the invention of "Improvements in propellers, for propelling steam-boats, ships, and vessels."

On his petition, recorded in the Office of the Commissioners on the 21st day of January, 1859.

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202. To BENJAMIN TEMPLAR, of the city and county of Bristol, Dyer, for the invention of "Improvements in umbrellas and parasols."

204. To MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "Improvements in machinery or apparatus for manufacturing corks and bungs."—A communication from Messrs. Dalverny and Thouzellier, residing at Sommières, in France.

206. To THOMAS WEBSTER RAMMELL, of No. 16, Spring Gardens, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in atmospheric propulsion, and the structures, tubes, machinery, and apparatus applicable thereto."

208. And to RICHARD BARTER, of St. Ann's Hill, Blarney, in the county of Cork, Doctor of Medicine, for the invention of "Improvements in heating and ventilating buildings, and in apparatus connected therewith."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of January, 1859.

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209. To WILLIAM COLLETT HOMERSHAM, of Adelphi Terrace, Strand, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in floating gridirons or stages for repairing ships or other vessels."

210. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in the manufacture of cast steel and iron."

211. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement in the manufacture of cast steel."

212. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in pumps."—A communication from François Ruff, residing at Paris.

213. To Joseph Laubereau, of Paris, in the empire of France, Civil Engineer, for the invention of "Improvements in air engines."

214. To John Smith and William Henry Smith, of 8, Upper Fountain Place, City Road, in the county of Middlesex, Manufacturers, for the invention of "Certain improvements in manufacturing paper, and in producing watermarks, patterns, figures, letters, and devices thereon, and in the construction of the mechanism employed therein."

215. To John Savory, of 143, New Bond Street, Chemist and Druggist, and William Robert Barker, of the same place, Chemist, for the invention of "Improvements in bottles for medicines and poisons."

216. To John Fowler, junr., of Cornhill, Robert Burton, of Kingsland, in the county of Middlesex, David Greig, of New Cross, in the county of Kent, and Jeremiah Head, of Newcastle-on-Tyne, for the invention of "Improvements in agricultural implements, and in apparatus used for hauling agricultural implements by steam power."

217. To Arthur Warner, of 31, Threadneedle Street, in the city of London, and William Tooth, of Sumner Street, Southwark, in the county of Surrey, for the invention of "Improvements in the manufacture of iron and gases for such and other uses."

218. To John Guy Proger, of 13, Trinity Street, Cardiff, and David Davies, of Stuart Street, Bute Docks, Cardiff, in the county of Glamorgan, for the invention of "Improvements in lanterns used on board ship to signal to the steersman."

219. To the Right Honourable James, Earl of Caithness, of Hill Street, in the county of Middlesex, for the invention of "Improvements in parts of the permanent way of railways."

220. To Michael Swan, of Henstridge Villas, St. John's Wood, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in ballasting ships, applicable also to the extinguishing fires on board ships."

221. And to William Tasker the younger, of the Firm of William Tasker and Sons, of Waterloo Iron Works, near Andover, in the county of Hants, Engineers, for the invention of "Improvements in ploughs."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of January, 1859.

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223. To John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for cutting and shaping wood."—A communication from Peter H. Niles, residing at Boston, in the United States of America.

224. To Rudolph Bodmer, of 2, Thaives' Inn, Holborn, in the city of London, for the invention of "Improved resin and resinous substances."—A communication from Mr. Jean Creuseton, residing at Paris, in the empire of France.

225. To William Cutts, of Oldham, in the county of Lancaster, Engineer, for the invention of "Improvements in the manufacture of bobbins, spools, and cop tubes, and in the machinery employed therein."

226. To William Hodgson and Henry Hodgson, of Bradford, in the county of York, Tool and Machine Makers, for the invention of "Improvements in machinery or apparatus for preparing and spinning wool and other fibrous substances."

227. To John White, of Finchley, in the county of Middlesex, Surgeon, for the invention of "Improvements in means or apparatus to facilitate respiration under water, or under the influence of fire, or in other situations where an artificial supply of air may be required, part of which improvements is also adapted to facilitate movement in or upon the surface of water."

228. To William Andrews, of 30, Cornhill, in the city of London, Engineer of the Submarine Telegraph Company, for theinvention of "Improvements in electric telegraphs."

229. To Frederick John Jones, of Aldermanbury, in the city of London, Manufacturer, for the invention of "An improvement in shirt fronts."

230. To Henry Brecknell, of the city of Bristol, Brass Founder, and John Dyer, of the same place, Gentleman, for the invention of "Improvements in cocks and valves."

231. To Isaiah Woodcock, of Commercial Street, Spitalfields, in the county of Middlesex, Frame Manufacturer, for the invention of "Improvements in barometer and thermometer dials."

232. To Benjamin Joseph Spedding, of 9, Cross Street, Birkenhead, in the county of Chester, Patent Agent, for the invention of "Improvements in apparatus for generating and regulating gas, and for impregnating the same with volatile hydrocarbon fluids."

233. To Charles Grant Kelvey, of Rock Ferry, Birkenhead, in the county of Chester, and William Holland, of the same place, Chronometer Makers, for the invention of "An improved escapement for chronometers and other timekeepers."

234. And to William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in life preserving vests."—A communication from T. A. Dlano, residing in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 25th day of January, 1859.

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235. To William Richmond Alexander, of Glasgow, in the county of Lanark, North Britain, Merchant, for the invention of "Improvements in furnaces and apparatus for the manufacture of sugar, and for the consumption or prevention of smoke."

236. To Isaac Hammond, of the city of Winchester, in the county of Hants, Gun Maker, for the

invention of "Improvements in breech loading fire arms, and in cartridges to be used therewith."

237. To Obed Hussey, of Baltimore, United States of America, for the invention of "Improvements in the construction of ships' blocks."

238. To David Graham, of the firm of Graham, West, and Company, of Wapping, in the county of Middlesex, Millwrights and Engineers, for the invention of "An improved method of driving centrifugal machines."—A communication from T. Hanning, residing in the Mauritius.

239. To Jonas Wells, of Keighley, in the county of York, Brass Founder, and William Clough, of Sutton, near Keighley aforesaid, Millwright, for the invention of "An improved coupling for railway carriages and analogous uses."

240. To Frederick Carl Christian Paulsen and Albin Alsing, both of Emmett Street, Limehouse, in the county of Middlesex, for the invention of "Improvements in preparing beverages usually called punch."

241. To Mark Fernandez, of No. 2, Devonshire Square, Bishopsgate Street Without, in the city of London, Merchant, for the invention of "Improvements in straw and hay cutters."

242. And to James Kerr, of 17, Bedford Terrace, Trinity Square, Southwark, in the county of Surrey, Engineer, for the invention of "Improvements in the construction of revolving fire-arms."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of January, 1859.

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243. To James Mercer, of Boston, in the state of Massachusetts, United States America, temporarily residing at Liverpool, in the county of Lancaster, Currier, for the invention of "Improvements in the process of currying leather."—A communication from Mr. Joseph Armstrong, Currier, residing in the county of Middlesex, and state of Massachusetts, America.

244. To Wilson Ager, of Rhorsburg, in the county of Columbia, state of Pennsylvania, United States of America, for the invention of "Improvements in machinery for cleaning rice."

245. To Thomas Hartshorne, of West Bromwich, in the county of Stafford, Brassfounder, for the invention of "An improved metal to be used for making journey brasses for mills, rollers, forges, and all kinds of shafts and machinery, and also for shipping and for bearings for shafts and journey brasses in general."

246. To Elijah Dixon, of Preston, in the county of Lancaster, Mechanic, and Henry Whittaker, of the same place, Mechanic, for the invention of "Improvements in apparatus used in weaving textile fabrics."

47. To James Meacham, of Birmingh am, in the county of Warwick, for the invention of "Improvements in pens and penholders."

248. To Henry Duncan Preston Cunningham, of Bury, near Gosport, in the county of Hants, Esq., for the invention of "An improvement in the rig of ships or vessels."

249. To Henry Rawson, of Leicester, for the invention of "Improvements in machinery for preparing wool and other fibrous substances."

250. To James Buckingham, of Walworth Common, in the county of Surrey, Civil Engineer, and George Salt, of Saltaire, near Bradford, in the county of York, Manufacturer, for the invention of "Improvements in the construction and adaptation of drawing and other rollers employed in drawing and compressing fibres, which improved construction of rollers is also applicable in compressing fabrics."

251. To Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in the manufacture of biscuits."—A communication from Messrs. Pascal and Sirben, residing at Toulouse, département de la Haut Garonne, in the empire of France.

252. To George Francis Bradbury, of Oldham, in the county of Lancaster, and Joseph Jackson King, of Glasgow, in the county of Lanark, North Britain, for the invention of "Improvements in certain apparatus applicable to sewing machines."

253. To William Crowther, of Leeds, in the county of York, Manufacturing Chemist, for the invention of "Improvements in the manufacture of prussiates of potash or soda, and in recovering a useful material therefrom."

254. And to James Gathercole, of Bath Terrace, Camberwell, New Road, in the county of Surrey, Gentleman, for the invention of "Improved machinery for manufacturing envelopes and paper bags."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of January, 1859.

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255. To Ignazio Zacheroni, native of Italy, residing at Liverpool, in the county of Lancaster, Artist, for the invention of "An improved mode or method of preventing the escape of smoke into the atmosphere, and in the construction of chimney 'pots' or 'tops' for curing smoky chimneys."

256. To William Robertson, of the city of Manchester, in the county of Lancaster, Mechanician, for the invention of "A new apparatus for propelling boats on canals, rivers, and lakes of moderate depth."

257. To George Bartholomew, of the town and county of Linlithgow, North Britain, Edge Tool Maker, for the invention of "Improvements in shoes for horses and other animals requiring such shoes, and in the means of attaching the same to the feet."

258. To Charles Edwards Amos, of the Grove, in the borough of Southwark, Engineer, and John Francis, of Bangor, in North Wales, Engineer, for the invention of "Improvements in water pressure engines, and their application to pumping machinery."

259. To Frederick Prince, of 138, New Bond Street, in the county of Middlesex, Gunmaker, for the invention of "A new breech loading gun."

260. To William Yates, of Mary Street, Bromley, in the county of Middlesex, Engineer, for the invention of "Improvements in furnaces."

261. To Robert Griffiths, of No. 69, Mornington Road, in the county of Middlesex, for the invention of "Improvements in regulating the pressure

of steam in steam-boilers, and in preventing the accumulation of deposit therein."—Partly a communication from Charles Nelson Copeland, residing at New York.

262. To HENRY WATSON, of High Bridge Works, Newcastle-upon-Tyne, for the invention of "Improvements in the manufacture of Knotter-plates, used in the manufacture of paper."

263. And to ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, for the invention of "Improvements in obtaining and distributing or applying electricity and magnetism."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of January, 1859.

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264. To LOUIS LEISLER, of Glasgow, in the county of Lanark, North Britain, Merchant, for the invention of "Improvements in extracting metallic copper from the pyrites residuum of vitriol works, and from other substances."—A communication from Doctor Hasenclever, residing at Aix-la-Chappel, in Prussia.

265. To JOSIAH LANE, of West Bromwich, in the county of Stafford, Machinist, for the invention of "New or improved machinery for the manufacture of screws, and for tapping nuts for screws."

266. To JAMES MACKENZIE, Manager to William Strode, of Saint Martin's-le-Grand, in the city of London, Gas Engineer, for the invention of "An improved method of operating ventilating valves, especially applicable to ventilating gas burners."

267. To JOSEPH MARINO, of the city of Stockholm, in the kingdom of Sweden, Mechanician, for the invention of "An inodorous closet or commode."

268. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, Saint Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improvements in apparatus applicable to measuring, regulating the pressure of, and consuming gas for illumination."—A communication from J. M. Legris, residing at Paris, in the empire of France.

269. To HENRY GRISSELL, of Regents Canal Iron Works, Eagle Wharf Road, in the county of Middlesex, Engineer, for the invention of "Improvements in machinery for moving ships or vessels on slips or inclined ways."

271. And to JAMES MEACHAM, of Birmingham, in the county of Warwick, for the invention of "Improvements in apparatus for clasping and closing books, purses, reticules, and other similar articles, and for retaining and securing paper documents, letters, bills, and other memoranda."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of January, 1859.

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272. To THOMAS PLUNKETT SMITH, of Stanmore, in the county of Middlesex, Schoolmaster, for the invention of "An apparatus for guiding or directing the pen or pencil in writing or drawing."

274. To JOHN RAYWOOD, Engineer, of Wentworth, in the county of Yorkshire, for the invention of "Certain improvements in the construction and method of working sewing machines."

276. To JAMES ROBERTSON, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in details, by which motive force is transmitted in machinery."

278. And to JOHN PETER BOOTH, of Cork, in the kingdom of Ireland, Feather Factor, for the invention of "Improvements in ventilating ships."

On their several petitions, recorded in the Office of the Commissioners on the 31st day of January, 1859.

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280. To JOSEPH GRIMOND, of the city of Manchester, in the county of Lancaster, Manufacturer, for the invention of "Improvements in the manufacture of hearth rugs."

282. To JOHN HOSKING, of No. 5, Catherine Terrace, Gateshead-on-Tyne, in the county of Durham, and THOMAS COCK, of Cleator-Moor, near Whitehaven, in the county of Cumberland, for the invention of "Improvements in furnaces or fire places."

286. To MARY ANN WALKER, of the firm of Charlotte and Mary Ann Walker, trading under the name of Richard Walker, as Percussion Cap Manufacturers, of Graham Street, Birmingham, in the county of Warwick, and RICHARD WALKER, Manager of the said works, also of Birmingham as aforesaid, for the invention of "Certain improvements in the manufacture of percussion-caps, and in the apparatus for effecting certain parts of the same."

288. To THOS. PARAMORE PURSSGLOVE, Battersea, Surrey, for the invention of "Improvements in barometers."

292. To CHARLES CROCKFORD, of Holywell, Flintshire, Smelter, for the invention of "A mode or method of producing metallic sulphates."

294. And to EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the county of Essex, Ironfounder, for the invention of "Improvements applicable to machinery for grinding or pulverizing various substances."

On their several petitions, recorded in the Office of the Commissioners on the 1st day of February, 1859.

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296. To EDWARD ELLIS ALLEN, of Brompton Row, in the county of Middlesex, Engineer, for the invention of "Improvements in stereoscopic apparatuses."

298. To ROBERT LANCASTER, of Orrell, near Wigan, in the county of Lancaster, Mining Engineer and Viewer, for the invention of "An improved mode of ventilating coal and other mines."

300. To JOSEPH ROCK COOPER, of Birmingham, in the county of Warwick, Gun Manufacturer, for the invention of "Improvements in breech loading fire arms."

302. To JOHN BUNCHER, of Birmingham, in the county of Warwick, Brass Founder, for the invention of "Improvements in the manufacture of eyes or fastenings for stair rods."

304. To JOHN HIRST, junior, of Dobscross, in Saddleworth, in the county of York, Merchant, and JAMES HOLLINGWORTH, of the same place, Joiner, for the invention of "Improvements in the construction of power looms."

306. And to Henry Fridlington Kemp, and William Skey, of the Root Distillery, Louth, Lincolnshire, for the invention of "An improved food for cattle."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of February, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given that the petition of

325. Jacques Marie Edouard Masson, of Rue des Fossés, St. Thomas Evreux, France, Gentleman, praying for Letters Patent for the invention of "Improvements in apparatus to facilitate working under water," was deposited and recorded in the Office of the Commissioners on the 4th day of February, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

11*th February*, 1859.

1824. John Talbot Pitman, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention of "An improved mode of operating apparatus for lifting and pressing."—A communication from a Foreigner residing abroad.—Dated 11th August, 1858.

1826. Robert Clark Gist, Gentleman, of 36, Cannon Street, in the city of London, for an invention of "Improvements in knitting machines."—A communication from a Foreigner residing abroad.—Dated 11th August, 1858.

1840. Robert Jobson, of Wordsley, in the county of Stafford, Ironfounder, for an invention of "Improvements in apparatus used when making moulds for casting shells and other articles."—Dated 12th August, 1858.

1842. Robert Jobson, of Wordsley, in the county of Stafford, Ironfounder, for an invention of "Improvements in apparatus for supplying water to axle-tree boxes, and other journal bearings, to lubricate the same."—Dated 12th August, 1858.

1844. Robert Jobson, of Wordsley, in the county of Stafford, Ironfounder, for an invention of "Improvements in apparatus for crushing and sifting."—Dated 12th August, 1858.

1845. William Beaumont Nortcliffe, of Fell Grove, near Huddersfield, in the county of York, Dyer, for an invention of "An improvement in dyeing woollen, worsted, cotton, silk, linen, and other textile fabrics, and fibrous substances."—Dated 13th August, 1858.

1848. Charles Llewellyn Light, of Pall Mall East, in the county of Middlesex, Engineer, for an invention of "Improvements in electric telegraph ropes or cables."—Dated 13th August, 1858.

1850. John Petrie, junior, of Rochdale, in the county of Lancaster, Ironmonger, for an invention of "Improvements in machinery or apparatus for stretching and drying woven fabrics."—Dated 13th August, 1858.

1851. Thomas Worth, of Rochdale, in the county of Lancaster, Wire Card Maker, and Henry Spencer, of the same place, Agent, for an invention of "Improvements in machinery or apparatus for preparing for spinning, and for spinning cotton and other fibrous materials, in winding and warping yarns of the said materials, and in making wire cards for such preparing machinery."—Dated 13th August, 1858.

1855. John Cartmel, of Stamford Street, in the county of Surrey, Hat Manufacturer, for an invention of "Improvements in the manufacture of hats, caps, and other coverings for the head."—Dated 14th August, 1858.

1857. Joseph Holt, of Shelf, near Halifax, in the county of York, Mechanic, for an invention of "Improvements in looms for weaving."—Dated 14th August, 1858.

1858. James Smith, of Seaforth, near Liverpool, in the county of Lancaster, Gentleman, and Sydney Arthur Chease, of Liverpool aforesaid, Gentleman, for an invention of "Improved arrangements for obtaining and applying motive power."—Dated 14th August, 1858.

1860. Samuel Cunliffe Lister and James Warburton, of Manningham, in the county of York, for an invention of "Improvements in dying wool, hair, cotton flax, and similar materials, also yarns and textile fabrics made from such materials, also in dying and tanning other substances and materials, also in washing wool, and in discharging the gum from silk."—Dated 14th August, 1858.

1879. Jozé Luis, Patent Agent, of No. 1 B, Welbeck St., Cavendish Sqre., London, in the county of Middlesex, for an invention of "A new safety system for preventing an accidental discharge in fire arms."—A communication from a Foreigner residing abroad.—Dated 18th August, 1858.

1885. Alexander Pilbeam, Architect, 2, Lonsdale Place, Notting Hill, for an invention of "A bradawl screw."—Dated 19th August, 1858.

1918. William Horatio Harfield, of Fenchurch Street, in the city of London, for an invention of "Improvements in windlasses."—Dated 23rd August, 1858.

1954. James Dupré Brabazon, of Lanes Hotel, St. Albans Place, Haymarket, Esquire, for an invention of "Improvements in giving motion by sails to screw and other propellers of ships and vessels."—Dated 28th August, 1858.

1988. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the manufacture of alumina."—A communication from M. Le Chatelier, Mining Engineer, residing at Paris, in the empire of France.—Dated 1st September, 1858.

2001. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "Improvements in knitting machinery."—Dated 3rd September, 1858.

2111. Thomas Vicars, senior, Thomas Vicars, junior, and Thomas Ashmore, Engineers, and James Smith, Baker, all of Liverpool, in the county palatine of Lancaster, for an invention of "Improvements for the consumption of smoke in moveable furnaces or chauffers for heating bakers'

and other like ovens."—Dated 18th September, 1858.

2321. Charles West, 15, Mornington Place, Camberwell New Road, London, for an invention of "Improvements in the mode of insulating and covering wire."—Dated 18th October, 1858.

2633. Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "Improvements in fire-arms and ordnance, and in the projectiles to be used therewith."—A communication from Peter Rector Smith, of 2, Rue St. Appoline, Paris, in the empire of France, now residing in the United States of America.—Dated 20th November, 1858.

2701. Charles Burrell, of Thetford, in the county of Norfolk, Engineer, for an invention of "Improvements in traction engines and carriages."—Dated 27th November, 1858.

2720. Caleb Bedells, of Leicester, for an invention of "Improvements in the manufacture of elastic fabrics, and the machinery employed in this manufacture."—Dated 29th November, 1858.

2776. Edouard Aristide Servier, of Paris, in the empire of France, Engineer, for an invention of "Improvements in pressure and fluid level indicators."—Dated 4th December, 1858.

2839. George Fergusson Wilson, of Belmont, Vauxhall, in the county of Surrey, for an invention of "Improvements in the manufacture of lubricating oils."—Dated 10th December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 9th February*, 1859, *inclusive.*)

7th February.

452. John Sharp Cromartie Heywood, of Battle Bridge, in the county of Middlesex, and George Lloyd, of Great Guildford Street, Southwark, in the county of Surrey, for an invention of "Improvements in condensing vapours in distillatory operations, the manufacture of varnishes, melting and distilling of fats, and other manufacturing or chemical operations, and obtaining useful products therefrom."—Dated 22nd February, 1856.

8th February.

356. Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London, Civil Engineer, for an invention of "Improvements in the manufacture of malleable or bar iron and steel."—Dated 12th February, 1856.

359. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in the manufacture of cast steel."—A communication.—Dated 12th February, 1856.

9th February.

345. John Wallace Duncan, of Grove End Road, St. John's Wood, in the county of Middlesex, Gentleman, for an invention of "Improvements in or connected with apparatus for the generation and application of steam for impelling purposes."—Dated 9th February, 1856.

366. Samuel Fox, of Stocks Bridge, in the parish of Peniston, in the county of York, Wire Manufacturer, for an invention of "Improvements in springs for railway and other carriages."—Dated 13th February, 1856.

FOREIGN PATENTS.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1858.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

5487. Jean Honoré Lavigne, represented by Barrault, of 33, Faubourg St. Martin, Paris, for "A kind of gridiron."—Dated 4th December, 1858.

5488. Emile Honoré Diot, of 25, Rue de Bucy, Paris, a Certificate of Addition to his Patent of 27th April, 1858, for "Improvements in ladies' bonnets."—Dated 4th December, 1858.

5489. Henri Gresle, of 231, Rue St. Martin, Paris, a Certificate of Addition to his Patent of 25th June, 1858, for "A process for lubricating machines."—Dated 4th December, 1858.

5490. Jacques Warne and Fanshawe, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An improved tissue for coating boards, walls, and for other similar purposes."—Dated 4th December, 1858.

5491. Hamm, Fischer, and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of wooden boxes or cases."—Dated 4th December, 1858.

5492. Jean François Guétel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for burnishing friezes of inlaid floors."—Dated 4th December, 1858.

5493. Mathieu Carmine, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A smoke-consuming calorifere stove with a reversed bell."—Dated 4th December, 1858.

5494. Drayson and Binney, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in cables of submarine and subter-

* For the French Patent Law see No. 228 of this Journal.

raneous telegraphs."—Dated 4th December, 1858. —(English Patent, expiring 18th October, 1872.)

5495. Auguste Prouvost, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 22nd December, 1856, for "Improvements in the arrangement of steam generators."—Dated 4th December, 1858.

5496. Jean Pierre Napoléon Leras, domiciled with Armengaud, senr., of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 26th August, 1854, for "Improvements in heating apartments."—Dated 4th December, 1858.

5497. John Bethell, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in apparatus for preparing timber."—Dated 4th December, 1858.

5498. Charles Auguste Sandoz, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A stereoscope with circulating and alternating views."—Dated 4th December, 1858.

5499. Martial Pidault, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 23rd May, 1857, for "An improved revolving pistol."—Dated 4th December, 1858.

5500. X. Meyer and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Arrangements in generators with a common fire."—Dated 4th December, 1858.

5501. Henri Ignace de Roux, of 27, Rue St. Lazare, Paris, for "Letter envelopes."—Dated 4th December, 1858.

5502. Louis Aléxandre Joseph Bruet, of 7, Rue Lepelletier, Paris, for "An instrument called 'trino-chrometer, or trichronometer.'"—Dated 4th December, 1858.

5503. Joseph Louis Fillion, represented by Daubréville, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 21st May, 1858, for "Manufacture of wood pasteboard-boxes, &c."—Dated 6th December, 1858.

5504. François Trarieux, represented by Daubréville, of 23, Boulevart de Strasbourg, Paris, for "Improvements in pumps worked by horse gins."—Dated 6th December, 1858.

5505. Charles Victor Beslay, of 52, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 21st July, 1858, for "A process for tinning metals."—Dated 6th December, 1858.

5506. Pierre Léonard Marc Debain, of 132, Boulevart du Mont-Parnasse, Paris, for "Applying compressed air to industrial purposes."—Dated 6th December, 1858.

5507. Jean Baptiste Poussin, domiciled with Barbier, of 55, Rue Bourbon-Villeneuve, Paris, for "A lime-kiln."—Dated 6th December, 1858.

5508. Caussade and Barrère, of 12, Rue Dugay-Trouin, Paris, for "A sewing machine."—Dated 6th December, 1858.

5509. Adolphe Chabert, of 35, Rue de Javel, Grenelle, for "A kind of metre for tailors."—Dated 6th December, 1858.

5510. Fourny, alias Auguste Pierre Dulys, of 35, Rue de Meaux, La Villette, for "An atmospheric wheel."—Dated 6th December, 1858.

5511. Guillaume Félix Aroux, domiciled with Desprez and Latour, of 2, Rue de la Feuillade, Paris, for "An apparatus for furrowing the soil before sowing."—Dated 6th December, 1858.

5512. Henry Rogers, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the construction of electric telegraph cables or conductors."—Dated 6th December, 1858.

5513. Alfred Vervoort, of 34, Rue Notre Dame de Lorette, Paris, a Certificate of Addition to his Patent of 6th October, 1858, for "Applying photography to all kinds of screens, &c."—Dated 7th December, 1858.

5514. Louis Adam Colin, of 28, Rue Caumartin, Paris, a Certificate of Addition to his Patent of 28th September, 1850, for "Improvements in the construction of pianos."—Dated 7th December, 1858.

5515. Guillaume Félix Aroux, of 2, Rue de la Feuillade, Paris, for "An agricultural pressing cylinder."—Dated 7th December, 1858.

5516. Charles Mollingre, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "An apparatus for vapour-baths."—Dated 7th December, 1858.

5517. Hilaire Alphonse Hardon, represented by Herpst, of 39, Rue de l'Echiquier, Paris, a Certificate of Addition to his Patent of 29th December, 1857, for "A system of framework."—Dated 7th December, 1858.

5518. Guillaume Félix Aroux, of 2, Rue de la Feuillade, Paris, for "A compressing cylinder with multiple wheels."—Dated 7th December, 1858.

5519. Derudder, Rousson, and Samin, represented by Dujarrier, of 11, Faubourg St. Martin, Paris, for "A system of fancy chairs."—Dated 7th December, 1858.

5520. Georges Manin, of 24, Rue Neuve Coquenard, Paris, for "Railway signals."—Dated 7th December, 1858.

5521. Charles Callebaut, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 27th February, 1854, for "Improvements in sewing machines."—Dated 7th December, 1858.

5522. Hippolyte Adien Mutelle, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of motive levers, especially for working tenders, railway-carriages, &c., and being also applicable to other purposes."—Dated 7th December, 1858.

5523. Russery and Lacombe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 2nd November, 1854, for "A process for manufacturing cranked axles."—Dated 7th December, 1858.

5524. Astley Paston Price, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd October, 1857, for "Improvements in the manufacture of zinc."—Dated 7th December, 1858.

5525. Lees and Jaques, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the means of generating steam and economizing fuel."—Dated 7th December, 1858.—(English Patent, expiring 3rd July, 1872.)

5526. Pierre Adolphe Maury, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 3rd June, 1857, for "A machine for cutting velvet."—Dated 7th December, 1858.

5527. Eugène Emile Pinot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Vessels with a moveable bottom for keeping pomatum."—Dated 7th December, 1858.

5528. Aléxandre Louis Pouget, of Tours, département d'Indre-et-Loire, a Certificate of Addition to his Patent of 4th July, 1857, for "A self-acting apparatus for registering the exact time spent by passengers in carriages."—Dated 7th December, 1858.

5529. Antoine Bichler, of 4, Rue de l'Union, Marseille, département des Bouches du Rhône, for "A continuous filter."—Dated 8th December, 1858.

5530. Alphonse Joly, of Grenoble, département de l'Isère, a Certificate of Addition to his Patent of 23rd October, 1858, for "A system of fixed signals worked by electricity, &c."—Dated 9th December, 1858.

5531. Casimir Auguste Gaude, of 5, Rue des Précheurs, Toulon, département du Var, for "A mode of shipping liquids by means of a pump-syphon."—Dated 10th December, 1858.

5532. Alphonse Pellouin, of Flers, département de l'Orne, for "A double loom for simultaneously weaving two warps."—Dated 18th December, 1858.

5533. André Morel, of Mosnières, département du Nord, for "Modifications in substances used for discolouring juice and syrups."—Dated 3rd December, 1858.

5534. Georges Frédéric Black, of St. Olle-les-Cambray, département du Nord, for "A system of bringing the safety apparatus of steam-boilers within the sight of the firemen."—Dated 3rd December, 1858.

5535. Aléxandre Vallet, of Ponthion, département de la Marne, for "Aerostatic or compressed air paillasses and mattresses."—Dated 9th Decem-1858.

5536. BarthélemyBurlat, of Longes, département du Rhône, for "A metallic motor applicable to all kinds of machines."—Dated 10th December, 1858.

5537. Vial and Garnier, of Grande Rue de la Guillotière, Lyon, département du Rhone, a Certificate ofAddition to their Patent of 24th February, 1858, for "Manufacture of open-worked and solid wheels for locomotives and railway-carriages."—Dated 11th December, 1858.

5538. Allemand and Pierre Darmet, of 19, Quai de Bondy, Lyon, département du Rhône, for "A liquid for destroying insects."—Dated 11th December, 1858.

5539. Auguste Henri Petiteau, of 42, Rue de la Scellerie, Tours, département d'Indre-et-Loire, a Certificate of Addition to his Patent of 16th February, 1857, for "An oven for baking pastry and bread."—Dated 7th December, 1858.

5540. Jules Parfait and Joseph Honoré Petit, domiciled with the former, 1, Rue des Tauxelles, Troyes, département de l'Aube, for "A kind of locks."—Dated 11th December, 1858.

5541. Jules Parfait and Joseph Honoré Petit, domiciled with the former, 1, Rue des Tauxelles, Troyes, département de l'Aube, for "A kind of lock."—Dated 11th December, 1858.

5542. Guillaume Barthélemy, of Lormont, Banlieu de Bordeaux, département de la Gironde, for "A mechanism for windlasses."—Dated 11th December, 1858.

5543. Claude Feboret, of 4, Rue Magdeleine, Dijon, département de la Côte d'Or, for "Letter-envelopes showing the postmark on the inside letter."—Dated 10th December, 1858.

5544. Emile Haunet, of 10, Rue St. Brice, Reims, département de la Marne, for "Means of destroying insects in general, their eggs and larvae, and especially the eggs and larvae of the pyrial, destroying vines."—Dated 11th December, 1858.

5545. Stehelin and Co., of Bitschwiller, département du Haut Rhin, for "Improvements in the construction of heating apparatus."—Dated 13th December, 1858.

5546. Charles Terrier, of 2, Place Henri IV., Lyon, département du Rhône, for "An apparatus for cooling and pumping liquids from cellars into the upper stories."—Dated 13th December, 1858.

5547. Hector Penassio, of Undelys, département de l'Eure, for "A multiple spindle for twisting and doubling textile or filamentous substances and especially silk."—Dated 13th December, 1858.

5548. François Marie Gaud, of 4, Rue Belly, Lyon, département du Rhône, for "A system of candle matches."—Dated 13th December, 1858.

5549. Binard and Tamaselle, of Burgerac, département de la Dordogne, for "A machine for mincing meat."—Dated 14th December, 1858.

5550. François Leblanc, of Neuville sur Saône, département du Rhône, for "Improvements in skidding railway trains by means of their weight."—Dated 14th December, 1858.

5551. Frédéric Kuhlmann, of Lille, département du Nord, a Certificate of Addition to his Patent of 20th October, 1856, for "A process for manufacturing baryta, strontian, and their salts, &c."—Dated 14th December, 1858.

5552. Henri Henroz, represented by Delhaye, of Teumont, département du Nord, for "Improvements in glass furnaces."—Dated 15th December, 1858.

5553. Louis Pineill, of 5, Rue du Fours St. Jacques, Perpignan, département des Pyrenées Orientales, for "A system of tubing artesian wells."—Dated 10th December, 1858.

5554. Procope Boudin, of Aix en Othe, département de l'Aube, for "A system of needles for circular or rectilinear frames for making ribbed hosiery articles."—Dated 14th December, 1858.

5555. Alfred Eugène Mareuze, of Anizy le Château, département de l'Aisne, for "Defecating beetroot."—Dated 15th December, 1858.

5556. Louis Delauzun, of Oron, for "A coffee mill with slides."—Dated 4th December, 1858.

5557. Constant Verger, of 22, Rue des Fossés St. Georges, Tours, département d'Indre et Loire, for "Metal socles applicable to funeral crosses."—Dated 11th December, 1858.

5558. Jean Louis Chambon, of Lavoutte, département de l'Ardèche, for "An elastic spring mattress."—Dated 15th December, 1858.

5559. Servais Delseaux, of 27, Rue du Curé St. Sauveur, Lille, département du Nord, for "A steam moderator."—Dated 17th December, 1858.

5560. Jouannin and Co., represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in machines for making fishing-nets."—Dated 7th December, 1858.

5561. John Broughton, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in slides of steam engines."—Dated 7th December, 1858.

5562. Sébastien Ley, of 2, Rue de la Fidélité, Paris, for "A system of gas-burners."—Dated 8th December, 1858.

5563. John Bethell, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of alum."—Dated 8th December, 1858.—(English Patent, expiring 3rd June, 1872.)

5564. Des Mazis and Du Chastaingt, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in baking tins for bakers."—Dated 8th December, 1858.

5565. Christophe Jacquot, of 22, Rue La Fayette, Paris, for "A system of holders of petticoats."—Dated 8th December, 1858.

5566. Frédéric Alphonse Lampérière, domiciled with Cretey, of 32, Rue de Grenelle St. Honoré, Paris, for "A system of soles and heels for foot coverings."—Dated 8th December, 1858.

5567. John Ericsson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in air engines."—Dated 8th December, 1858.

5568. John Robertson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in musical instruments."—Dated 8th December, 1858.—(English Patent, expiring 17th November, 1872.)

5569. Messrs. Huse, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An improved apparatus for propelling and governing vessels."—Dated 8th December, 1858.

5570. Sébastien Grandis, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of railway wedges."—Dated 8th December, 1858.—(Sardinian Patent, expiring 19th November, 1872.)

5571. Stephens, jun., and Jenkins, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of rails of railways."—Dated 8th December, 1858.

5572. Ernest Courade de Caranza, of 97, Rue Neuve des Petits Champs, Paris, for "A system of furnaces for manufacturing lighting gas, and apparatus for purifying the same."—Dated 8th December, 1858.

5573. Pierre Fosse, of 106, Route d'Orléans, Montrouge, for "Brick flag-stones of printed baked clay."—Dated 8th December, 1858.

5574. Charles Hippolyte Mourceau, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of carpets for furniture."—Dated 8th December, 1858.

5575. Sellerier and Mrs. Grazon, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to their Patent of 24th September, 1858, for "Applying a substance for supporting dressing articles of ladies."—Dated 8th December, 1858.

5576. Guinnebrrt and Morel, the former of 20, Rue de la Harpe, the latter of 8, Rue du Renard St. Saveur, Paris, for "Manufacture of chlorine."—Dated 8th December, 1858.

5577. François Cavayé, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 7th July, 1857, for "A swimming apparatus."—Dated 8th December, 1858.

5578. Pierre Antoine de Gemini, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 17th December, 1857, for "A process for inserting wicks into candles."—Dated 8th December, 1858.

5579. Xavier Lenormand, represented by Amouroux, ef 333, Rue St. Martin, Paris, for "Improvements in corn-mills."—Dated 9th December, 1858.

5580. Michel Laurent Abadie, of 5, Rue du Parc Royal, Paris, for "A kind of matches."—Dated 9th December, 1858.

5581. Van Burer Ryerson, represented by Fleischman, of 27, Boulevart des Italiens, Paris, for "Improvements in submarine works."—Dated 9th December, 1858.—(American Patent, expiring 19th October, 1872.)

5582. George Joseph Oudotte, of 83, Rue d'Allemagne, and of 14, Passage Montier, Petite Villette, for "A system of mechanical horses and carriages."—Dated 9th December, 1858.

5583. Hiram Hutchinson, of 102, Rue Richelieu, Paris, for "A mode of obtaining figures or designs on stuffs, leather, or other tissues, by means of india rubber or other similar substances."—Dated 9th December, 1858.

5584. Emile Armand Meudt, of 24, Rue des Lilas, Belleville, for "A system of heating."—Dated 9th December, 1858.

5585. Julien Aléxandre Alphonse Bonnin, of 59, Rue de Grenelle, St. Germain, for "Assembling cast-iron pipes, by means of conical dovetails with screw ribs, for the conveyance of water or gas, and which may be mounted and unmounted in a cold state."—Dated 9th December, 1858.

5586. François Régis Fialon, of 29, Rue du Mail, Paris, for "Ladies' bonnets of esparto of one single piece, and without frame."—Dated 9th December, 1858.

5587. George Edward Chenoweth, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in harvesting machines."—Dated 9th December, 1858.—(English Patent, expiring 30th March, 1872.)

5588. Emile Victor Michel Enault, of 29, Rue Montorgueil, Paris, for "Leather springs, being a

substitute for steel springs in petticoats."—Dated 9th December, 1858.

5589. Joseph Jean Marcais, of 132, Rue de Rivoli, Paris, for "Arrangements in Bunsen's battery, and mode of fixing the diaphragms of fulminating paper, and applying the same to Daniel's battery."—Dated 10th December, 1858.

5590. Hippolyte Lecornu, represented by Dufay, of 110, Rue de Rivoli, Paris, for "An hydropneumatic mill."—Dated 10th December, 1858.

5591. John Bethell, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in purifying coal gas."—Dated 10th December, 1858.

5592. John Bradley Lloyd, with Favie, of 12, Rue du Faubourg St. Martin, Paris, for "A process for rolling sheet-iron."—Dated 10th December, 1858.

5593. Jean Francisque Antonin Gravier, of 45, Avenue de Clichy, Batignolles, for "A rotary knitting machine."—Dated 10th December, 1858.

5594. Charles Adolphe Baudry, of 15, Rue Malher, Paris, for "A system of cartridge-boxes."—Dated 10th December, 1858.

5595. Messrs. Fontaine, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mode of cutting gloves."—Dated 10th December, 1858.

5596. Jean Baptiste Falguière, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 10th September, 1857, for "A system of mills with vertical millstones, worked at a great speed."—Dated 10th December, 1858.

5597. Price Griffiths, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of coupling-boxes and keys for fastening drums, pulleys, fly-wheels, &c. on axles."—Dated 11th December, 1858.—(English Patent, expiring 25th May, 1872.)

5598. Louis Charles Riottot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 21st November, 1857, for "Improvements in penholders, pencil-cases, &c."—Dated 11th December, 1858.

5599. Félix Stanislas Mongelard, of 6, Rue de Singer, Passy, for "A puzzle mechanism applicable to cigar-cases, &c."—Dated 11th December, 1858.

5600. François Blanckhart, represented by Libert, of 4, Rue Cadet, Paris, for "Breech-loading guns."—Dated 11th December, 1858.

5601. Pierre Carmien, of 31, Rue de Bretagne, Paris, a Certificate of Addition to his Patent of 9th November, 1858, for "An hour-glass, for regulating electrical clocks."—Dated 11th December, 1858.

5602. Mrs. Legras-Deschamps, of Boulevart de la Gare d'Ivry, Commune d'Ivry, for "A powder for improving the skin."—Dated 11th December, 1858.

5603. Léonard François Lion, of 15, Rue de Gavel, Grenelle, for "A machine for making riveted pins for foot-coverings."—Dated 11th December, 1858.

5604. Napoléon Marc, of 7, Rue Ferdinand, Faubourg du Temple, Paris, a Certificate of Addition to his Patent of 16th December, 1857, for "A process for manufacturing waddings."—Dated 11th December, 1858.

5605. Pierre Averseng, of 42, Rue St. Eustache, Paris, for "Elastics for mattresses, seats, &c."—Dated 11th December, 1858.

5606. François Norbert Servais, of 215, Rue de Paris, Belleville, for "Artificial flowers on the upper part of fans."—Dated 11th December, 1858.

5607. Pierre Armand DeFontainemoreau, of 5, Rue Gailloy, Paris, for "Improvements in the treatment of fat, neutral, acid substances, &c."—Dated 11th December, 1858.

5608. Henri Louis Maril, of 10, Rue St. Ferdinand aux Ternes, a Certificate of Addition to his Patent of 12th October, 1858, for "Economical construction of pavilions and houses."—Dated 11th December, 1858.

5609. Rudolphe Wappenstein, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in the manufacture of artificial-whalebone for umbrellas, parasols, &c."—Dated 11th December, 1858.—(English Patent, expiring 8th June, 1872.)

5610. Auguste Gilles, of 203, Rue de Robec, Rouen, département de la Seine Inférieure, for "Floors of ovens for baking paste."—Dated 13th December, 1858.

5611. Messrs. Fraisse-Brossard, of Rue de la Paix, St. Etienne, département de la Loire, a Certificate of Addition to their Patent of 6th October, 1858, for "A system of dyeing velvet ribbons with all colours, and black tints."—Dated 16th December, 1858.

5612. Charles Gornet, of Troyes, département de l'Aube, for "A kind of pen-holder."—Dated 16th December, 1858.

5613. Jean Baptiste Hippolyte Manigler, of 1, Rue Royale, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 19th December, 1857, for "A means of applying caoutchouc varnish on metals and other corrosive substances."—Dated 16th December, 1858.

5614. Cassard and Terrolle, of 18, Quai Baco, Nantes, département de la Loire Inférieure, for "A machine for cutting, crushing, or triturating furze or similar plants."—Dated 17th December, 1858.

5615. Benjamin Leroux, of 7, Rue Boileau, Nantes, département de la Loire Inférieure, for "Drying and torrefying substances containing azote for agricultural purposes, so as to preserve their fertilizing power."—Dated 17th December, 1858.

5616. Claude Genevois, of Creusot, département de Saône et Loire, for "A system of screw-piston for tightening segments without removing the piston-plate."—Dated 18th December, 1858.

5617. Jean Baptiste Arthur Legros, of Tournan, département de Seine et Marne, for "An harvesting machine."—Dated 13th December, 1858.

5618. Etienne Jean Baptiste Mignan, of Melette, département de la Marne, a Certificate of Addition to his Patent of 19th December, 1857, for "A machine for destroying mice."—Dated 16th December, 1858.

5619. Pierre Jacques Théodore Jahan, of 65, Rue du Faubourg Bannier, Orléans, département du Loiret, a Certificate of Addition to his Patent of 5th December, 1856, for "A substitute for railway wedges and chairs."—Dated 17th December, 1858.

5620. Augustin Frédéric Brevard, of Tencin, département de l'Isère, for "Means of rendering vessels insubmersive, of extinguishing fires on board of vessels, and of raising sunken vessels."—Dated 18th December, 1858.

5621. Dujardin, of Lille, département du Nord, for "A printing apparatus applicable to manipulators of dial telegraphs of French railways, and to other purposes." — Dated 20th December, 1858.

5622. Jean Pierre Raissac, of 1, Place Maronne, Marseille, département des Bouches du Rhône, for "Manure which destroys insects."— Dated 13th December, 1858.

5623. Joseph Antoine Dalmas, of 44, Rue Haute Rotonde, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 21st April, 1858, for "Inodorous pans for closets."—Dated 14th December, 1858.

5624. Henry Duchesne, of 30, Rue Condé, Dijon, département de la Côte d'Or, for "A cravat shirt without buttons."—Dated 15th December, 1858.

5625. Aléxis Joseph Damey, of Dôle, département du Jura, for "Manufacture of nuts."—Dated 16th December, 1858.

5626. Auguste Monnier and Co., of 2, Rue Théars, Marseille, département des Bouches du Rhône, a Certificate of Addition to their Patent of 9th May, 1856, for "A recipient for feeding steam boilers with a solution of wood ashes for the purpose of dissolving the salts and tartar therein." —Dated 16th December, 1858.

5627. Antoine Banneau, of St. Sylvestre, département de Lot et Garonne, for "A harvesting machine for cutting corn."—Dated 17th December 1858.

2628. Jean Baptiste Aimé Boulenger, of Auneuil, département de l'Oise, a Certificate of Addition to his Patent of 11th February, 1858, for "Inlaid mosaic flagstones of baked clay."—Dated 17th December, 1858.

5629. Jean Baptiste Vellu, of Auxerre, département de l'Youne, for "Rocking carriages."—Dated 17th December, 1858.

5630. Géminien Luppi, of 14, Rue des Augustins, Lyon, département du Rhone, for "Improvements in machines for undoing and woofing the thread of cocoons by the same operation."—Dated 18th December, 1858.

5631. Schorb and Gerin, of 5, Rue de Jarente, Lyon, département du Rhone, for "A rotary steam engine with a double action."—Dated 20th December, 1858.

5632. Pierre Marie Thevenet, of 32, Rue Rupin, Lyon, département du Rhone, for "A machine for piercing metals."—Dated 20th December, 1858.

5633. Pozier and Gougault, of Sedan, département des Ardennes, for "Mastic for cylinders."—Dated 21st December, 1858.

5634. Ricci and Co., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of artificial wax flowers."—Dated 11th December, 1858.

5635. Delanoue, Leclère, and Cunat, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in syphons applicabls to apparatus for diluting absinthe and other liquids."—Dated 11th December, 1858.

5636. Théodore Félix Houpeaux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of cartridges." —Dated 11th December, 1858.

5637. Brondel and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certiffcate of Addition to their Patent of 22nd May, 1858, for "An apparatus for utilizing waste steam."—Dated 11th December, 1858.

5638. Guillaume Baltz, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A writing desk with mechanical arrangements."—Dated 11th December, 1858.

5639. Théodore Marie Rabatté, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for folding envelopes, paper bags, &c." —Dated 11th December, 1558.

5640. Jacques Etienne Feuillatre, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Sanitary pans for closets."— Dated 11fh December, 1858.

5641. Théodore Auguste Marie Sortais, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of telegraphic transmission."—Dated 11th December, 1858.

5642. Adolphe Durot, represented by Engel, of 31, Rue des Jeuneurs, Paris, for "Means of engraving cylinders for printing fabrics and paper."—Dated 13th December, 1858.

5643. Charles Calixte Grenier, of 12, Rue St. Claude au Marais, Paris, for "Rendering ropes impervious."—Dated 13th December, 1858.

5644. Louis Rolland, of 64, Rue du Château d'Eau, Paris, for "Hinges with stops."—Dated 13th December, 1858.

5645. Hugues Champonnois, of 8, Rue de la Tussienne, Paris, for "Extracting sugar from beetroot and other sacchariferous plants by means of alcohol."—Dated 13th December, 1858.

5646. Henri François Toussaint, of 5, Rue Bergère, Paris, for "Separating substances of the same volumen, according to their specific weight, by means of a column of water, and process for amalgamating those substances."—Dated 13th December, 1858.

5647. Jacques Noël Boneau, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Manufacture of a tissue for braces on a weaving machine."—Dated 13th December, 1858.

5648. Léon Briquet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Petticoats with moveable trimmings with or without tournure."—Dated 13th December, 1858.

5649. Alfred Christophe D'Yochet, represented by Bos-Darnis, of 39, Rue de l'Echiquier, Paris, a Certificate of Addition to his Patent of 12th December, 1856, for "Improvements in instruments for sinking artesian wells."—Dated 13th December, 1858.

5650. Joseph Hall, represented by Rowland, of 224, Rue de Rivoli, Paris, for "Improvements in slide clack valves of steam engines."—Dated 14th December, 1858.—(English Patent, expiring 12th June, 1872.)

5651. Jean Baptiste Jara Mignon, of 149, Rue Ménilmontant, Paris, for "A system of turntables."—Dated 14th December, 1858.

5652 Clair Frédéric Laurent, of 47, Rue de Sèvres, Paris, for "A kind of mosaic."—Dated 14th December., 1858.

5653. Lleyd and Edwards, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in aquaria, fish-ponds, basins, vessels, and recipients for keeping fish and live water animals, and water plants or products."—Dated 14th December, 1858.—(English Patent, expiring 17th July, 1872.)

5654. Miller and Fear, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A system and apparatus for winding thread of silk, cotton, or other filamentous or fibrous substances on bobbins for net and lace frames."—Dated 14th December, 1858.—(English Patent, expiring 18th November, 1872.)

5655. Paul Charles Charpantier, represented by Mathieu, of 45, Rue St. Sébastien, Paris. for "A subterraneous and external system of irrigation, applicable to agriculture and horticulture."—Dated 14th December, 1858.

5656. Petin, Gaudet, and Co., and Kreutzbergers, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Mechanical processes for boring guns."—Dated 14th December, 1858.

5657. Claude Desbeaux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 27th March, 1858, for "A piece of furniture for keeping books and drying cigars."—Dated 14th December, 1858.

5658. Favelier and Co., of 48, Rue Charlot, Paris, for "Applying ornamental stuffs on collars, bracelets, and glass trinkets."—Dated 14th December, 1858.

5659. Amand Blot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th November, 1854, for "Manufacture of gold, silver, and other rings."—Dated 14th December, 1858.

5660. Auguste François Chapiseau, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Silvering white metal, and applying that process to small and large gold articles."—Dated 14th December, 1858.

5661. Hermann and Rheinauer, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of lubricating axles of carriages and transmission arbors."—Dated 14th December, 1858.

5662. Jean François Fuzellier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of hinges, hasps, joints, &c."—Dated 14th December, 1858.

5663. Gabriel Edouard Fournier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 24th December, 1857, for "A boring system."—Dated 14th December, 1858.

5664. Guillaume Ferdinand de Doutret, of 16, Rue de l'Université, Paris, for "An economical process or means of obtaining dynamic electricity."—Dated 15th December, 1858.

5665. Duval and Digeon, of 5, Rue Monsigny, Paris, for "An apparatus for irrigating and for clearing pipes applicable to drainage."—Dated 15th December, 1858.

5666. Pierre François Barbé, of 76, Rue Montmartre, Paris, for "A liquid for 'foot baths.'"—Dated 15th December, 1858.

5667. Chevillot and Givelet, of 4, Rue Beaurepaire, Paris, for "A machine for working leather."—Dated 15th December, 1858.

5668. Samuel Lees, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the manufacture of mineral oil."—Dated 15th December, 1858.

5669. Charles Victor Auguste Baux, represented by Mathieu, of 45, Rue St, Sébastien, Paris, for "A machine for washing leather waste for the manufacture of glue."—Dated 15th December, 1858.

5670. William Davis, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in awls and other articles."—Dated 15th December, 1858.—(English Patent, expiring 10th June, 1872.)

5671. Joseph Marie Legris, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 25th January, 1856, for "A combined counter and regulator."—Dated 15th December, 1858.

5672. Joseph Marie Legris, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 18th February, 1854, for "A gas regulator."—Dated 15th December, 1858.

5673. Peugeot Brothers, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A universal wrench."—Dated 15th December, 1858.

5674. Louis Rudolphe Bodmer, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, for "Improvements in hydraulic oil presses."—Dated 15th December, 1858.

5675. Théodore Hermann Diesel, of 38, Rue Notre Dame de Nazareth, Paris, for "A toy."—Dated 16th December, 1858.

5676. Armand Adolphe Lemoine, domiciled 34, Rue St. Paul, Paris, a Certificate of Addition to his Patent of 10th February, 1855, for "A candlestick for public sales."—Dated 16th December, 1858.

5677. Paul Alexandre Poutierre, of 15, Rue des Moines Prolongée, Batignolles, for "A system of rails for railways."—Dated 16th December, 1858.

5678. Julien Telle, of 21, Rue d'Angoulême du Temple, Paris, for "An apparatus for preventing persons from being run over by carriages."—Dated 16th December, 1858.

5679. Nathan Defries, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in gas-counters."—Dated 16th December, 1858.—(English Patent, expiring 2nd July, 1872.)

5680. Binet and Colignon, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Tents with jointed frames."—Dated 16th December, 1858.

5681. Charles Girard Ernest Jacquot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A barometric apparatus for evaporating or drying any substance."—Dated 16th December, 1858.

5682. Antoine Louis Adolphe Favier, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "An atmospheric apparatus for tanning, imbibing, and strengthening leather or tissues."—Dated 16th December, 1858.

5683. Louis Fleurus Gustave Petitpierre-Pellion, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A stereoscopic apparatus."—Dated 16th December, 1858.

5684. Pierre Pourret, of Rue Henry IV., Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 24th December, 1857, for "A system of glass stoppers fixed at a high pressure."—Dated 20th December, 1858.

5685. Schlumberger and Co., of Guebwiller, département du Haut Rhin, for "A machine for sorting, stretching, and cleaning cotton and other filamentous substances."—Dated 21st December, 1858.

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As set forth in their petition, recorded in the said office on the 2nd day of October, 1858.

2201. And RICHARD DOLBY and JOHN GATES, of Liverpool, in the county of Lancaster, Enamellers, have given the like notice in respect of the invention of "An improved process of transfer printing, and ornamenting on glass and other transparent substances."

2205. And FRANCIS TREVITHICK, of Penzance, in the county of Cornwall, has given the like notice in respect of the invention of "Improvements in applying sails and keels to boats and vessels."

As set forth in their respective petitions, both recorded in the said office on the 4th day of October, 1858.

2212. And GEORGE HAMILTON, of St. Martin's-le-Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, have given the like notice in respect of the invention of "Improvements in locks."

As set forth in their petition, recorded in the said office on the 5th day of October, 1858.

2221. And CHRISTOPHER HILL, of the Great Western Railway, Chippenham Station, has given the like notice in respect of the invention of "Improvements in omnibuses, and in apparatus for upholding the windows of omnibuses and other carriages."

2225. And CHARLES BAYLIS, of the Poultry, in the city of London, Solicitor, has given the like notice in respect of the invention of "An improved mode of constructing and arranging under-ground chambers, in populous cities or towns, for the reception of gas and water pipes and telegraph wires."

As set forth in their respective petitions, both recorded in the said office on the 6th day of October, 1858.

2226. And DONALD NICOLL, of the firm of H. J. and D. Nicoll, No. 114, Regent Street, and No. 22, Cornhill, London, has given the like notice in respect of the invention of "Improvements in the manufacture of cloaks and other garments, and for their application to purposes to which they have not hitherto been applied."

2229. And JEAN CLAUDE NOUVEAU, of No. 2, Rue Sainte Appoline, Paris, in the empire of France, and of No. 45, Essex Street, Strand, London, has given the like notice in respect of the invention of "Improvements in stopping or stoppering bottles, and other vessels containing non-gaseous liquids."

2230. And DAVID NAYLOR, of Stockport, in the county of Chester, Carpet Manufacturer, has given the like notice in respect of the invention of "Improvements in looms for weaving carpets and other fabrics, and in the methods of manufacturing the same."

As set forth in their respective petitions, all recorded in the said office on the 7th day of October, 1858.

2234. And JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new cutting and stamping press."—A communication.

2235. And JAMES LEETCH, of Margaret Street, Cavendish Square, in the county of Middlesex, Gun Maker, has given the like notice in respect of the invention of "An improved method of constructing fire-arms."

2236. And Edward Villiers Rippingille, of the parish of Chorlton-upon-Medlock, Greenhays, Manchester, Artist, has given the like notice in respect of the invention of "The improvement of fire arms and artillery."

2237. And Thomas Waller, of Rose Lane, Ratcliff, Engineer, has given the like notice in respect of the invention of "Improvements in stoves and fire places, for the prevention of smoke, and the better ventilation of apartments."

2242. And No. Thomas Roberts and John Dale, of Manchester, in the county of Lancaster, Manufacturing Chemists, have given the like notice in respect of the invention of "An improved process for obtaining salts of soda and other alkalies."

2244. And Alfred Felton, of No. 184, Brick Lane, Spitalfields, in the county of Middlesex, Currier, has given the like notice in respect of the invention of "Improvements in instruments used for inserting and fixing metal eyelets."

2247. And Frederick William Gerhard, of Tichborne Street, Haymarket, in the county of Middlesex, Mineral Surveyor, has given the like notice in respect of the invention of "Improvements in the manufacture of aluminium and sodium."

As set forth in their respective petitions, all recorded in the said office on the 8th day of October, 1858.

2252. And William Crofts, of Lenton Terrace, Park Side, Nottingham, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of fabrics by bobbin net, or twist lace machinery."

As set forth in his petition, recorded in the said office on the 9th day of October, 1858.

2259. And Joseph Beattie, of Lawn Place, South Lambeth, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in locomotive and other steam engines."

As set forth in his petition, recorded in the said office on the 11th day of October, 1858.

2269. And John Field Swinburn, of Birmingham, in the county of Warwick, Gun Manufacturer, has given the like notice in respect of the invention of "Improvements in fire-arms."

As set forth in his petition, recorded in the said office on the 12th day of October, 1858.

2280. And Robert Ridley, of Low Wortley, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in safety cages for mine shafts."

2283. And Anton Benda, of 79, Basinghall Street, in the city of London, Importer of Foreign Goods, has given the like notice in respect of the invention of "Improvements in the manufacture of models of the human and other figures, to be used as toys for tuition, and for other purposes."—A communication.

As set forth in their respective petitions, both recorded in the said office on the 13th day of October, 1858.

2291. And Thomas Ingram, of Bradford, in the county of York, Foreman, has given the like notice in respect of the invention of "Improvements in means or apparatus for signalling between the parts of a train of carriages."

2292. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in tanning hides, and in apparatus employed therein."—A communication from Antoine Louis Adolphe Favier.

2294. And Henry Martin, of Old Kent Road, in the county of Surrey, and of 8, Scott's Yard, in the city of London, has given the like notice in respect of the invention of "Improvements in separating starch from gluten in apparatus used therein, and also in preparing cement from gluten."

As set forth in their respective petitions, all recorded in the said office on the 14th day of October, 1858.

2306. And George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in machinery for cutting the threads of wood screws."—A communication from New York, United States of America.

As set forth in his petition, recorded in the said office on the 15th day of October, 1858.

2323. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E. C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of small chains and links for the same."—A communication from H. Jesson, of Paris.

2326. And Alfred Wilks Drayson, of Plumstead, in the county of Kent, Captain in the Royal Artillery, and Charles Richard Binney, of Woolwich, in the same county, Captain in the Royal Engineers, have given the like notice in respect of the invention of "Improvements in submarine telegraphic cables."

As set forth in their respective petitions, both recorded in the said office on the 18th day of October, 1858.

2338. And John Grant, of Hyde Park Street, in the county of Middlesex, Captain late Royal Artillery, has given the like notice in respect of the invention of "Improvements in constructing and arranging ovens suitable for baking bread."

As set forth in his petition, recorded in the said office on the 19th day of October, 1858.

2364. And Robert Kennedy and James Armstrong, both of Lisburn, in the kingdom of Ireland, has given the like notice in respect of the invention of "An improved kiln for drying grain."

2365. And Charles Clay, of Walton Grange, Wakefield, in the county of York, has given the like notice in respect of the invention of "Improvements in apparatus for harrowing, scarifying, and cultivating land."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of October, 1858.

2387. And Benjamin Goodfellow, of Hyde, in the county of Chester, Engineer, has given the like

notice in respect of the invention of "Certain improvements in steam engines."
As set forth in his petition, recorded in the said office on the 27th day of October, 1858.

2410. And JAMES SMITH, of the city of Bristol, Horse-hair Seating and Curled-hair Manufacturer, has given the like notice in respect of the invention of "Improved hats and coverings for the head."
As set forth in his petition, recorded in the said office on the 28th day of October, 1858.

2487. And WILLIAM ZIERVOGEL, of Hettstädt, near Eisleben, in the kingdom of Prussia, has given the like notice in respect of the invention of "Improvements in apparatus for distilling products from bituminous coal, schist, peat, and other like substances."
As set forth in his petition, recorded in the said office on the 6th day of November, 1858.

2493. And EMILE ALCAN, of No. 4, Coleman Street Buildings, in the city of London, Merchant, has given the like notice in respect of the invention of "An improved method of treating, of preparing materials to be manufactured into paper applicable to lie-washings in general."—A communication.
As set forth in his petition, recorded in the said office on the 8th day of November, 1858.

2648. And ROBERT NELSON, of New York, in the United States of America, temporarily residing at Ramsey, in the Isle of Man, Mariner, has given the like notice in respect of the invention of "Improvements in apparatus for raising and lifting water and other liquids."
As set forth in his petition, recorded in the said office on the 22nd day of November, 1858.

2809. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved apparatus for ascertaining and registering the work of certain kinds of lever balances."—A communication.
As set forth in his petition, recorded in the said office on the 7th day of December 1858.

2908. And SAMUEL HUNTER, of Newcastle-upon-Tyne, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of anchors."
As set forth in his petition, recorded in the said office on the 20th day of December, 1858.

2954. And JOHN RADLEY, of No. 22, Upper Sackville Street, in the city of Dublin, Hotel Keeper, has given the like notice in respect of the invention of "An improved cooking apparatus."
As set forth in his petition, recorded in the said office on the 27th day of December, 1858.

2995. And SAMUEL STEPHEN BATESON, of No. 17, Bolton Street, May Fair, in the county of Middlesex, Barrister-at-Law, has given the like notice in respect of the invention of "Improvements in generating steam."
As set forth in his petition, recorded in the said office on the 30th day of December, 1858.

68. And EDWARD COBBOLD, of Hendon, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in instruments for writing and marking, and for the preparation of certain substances for conversion into instruments for writing and marking, and for the application to useful purposes of certain products arising from preparation aforesaid."
As set forth in his petition, recorded in the said office on the 8th day of January, 1859.

82. And BENJAMIN ROBBIN, of Yarmouth, Nova Scotia, Master Mariner, has given the like notice in respect of the invention of "Improvements in the machinery for working pumps."
As set forth in his petition, recorded in the said office on the 11th day of January, 1859.

221. And WILLIAM TASKER the younger, of the firm of William Tasker and Sons, of Waterloo Iron Works, near Andover, in the county of Hants, Engineers, have given the like notice in respect of the invention of "Improvements in ploughs."
As set forth in his petition, recorded in the said office on the 24th day of January, 1859.

224. And RUDOLPH BODMER, of 2, Thavies' Inn, Holborn, in the city of London, has given the like notice in respect of the invention of "Improved resin and resinous substances."—A communication from Mr. Jean Creuseton, residing at Paris, in the empire of France.
As set forth in his petition, recorded in the said office on the 25th day of January, 1859.

237. And OBED HUSSEY, of Baltimore, United States of America, has given the like notice in respect of the invention of "Improvements in the construction of ships' blocks."
As set forth in his petition, recorded in the said office on the 26th day of January, 1859.

250. And JAMES BUCKINGHAM, of Walworth Common, in the county of Surrey, Civil Engineer, and GEORGE SALT, of Saltaire, near Bradford, in the county of York, Manufacturer, have given the like notice in respect of the invention of "Improvements in the construction and adaptation of drawing, and other rollers employed in drawing and compressing fibres, which improved construction of rollers is also applicable in compressing fabrics."
As set forth in their petition, recorded in the said office on the 27th day of January, 1859.

261. And ROBERT GRIFFITHS, of No. 69, Mornington Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in regulating the pressure of steam in steam boilers, and in preventing the accumulation of deposit therein."—Partly a communication from Charles Nelson Copeland, residing at New York.

263. And ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in obtaining and distributing or applying electricity and magnetism."
As set forth in their respective petitions, both recorded in the said office on the 28th day of January, 1859.

304. And JOHN HIRST, junior, of Dobscross, in Saddleworth, in the county of York, Merchant, and JAMES HOLLINGWORTH, of the same place, Joiner, have given the like notice in respect of the invention of "Improvements in the construction of power looms."

As set forth in their petition, recorded in the said office on the 2nd day of February, 1859.

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325. And JACQUES MARIE EDOUARD MASSON, of Rue des Fossés St. Thomas, Evreux, France, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus to facilitate working under water."

As set forth in his petition, recorded in the said office on the 4th day of February, 1859.

And notice is hereby further given, that all persons, having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

15th February, 1859.

1866. PAUL EMILE CHAPPUIS, Patentee and Manufacturer of Daylight Reflectors and Stereoscopes, 69, Fleet Street, London, E.C., for an invention of "Improvements in stereoscopes and stereoscopic apparatus."—Dated 16th August, 1858.

1868. LOUIS ADOLPHE HERRMANN and ERNEST INNOCENT EMILE HERRMANN, Engineers, of Paris, in the empire of France, for an invention of "Improvements in connecting together pipes, tubes, or ways for the conveyance of water or other fluid, and in means or apparatus for regulating the flow or discharge and supply of such fluid, and in means or apparatus for facilitating the forming of such connections."—Dated 16th August, 1858.

1872. WARDLE EASTLAND EVANS, Musical Instrument Maker, of Norfolk Street, Sheffield, in the county of York, for an invention of "Improvements in harmoniums, concertinas, organs, and other similar keyed instruments."—Dated 17th August, 1858.

1875. JOHN NORTON, of Rosherville, in the county of Kent, late Captain in Her Majesty's 34th Regiment, for an invention of "Improvements in projectiles."—Dated 17th August, 1858.

1876. FRANCIS SHAW, of Siddal's Road, Derby, in the county of Derby, Silk Throwster and Silk Merchant, for an invention of "Improvements in spindles for the spinning of silk and other fibrous material."—Dated 17th August, 1858.

1901. FRANÇOIS FRÉDÉRIC DELPY, of Paris, France, Jeweller, for an invention of "Improvement or improvements in metallic stay busces."—Dated 21st August, 1858.

1993. GEORGE PRICE, of Wolverhampton, in the county of Stafford, Iron Safe Manufacturer, and WILLIAM DAWES, of Wolverhampton aforesaid, Engineer, for an invention of "Improvements in steam engines, steam boilers, and apparatus connected therewith."—Dated 2nd September, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 12th February*, 1859, *inclusive.*)

11th February.

363. JOHN MILLS, of the firm of Mills and Whittaker, of Oldham, in the county of Lancaster, Engineer, for an invention of "Certain improvements in the slide valves of steam engines."—Dated 13th February, 1856.

380. WALTER MCFARLANE, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in building and structural works and fittings in metal."—Dated 14th February, 1856.

385. EDMUND MOREWOOD and GEORGE ROGERS, of Enfield, in the county of Middlesex, for an invention of "Improvements in drying and coating iron and copper."—Dated 14th February, 1856.

403. HYAM JACOB HYAMS, of Stanhope Street, Hampstead Road, in the county of Middlesex, Gas Meter Maker, for an invention of "Improvements in the construction of gas meters."—Dated 16th February, 1856.

405. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the construction of steam-engines for the purpose of converting the reciprocating motion into a rotary motion, and for operating the side valves."—A communication.—Dated 18th February, 1856.

12th February.

390. EDOUARD DEISS, of Paris, in the empire of France, Manufacturer of Chemical Products, for an invention of "A method or methods of and apparatus for extracting oils, fats, greases, and resins from bones, raw wool, seeds, and other substances containing the same, and recovering a certain agent employed in the process."—Dated 14th February, 1856.

Erratum in Journal of 11th February.

2924. For "Renney" read "Kenney."

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1858.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

5686. ALEXANDRE DAUDY, of 8, Rue Gaignolle, Limoges, département de la Haute Vienne, for "A hygienic coral (for children)."—Dated 22nd December, 1858.

5687. FRÉDÉRIC MAIGRON, Quartier St. Louis, Marseille, département des Bouches du Rhône, for "A machine for cutting old ropes."—Dated 20th December, 1858.

5688. MICHEL LOUP, of 34, Rue de l'Hôpital, Givors, département du Rhône, a Certificate of Addition to his Patent of 29th October, 1857, for "A combined hydraulic counter and magnet-motor." — Dated 21st December, 1858.

5689. LÉON CASIMIR TAUFFRET, of Cours St. Louis, Marseille, département des Bouches du Rhône, for "A system of springs and levers for wagons."—Dated 21st December, 1858.

5690. GUSTAVE DEROGNAT, of 21, Port St. Clair, Lyon, département du Rhône, for "Improvements in applying velvet on various tissues." — Dated 21st December, 1858.

5691. LOUIS DUPIR, of St. Leux d'Esserent, département de l'Oise, for "An apparatus for clearing fecula of stones." — Dated 22nd December, 1858.

5692. JACQUES BRUN, domiciled with Gerest, of 2, Rue du Grand Moulin, St. Etienne, département de la Loire, for "A system of unmounting Lefaucheux' gun-barrels."—Dated 22nd December, 1858.

5693. PIERRE JACQUES DORMOY, of 89, Rue St. Vincent de Paul, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 22nd December, 1857, for "A mode of lubricating."—Dated 22nd December, 1858.

* For the French Patent Law see No. 228 of this Journal.

5694. FÉLIX LEROY, of Bapaume, département de la Seine Inférieure, for "A machine for beating and cleaning cotton."—Dated 22nd December, 1858.

5695. VIDAL and OLIVEAU, of 7, Quai de la Douane, Bordeaux, département de la Gironde, a Certificate of Addition to their Patent of 24th December, 1857, for "A cover for cigaret paper." —Dated 22nd December, 1858.

5696. ALPHONSE GELLY, with Fauquet-Lemaitre, Rouen, département de la Seine Inférieure, for "A machine with a hot chamber, for sizing textile substances."—Dated 23rd December, 1858.

5697. JULES RENÉ CHANTOISEAU, of Liseaux, département du Calvados, for "A process for felting cloth whilst fulling the same."—Dated 23rd December, 1858.

5698. JULES JANNESSE, of 5, Rue Tours de Gassies, Bordeaux, dèpartement de la Gironde, a Certificate of Addition to his Patent of 9th October, 1858, for "An apparatus for mixed navigation." — Dated 23rd December, 1858.

5699. HENRY KURTH, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in mountings of umbrellas, parasols, &c."—(American Patent, expiring 20th May, 1872.)—Dated 16th December, 1858.

5700. JOHN GEORGE TAYLOR, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 19th November, 1858, for "Improvements in writing desk articles, &c."—Dated 16th December, 1858.

5701. JEAN BAPTISTE LOISEAU, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 8th November, 1858, for "Trimmings of ladies' mantles and of similar dresses."—Dated 16th December, 1858.

5702. FRANÇOIS SILVESTRE, domiciled 9, Rue de Bondy, Paris, for "A colouring substance."—Dated 16th December, 1858.

5703. FÉLIX AROUX, of 2, Rue de la Feuillade, a Certificate of Addition to his Patent of 14th July, 1857, for "Processes for cultivating gramineous plants."—Dated 17th December, 1858.

5704. ADRIEN RIFFARD, domiciled with Reeves, of 5, Rue de la Tour, Passy, for "A process for retting textile plants."— Dated 17th December, 1858.

5705. ANDRÉ JULIEN JOSEPH ROBERTI, of 7, Chemin de Ronde de la Barrière de Ménilmontant, for "Frames of portmonnaies without rivetting." —Dated 17th December, 1858.

5706. HENRI BOSSHARD, of 87, Rue de Ménilmontant, Paris, for "A machine for glueing wadding." —Dated 17th December, 1858.

5707. PIERRE FRANÇOIS GUILLOT, of 29, Route de Clichy, near the Barrière de Fontainbleau, a Certificate of Addition to his Patent of the 3rd November, 1858, for "A process for controlling telegraphic messages, &c."—Dated 17th December, 1858.

5708. VICTOR LEVASSEUR, of 125, Rue d'Allemagne, à la Villette, for "A system of cupboard with a looking glass."—Dated 17th December, 1858.

5709. Jean Jacques Anatole Bouquet de la Grye, of 38, Rue de Verneuil, Paris, for "A barometer."—Dated 17th December, 1858.

5710. Henri Arrault, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A case of military surgical instruments."—Dated 17th December, 1858.

5711. Henri Arrault, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Manufacturing natural mineral water by means of lozenges."—Dated 17th December, 1858.

5712. Jean Léandre Clément, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 26th May, 1858, for "Pianos with a continuous and mixed action, &c."—Dated 17th December, 1858.

5713. Jean Louis Nestor Fourneaux, of 31, Avenue de St. Cloud, Passy, a Certificate of Addition to his Patent of 19th August, 1857, for "Improvements in expressive organs."—Dated 17th December, 1858.

5714. Claude Mamès Augustin Marion, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Arrangements of boxes for preserving nitrated paper for day and night photographs."—Dated 17th December, 1858.

5715. Constant Christinet, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Manufacture of a liqueur."—Dated 17th December, 1858.

5716. Emile Jacques Bertin, of 40, Rue de la Chausée d'Antin, Paris, for "A kind of gloves."—Dated 18th December, 1858.

5717. Ferdinand Dancart, represented by Fringant, with Masse, of 10, Rue de Provence, Paris, for "A railway-break, &c."—Dated 18th December, 1858.

5718. Stehelin and Co., represented by Stehelin, of 14, Rue de la Banque, Paris, for "A card with circular self-acting clearers."—Dated 18th December, 1858.

5719. Ferdinand Tavernier, of 38, Rue de l'Echiquier, Paris, for "Improvements in the manufacture of fulled stuffs."—Dated 18th December, 1858.

5720. Caulliez and D'Herbès, the former of Belleville, the latter of Passy, for "An apparatus for manufacturing Seltzer water."—Dated 18th December, 1858.

5721. Eugène Desclercs, represented by Therion, of 95, Boulevart Beaumarchais, Paris, for "Working lever presses by means of straps."—Dated 18th December, 1858.

5722. Louis Henri Cordier, domiciled with Laurent, of 73, Rue des Marais St. Martin, Paris, for "An harmonic key-board."—Dated 18th December, 1858.

5723. Hippolyte Charles Vion, of 52, Passage Vivienne, Paris, for "An electrical battery, called 'terrestrial atmospheric battery.'"—Dated 18th December, 1858.

5724. Joseph Marie Legris, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A so-called 'universal gas burner.'"—Dated 18th December, 1858,

5725. Jean Antoine Malzac, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the transmission of movement."—Dated 18th December, 1858.

5726. Nicolas Jean Baptiste Florimond Boucher, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of fire-engines and other pumps."—Dated 18th December, 1858.

5727. Munro and Campbell, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of capsules and other metallic articles."—Dated 18th December, 1858.—(English Patent, expiring 28th October, 1872.)

5728. Moisant and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 10th April, 1858, for "Processes for extracting lamp oil."—Dated 18th December, 1858.

5729. Louis Arnier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 4th April, 1857, for "A system of applying the best known means to the production of steam."—Dated 18th December, 1858.

5730. Joachim Antoine Joseph Liebermann, of 19, Rue du Temple, Paris, a Certificate of Addition to his Patent of 2nd June, 1856, for "Improvements in the manufacture of fecula and starch."—Dated 18th December, 1858.

5731. René Gabriel Clerjaud, of 21, Rue de Grenelle Ste. Honoré, Paris, a Certificate of Addition to his Patent of 27th December, 1856, for "Aromatic wine punch."—Dated 18th December, 1858.

5732. Hortense Barnouillie Morcoux, of 22, Rue de Calais, Paris, a Certificate of Addition to her Patent of 1st June, 1858, "A kind of pens."—Dated 18th December, 1858.

5733. Adolphe Bouez, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A twisting apparatus for spooling wheels."—Dated 18th December, 1858.

5734. Courbe and Bourdin, the former of Montmartre, the latter of St. Denis, for "Casting stereotype plates for printing fabrics."—Dated 18th December, 1858.

5735. Jean Louis Vergniais, of 8, Rue Taitbout, Paris, for "A machine for manufacturing heads of bolts by stamping."—Dated 20th December, 1858.

5736. Sébastien Ley, of 2, Rue de la Fidélité, Paris, for "A gas carburator."—Dated 20th December, 1858.

5737. Midard Auguste Eugène Méresse, of 109, Boulevart Beaumarchais, Paris, for "Reproducing sketches of pictures and ornaments in oil, varnish, glue, &c."—Dated 20th December, 1858.

5738. Edmond Jules Camille Deville, of 54, Rue Madame, Paris, for "An apparatus for extinguishing fires in chimneys, &c."— Dated 20th December, 1858.

5739. Pierre Félix Varenne, of 2 (bis), Rue Vivienne, Paris, for "An apparatus for filtering the smoke of tobacco."—Dated 20th December, 1858.

5740. Denis Adolphe Ray, of 128, Rue Mouffetard, Paris, for "A system of match cases."—Dated 20th December, 1858.

5741. D. and U. Pressoir, of 63, Rue Quincampoix, Paris, for "Manufacture of paper and pasteboard."—Dated 20th December, 1858.

5742. John Robb, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in propellers of ships and vessels."—Dated 20th December, 1858.

5743. Laurent Marie René Péan, of 6, Rue Ste. Barbe, Paris, for "Improvements in inkstands with india-rubber or leather stoppers."—Dated 20th December, 1858.

5744. Pierre Antoine Camproger, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A so-called 'Pompadour nosegay holder."—Dated 20th December, 1858.

5745. Alfred Edmond Cornu, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of differential manometers with a column of mercury and a dial for measuring the pressure of atmospheres up to one thousand."—Dated 20th December, 1858.

5746. Jean Claude Durand, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of chain cables."—Dated 20th December, 1858.—(English Patent, expiring 29th March, 1872.)

5747. Jean Claude Durand, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of iron."—Dated 20th December, 1858.—(English Patent, expiring 30th March, 1872.)

5748. Jean Jules Petit, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Processes and apparatus for carbonizing and torrefying peat, wood and other fuel."—Dated 20th December, 1858.

5749. Ferdinand Chemin, of Rue, département de l'Yonne, for "Coverings of chamber-utensils for preventing the sensation of cold."—Dated 20th December, 1858.

5750. Louis Constant Desaint, of 7, Rue de l'Ecaille, Epernay, département de la Marne, for "Metallic capsules for wine and other liquids."—Dated 23rd December, 1858.

5751. Vincent Bay, of 13, Place des Reigneaux, Lille, département du Nord, for "Brickwork of boilers for breweries."—Dated 27th December, 1858.

5752. Victor Ferdinand Jeduneau, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for sweeping public roads, and removing the mud therefrom."—Dated 10th December, 1858.

5753. André Gaupillat, François Illig, and Ernest Gaupillat, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Cartridges for Devisme revolvers, and all kinds of guns and pistols."—Dated 20th December, 1858.

5754. Pierre Jacques Eugène Jassemme, domiciled with Jassemme, of 46, Rue des Jeuneurs, Paris, for "A compressed-air turbine."—Dated 21st December, 1858.

5755. Jean Marie Delaroche, of 41, Rue de Grenelle St. Germain, Paris, for "A system of rocking doors applicable to furnaces and stoves."—Dated 21st December, 1858.

5756. Arthur Edmund Langlois, of 49, Rue de l'Ancry, Paris, a Certificate of Addition to his Patent of 14th April, 1858, for "Clearing paraffine."—Dated 21st December, 1858.

5757. Amédée Lavallée, of 11, Rue St. Gilles, Paris, for "Treating chromium iron by the wet process."—Dated 21st December, 1858.

5758. John Shaw, represented by Creuseton, of 12, Rue Godot de Mauroy, Paris, for "Manufacture of square and oblong bags, and apparatus employed thereat."—Dated 21st December, 1858.

5759. John Shaw, represented by Creuseton, of 12, Rue Godot de Mauroy, Paris, for "Manufacture of conical bags and apparatus employed thereat."—Dated 21st December, 1858.

5760. John Shaw, represented by Creuseton, of 12, Rue Godot de Maury, Paris, for "A machine whereby an infinite or perpetual feeding motion is obtained."—Dated 21st December, 1858.

5761. Charles Wheatstone, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in electric telegraphs and in apparatus relating thereto.—Dated 21st December, 1858.—(English Patent, expiring, 2nd June, 18 2.)

5762. Jean Pierre Aléxandre Tahan, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A holder of bills, papers, cards, letters, &c. with a transparent front-piece."—Dated 21st December, 1858.

5763. Dida and Krafft, the former of 20, Rue Vivienne, the latter of 9, Rue de Paradis Poissonnière, Paris, for "Means or processes for superseding hat bodies in general."—Dated 21st December, 1858.

5764. François César Eugène Mormenteuil, domiciled with Deverty, of 53, Rue aux Ours, Paris, for "A schist lamp."—Dated 21st December, 1858.

5765. Amable Jean Louis Thiébaut, of 33, Rue Louis Le Grand, Paris, a Certificate of Addition to his Patent of 23rd September, 1858, for "A twyer with a spout for forges."—Dated 21st December, 1858.

5766. Philippe Auguste Lasalle, of 58, Rue St. Georges, Paris, a Certificate of Addition to his Patent of 22nd December, 1857, for "Mechanical processes for the manufacture of carriage-wheels, &c."—Dated 22nd December, 1858.

5767. Pierre Louis Gautrot, of 60, Rue St. Louis, Paris, a Certificate of Addition to his Patent of 4th June, 1856, for "Pistons and cylinders with a conical rotation, applicable to musical instruments."—Dated 22nd December, 1858.

5768. Marie Basle Gaspard Mallet, of 304, Rue St. Denis, Paris, a Certificate of Addition to his Patent of 23rd September, 1858, for "A kind of tournure."—Dated 22nd December, 1858.

5769. Léon Charles Antoine Dalemagne, of 43. Rue de Seine, Paris, a Certificate of Addition to his Patent of 20th September, 1856, for "Processes for converting sandstone into flintstone."—Dated 22nd December, 1858.

5770. Willis Humiston, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of mould candles."—Dated 22nd December, 1858.—(English Patent, expiring 4th April, 1868.)

5771. Théodore Knauth, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in fire-arms."—Dated 22nd December, 1858.

5772. Eléonore Couturier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of lace."—Dated 22nd December, 1858.

5773. John Buchanan, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in propelling ships and vessels and all kinds of boats."—Dated 22nd December, 1858.—(English Patent, expiring 10th November, 1872.)

5774. Collier and Crossley, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in joints of pipes or tubes, especially in such joints as are liable to motion and high pressure."—Dated 22nd December, 1858.

5775. Louis Ernest Descroisettes, of 151, Faubourg St. Denis, Paris, for "Applying silk embroidery on silk collars, tissues, and on sleeves for ladies."—Dated 22nd December, 1858.

5776. Daniel Frodsham, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in tubular steam boilers."—Dated 22nd December, 1858.—(English Patent, expiring 13th November, 1872.)

5777. Egide Verheyen, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for improving corn."—Dated 22nd December, 1858.

5778. Louis François Devisme, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of revolvers."—Dated 22nd December, 1858.

5779. Charles Callebaut, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Tools or apparatus for cambering, finishing, or regulating articles before or after sewing, stitching, &c., and especially those made on the sewing machine."—Dated 22nd December, 1858.

5780. A. Baillet, Caumont, and Co., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in constructing and ornamenting fans."—Dated 22nd December, 1858.

5781. Narcisse Léon Charles Sallé, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A vade-mecum toilet case."—Dated 22nd December, 1858.

5782. Julian Carminati, of 154, Rue Mouffetard, Paris, a Certificate of Addition to his Patent of 3rd June, 1853, for "Improvements in the arrangement of vessels or apparatus for making gaseous beverages."—Dated 23rd December, 1858.

5783. Duplan and Maronnier, of 18, Rue Vivienne, Paris, for "Printing tissues."—Dated 23rd December, 1858.

5784. Douay-Lesens, domiciled with Armengaud, senr., of 45, Rue St. Sébastien, Paris, for "A continuous cutting machine with circular blades."—Dated 23rd December, 1858.

5785. Sébastien Ley, of 2, Rue de la Fidélité, Paris, a Certificate of Addition to his Patent of 8th December, 1858, for "A system of gas burners."—Dated 23rd December, 1858.

5786. Antoine Mattei, of 3, Place Sorbonne, Paris, for "A surgical instrument called 'Leniceps.'"—Dated 23rd December, 1858.

5787. Mainfroy and Dubois, of 14, Rue Cadet Paris, for "Spring petticoats."—Dated 23rd December, 1858.

5788. Mrs. Prost, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to her Patent of 21st December, 1857, for "Preparing and preserving skins, furs, carpets, woollen articles, &c."—Dated 23rd December, 1858.

5789. Joseph Maudslay, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the construction of furnaces for smelting iron, steel, and other metals."—Dated 23rd December, 1858.—(English Patent, expiring 24th June, 1872.)

5790. Frédéric Lidy, represented by Ricordeau of 23, Boulevart de Strasbourg, Paris, for a Certificate of Addition to his Patent of 24th May, 1856, for "Glueing and mounting brushes (for painting)."—Dated 23rd December, 1858.

5791. Augustin Marie Herland, of 138, Rue Ménilmontant, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "Mounting straps on drums and pulleys."—Dated 24th December, 1858.

5792. Charles Horstmann, represented by his Brother, of 45, Rue Rambuteau, Paris, a Certificate of Addition to his Patent of 16th July, 1855, for "A loom for weaving with various shuttles."—Dated 24th December, 1858.

5793. Jean Baptiste Félix Maneut, of 60, Rue Fontaine au Roi, Paris, for "Toilet vinegar."—Dated 24th December, 1858.

5794. Antoine Richelmi, represented by Partou, of 4, Place St. Germains des Près, Paris, for "A kneading-machine with a cylindrical drum and an internal pressure cylinder."—Dated 24th December, 1858.—(Sardinian Patent, expiring 30th September, 1873.)

5795. Joseph Grizard, represented by Barrault, of 23, Boulevart de Strasbourg, Paris, for "A household utensil for preventing boiling liquids from flowing over."—Dated 24th December, 1858.

5796. François Grimault, of 43, Rue des Martyrs, Paris, for "Preparing syrups by concentrating the same in a vacuum."—Dated 24th December, 1858.

5797. Côme Damien Chataing, of 32, Rue de la Villette, Belleville, a Certificate of Addition to his Patent of 14th July, 1858, for "A system of pumps."—Dated 24th December, 1858.

5798. Louis Alexandre Thomas, of 46, Faubourg St. Denis, Paris, for "An apparatus for heating by means of coals."—Dated 24th December, 1858.

5799. Jean Frey, of 58, Rue Beaubourg, Paris, for "A system of closing with or without keys."—Dated 24th December, 1858.

5800. Anacharris Ménier, of 33, Rue Montmartre, Paris, for "A so-called 'kite-balloon.'"—Dated 24th December, 1858.

5801. François Blanchon, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Candlesticks."—Dated 24th December, 1858.

5802. Jean Ribeyre, of Rue du Bois de Cros, Clermont-Ferrand, département du Puy de Dôme, for "A pivot-box applicable to vertical axles or arbors."—Dated 22nd December, 1858.

5803. Pierre Champon, of 54, Cours Champion, Bordeaux, département de la Gironde, for "A fireplace transmitting pure heat, and provided with an invisible boiler."—Dated 23rd December, 1858.

5804. Corsiglia and Tèssieux, of 98, Rue Duguesclin, Lyon, département du Rhône, for "A perpetual motor with a continuous power."—Dated 24th December, 1858.

5805. Antoine Rivière, of 30, Côte des Carmélites, Lyon, département du Rhône, for "A compensating spindle for throwing silk."—Dated 24th December, 1858.

5806. François Grellet, of Longjumeau, département de Seine et Oise, for "An apparatus applicable to gearings for throwing them in and out of gear."—Dated 24th December, 1858.

5807. Pierre Hélaine, of 33, Lyon, département du Rhône, a Certificate of Addition to his Patent of 29th December, 1857, for "Treatment of tinctorial, vegetable, and other substances."—Dated 27th December, 1858.

5808. Dollfus, Mieg, and Co., of Dornach, département du Haut Rhin, for "An application in printing tissues."—Dated 24th December, 1858.

5809. François Revilliod, of Vizille, département de l'Isère, a Certificate of Addition to his Patent of 16th September, 1858, for "A mode of superposing tissues, whereby peculiar effects are produced."—Dated 27th December, 1858.

5810. André Xavier Dubrulle-Chevallier, of Drouai, département du Nord, a Certificate of Addition to his Patent of 3rd May, 1858, for "An improved bucket pump."—Dated 29th December, 1858.

5811. Julien Aléxandre Nicolleau, of 3, Rue du Chapeau Rouge, Nantes, département de la Loire Inférieure, for "A draw plate for bending and dressing metals, being chiefly applicable to cooperage."—Dated 31st December, 1858.

5812. Louis Pasquay, of Wasselone, département du Bas Rhin, for "Using figured napped tissues with wrong sides, made on circular looms, for the manufacture of foot coverings."—Dated 24th December, 1858.

5813. Frachon-Dugas, Crollard, and Co., of Voiron, département de l'Isère, for "A drying apparatus used in the manufacture of paper."—Dated 24th December, 1858.

5814. Marie Lambert Louis Mathieu-Vivario, of Alençon, département de l'Orne, for "A so-called 'obelisk lime-kiln.'"—Dated 27th December, 1858.

5815. Eugène Pasquier, of Reims, département de la Marne, a Certificate of Addition to his Patent of 30th December, 1857, for "Improvements in the construction of machines for drying wool, &c."—Dated 28th December, 1858.

5816. Darrigan and Gorostarson, the former of Dax, the latter of St. Vincent de Tyrosse, département des Landes, for "Manufacture of resinous substances."—Dated 28th December, 1858.

5817. Henri Félix Chalange, of Rue Caroline et d'Orléans, Hâvre, département de la Seine Inférieure, for "A calorifere-stove heated by gas."—Dated 29th December, 1858.

5818. Jules Veyrin, of 29, Rue des Capucins, Lyon, département du Rhône, for "A counting and sorting apparatus."—Dated 29th December, 1858.

5819. Adrien Cabarrus, of Grignols, département de la Gironde, a Certificate of Addition to his Patent of 27th July, 1858, for "A railway break."—Dated 29th December, 1858.

5820. Pierre Guiet, of St. Remy la Varenne, département de Maine et Loire, for "A smut-mill."—Dated 29th December, 1858.

5821. Vassivière, senr. and junr., of 36, Rue St Marcel, Lyon, département du Rhône, for "A vertical flowing furnace for the manufacture of animal charcoal."—Dated 29th December, 1858.

5822. Garnier and Vial, of 2, Rue Touville, Lyon, département du Rhône, a Certificate of Addition to their Patent of 30th November, 1857, for "Manufacture of axles of railway carriages and locomotives by means of rollers."—Dated 29th December, 1858.

5823. Alfred Dupont, of 27 bis, Rue du Curé St. Sauveur, Lille, département du Nord, for "A reel for assembling thread."—Dated 29th December, 1858.

5824. Chouet and Ballefins, Sabelle de Mai, of 20, Chemin St. Lazare, Banlieu de Marseille, département des Bouches du Rhône, for "A day and night telegraph for the navy and merchantmen."—Dated 30th December, 1858.

5825. Chouet and Ballefins, Sabelle de Mai, of 20, Chemin St. Lazare, Banlieu de Marseille, département des Bouches du Rhône, for "A registering log for mathematically ascertaining the speed of vessels and ships."—Dated 30th December, 1858.

5826. Jean Baptiste Royet, of 9, Rue de la Charité, St. Etienne, département de la Loire, for "Breech-loading guns."—Dated 30th December, 1858.

5827. Louis Jacques Château, of Fontaine la Guyon, département d'Eure et Loire, for "Preserving corn, flour, fruits, and eggs by using the pneumatic engine and lime."—Dated 30th December, 1858.

5828. Billiet-Godefroy and Co., of St. Quentin, département de l'Aisne, for "A tissue for making Isabelle bands."—Dated 31st December, 1858.

5829. D'Herbas, Amblard, and Bonnin, of Rue des Ollivettes, Nantes, département de la Loire Inférieure, for "Heating bakers' ovens."—Dated 31st December, 1858.

PRUSSIA.*

List of Patents for Invention Delivered and Cancelled during the month of January, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. Patents Delivered.

1. Timpe, of Cologne, for "A brick machine."—5 years.—Dated 3rd January, 1859.

2. Carl Beermann, of Berlin, for "An apparatus for sewing-machines for obtaining whipped stitches."—5 years.—Dated 13th January, 1859.

3. Rudolph Berger, of Cöthen, for "A safety-apparatus in needle-guns, for preventing them from going off without intent."—5 years.—Dated 14th January, 1859.

4. I. M. Maerz, of Berlin, for "A weight-manometer for ascertaining the expansion of steam in steam-boilers."—5 years.—Dated 17th Jannary, 1859.

5. G. Simony, of Berlin, for "A self-acting variable expansion-gear of steam-engines."—5 years.—Dated 17th January, 1859.

6. Appelius, of Livorno, for an imported invention of "A pantographic telegraph."—5 years.—Dated 20th January, 1859.

2. Patents Cancelled.

1. W. Nohl, of Cologne, for "An expansion-gear of oscillating steam-engines."—Dated 27th May, 1857.—Cancelled 13th January, 1859.

2. C. F. Wappenhans, of Berlin, for "A feeding table for carding machines."—Dated 26th November, 1857.—Cancelled 14th January, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 25th January, 1859, and each bearing that date.

No. 22,691. J. C. Appenzeller, of Cincinnati, O., for an "Improvement in treatment of fatty acids."

"I do not claim subjecting the fatty matters mixed with lime to the direct action of steam, but what I do claim as my invention, and desire to secure by Letters Patent, is, after subjecting the mixture for a time to the direct action of steam, shutting off the steam from it, and raising its temperature by the application of heat to the exterior of the vessel, substantially as herein described."

No. 22,692. Robt. Bailey, of Troy, N. Y., for an "Improvement in valves for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the tubular valve I, seat C, induction pipe D, eduction valve E, levers H, M, and cams J, J^1, N, substantially as and for the purpose herein shown and described."

No. 22,693. Wm. Baker, of Walpole, Ind, for an "Improvement in car seats and couches."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the arrangement and combination of the boards G, F, arms *i*, curved bar *e*, legs K, fenders *l*, slide E, seat B, and rods C, as herein shown and described. 2nd, the arrangement and combination of the curtain H, the seat backs D, drums Z, weights *v*, curtains *u*, and rod I, as herein shown and described, so that when the rod I descends the curtain *u* will fall, and the curtain H rise, and when the rod I is released all the curtains will be simultaneously rolled up."

No. 22,694. Gerard Bancker, of New York, N. Y., for an "Improvement in brick machines."

"Having now described my invention, and its mode of construction, I will proceed to set forth what I claim and desire to secure by Letters Patent of the United States.—What I claim therefore is, first, the combination of the adjustable plunger K with the side rods L, and rods j^1 and j^2 of the rotating mould box for operating the compressors, in the manner described for the purposes specified. I also claim the use of the cleat Q in combination with the rotating moulding box G, and semi-circular stationary cap plate N, substantially as described and for the purposes hereinbefore set forth. I also claim the use of an elevator plunger R, operating as set forth, in combination with the rectangular rotatory mould box G, adjustable compressors H^1 and H^2, and cap plate N, as a device for moulding and compressing clay into bricks, and discharging the same therefrom."

No. 22,695. Joseph Beckel, of New York, N. Y., for an "Apparatus for displaying stereoscopic pictures."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent is,—First, in combination with an endless chain of pictures, constructed and arranged as described, the revolving prism *a*, *a*, *a*, arranged and operating as described. Second, the rest or stop C, arranged and operating as specified. Third, the concave D, *d*, D, arranged and operating in the manner described. Fourth, the pads or cushions 1, 2, 3, 4, &c., arranged and operating as specified."

No. 22,696. W. H. Benson, of Wetumpka, Ala., for an "Improvement in wind wheels."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, constructing a wind wheel of a series of strips or slats *a*, placed centrally on a shaft A, spread and overlapped, and secured together and to the shaft A, substantially as shown and described."

No. 22,697. Edmund Bigelow, of Springfield, Mass., for an "Improved soda water apparatus."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of a set of syrup cans, ice chamber, and draft pipe, substantially as described. I also claim the combination of a measuring faucet, with the herein described and claimed arrangement of devices for drawing syrups and soda water."

No. 22,698. Seth Boyden, of Newark, N. J., for an "Improvement in machinery for forming hat bodies."

"I do not claim the endless apron C, picker B, and rotating perforated cone E, for these have been long known and used in machines for forming hat bodies; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, conveying the fur from the picker B, to the perforated cone E, by means of jets of steam issuing from tubes *d*, arranged relatively with the picker B, and cone E, substantially as described, to effect the desired purpose."

No. 22,699. John Gottlieb Broemser, of St. Louis, Mo., for an "Improved Lounge."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the within described arrangement of the spring catch G, and the serrated arc F, in combination with the pawl *f*, which gears into ratchet teeth *e*, at the lower edge of the hinges D, and which is attached to a rocking cross bar E, and connected to the catch G, substantially as and for the purpose set forth. And I also claim the valve K, in the seat A, which is operated by an arbor L, and by means of a cam *l*, and a hook *m*, in combination with the sliding frame N, constructed substantially as and for the purpose specified."

No. 22,700. Wm. W. Cansler, of Baltimore, Md., for an "Improved boot jack."

"I will now state what I claim and desire to secure by Letters Patent, viz:—I claim the metal folding boot jack described, with pointed prongs and pointed end as a new article of manufacture."

No. 22,701. Jarvis Case, of Bloomington, Ill., for an "Improvement in mole plough."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is,—First, so suspending the 'mole' to the beam or the coulter, as that it cannot go vertically beyond a given depth, whilst it may move laterally, substantially as described. I also claim extending the nose of the mole into the rear of the coulter, so that it cannot at any time run out of the line of cut of said coulter at its point, substantially as described."

No. 22,702. Seth Cheney, of Kiantone, N. Y., for an "Improved field fence."

"What I claim as new, and desire to secure by Letters Patent, is,—I claim the particular construction of panels and its combination with the rails, in the manner and for the purposes set forth."

No. 22,703. Saml. Cheney, of Cleveland, Ohio, for an "Improvement in lamps."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the gas tube G, and openings E, E, in combination with the wick tube C, and cap H, when these several parts are constructed and arranged as described, and operating substantially in the manner and for the purpose set forth."

No. 22,704. Augustus M. Church, of Augusta, Geo., for an "Improved amalgamator."

"I do not claim to have invented any of the separate parts of this machine, as they have been long used for various purposes, and are well known. What I claim, and desire to secure by Letters Patent, is, the arrangement herein described, of the vibrating riffles of the inclined trough, constructed and operated as set forth, by which it is proposed to save the finest particles of the gold, by amalgamation."

No. 22,705. John C. Clime, of Philadelphia, Pa., for an "Improved method of hanging reciprocating saws."

"Having thus described my invention, what I claim, and desire to secure by Letters Patent, is, the employment of a spring, either straight or spiral, to suspend the fulcrum of pitman bars or other reciprocating levers, in the manner substantially set forth in the foregoing specification."

No. 22,706. Francis Cotton, of Brooklyn, N. Y., for an "Improved portable bedstead."

"I do not claim a jointed bedstead, so that when not in use it may be folded; nor do I desire to claim constructing an invalid bedstead, in which the head or feet of the invalid may be raised or lowered, by elevating or depressing either of the end supports; nor am I desirous of claiming the use of side rails hinged at a given point, to enable them to be folded. But I claim the arrangement of the stand, rails, straps and end supports, the whole forming a new and improved article of manufacture, namely, an improved portable bedstead."

No. 22,707. Isaac N. Crehore, of Boston, Mass., and Francis Stiles, jr., of Leicester, Mass., for an "Improvement in paper rag engines."

"We are aware that a solid cast metal bed plate for paper mill engines has been made, having a series of diamond shaped knives upon its surface; but such bed plate is objectionable from its liability to breakage and the difficulty of repairing it when once injured or broken at any point. We do not, therefore, claim such device, or any improvement upon solid cast metal bed plates; but what we do claim, is a bed plate, composed of sheet metal knives, corrugated or formed with a series of angles or curved lines, through their entire length, in the manner described, for the purpose specified."

No. 22,708. D. W. Crocker, of Deposit, N. Y., for an "Improvement in rail road chairs."

"I do not claim the longitudinal division of the chair; nor the use of a key passing through the chair; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination, substantially as herein shown and described, of the inclined grooves *c*, *c*, key C, jaws B, and rail A, so that the weight of the cars will depress the base parts *a*, *a*, of the chair, and thereby cause the jaw parts *b*, to gripe the rail A more firmly."

No. 22,709. Daniel S. Curtiss, of Madison, Wis., for an "Improved field fence."

"What I claim, therefore, as my invention, and desiro to secure by Letters Patent, is, the mode of notching the ends of the rails, and keying together the ends of the panels, in the manuer and for the purpose herein described and set forth."

No. 22,710. Abbot R. Davis, of East Cambridge, Mass., for an "Improvement in corn huskers."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the rolls B and C, spring board D, slotted projection K, and conical projection J, when these several parts are constructed and arranged for operation, in the manner described and for the purpose specified."

No. 22,711. Wm. T. Dennis, of Richmond, Ind., for an "Improvement in sugar cane mills."

"What I claim as my invention, and desire to secure by Letters Patent, is, the plating or covering of the iron roller of sugar cane mills, with tin, or other anti-corrosive metal or substance, for the uses and purposes herein described."

No. 22,712. John Drown, of Huron, N. Y., for an "Improved construction of posts for field fences."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the braces C, C, one fixed and the other hinged or pivoted thereto, in combination with the rails A, A, and chair B, substantially as herein specified."

No. 22,713. Richard Dudgeon, of New York, N.Y., for an "Improvement in hydraulic press."

"What I claim as my invention, and desire to secure by Letters Patent, is, the within described hydraulic press, consisting of the injection piston A, chambers B and C, and ram D, the whole constructed and operating substantially as and for the purposes set forth."

No. 22,714. Daniel E. Eaton, of Boston, Mass., for an "Improvement in shoe horns."

"I am aware of the invention set forth in No. 11,445. of United States Patents, whereby a spring clamp, with a concave holding jaw is claimed, in combination with a shoe slip or shoe horn. I make no use of any such spring clamp, or one which, when the shoe slip or horn is applied to the heel of a shoe, and the shoe is being drawn on the shoe by pull on the instrument, maintains its hold on the shoe by the action of a spring. In my improved instrument the hold of the nipper jaw on the shoe is obtained by the grasp of a person's hand during the act of drawing the shoe on his foot. The greater the resistance of the shoe the stronger will be the grasp of the nipper jaw, the spring serving to open the jaws, or in other words to force the nipper jaw away from the shoe horn. This results from the peculiar application of the jaws to crossed levers. An upwards pull on a spring clamp, such as is represented in the said patent tends to lessen its hold on the shoe, so an upward pull on the spring clamp shoe slip, when the upper parts of the slip and its spring clamp are grasped by the hand of a person, operates to loosen the hold of the clamp on the shoe. In view, therefore, of the invention as described in the said patent, I do not claim a shoe slip or horn, having a holding jaw forced against the slip or horn by a spring; what therefore I claim, is, the improved shoe horn, as made with a heel guid and nipper jaw applied to two corossed levers, and so as to operate together substantially as specified."

No. 22,715. Lewis Eikenberry, of Easton, Pa., for an "Improvement in iron bridges."

"What I claim as my invention, and desire te secure by Letters Patent, is,—1st, having the uprights and diagonals of the side framings of the bridge so united together that they shall be capable of turning on their points of connection, and thus, whenever expansion or contraction in the metal occurs, they may be able to compensate therefor without ceasing to brace the bridge at top and bottom, substantially as and for the purposes set forth. 2d, the combination of lattice side frames of bridges formed of diagonal braces and angle iron uprights, which are united together so as to turn on their points of connection, as above stated, with tubular, semi-tubular, or angle iron arches, substantially as and for the purposes set forth."

No. 22,716. W. H. Elliot, of Plattsburgh, N. Y., for an "Improvements in coffee pots."

"I do not claim condensing the vapor of coffee, so as to prevent the aroma from passing off independent of the peculiar devices and the method of employing them, as herein set forth; but what I do claim, and wish to have secured to me by Letters Patent, is,—First, the combination of boiler *a*, stillworm condenser *b*, conducting or discharge tube *g*, the external opening of the stillworm at *g*, when these devices are so arranged in relation to each other, that an opening to the external air shall be provided for the non-condensible gases, while the condensible vapors are reduced to a liquid without coming in contact with the condenser water, and then turned by conductors into the boiler, as and for the purpose specified. Second, the arrangement of the joint *c* below the spout, so that no vapor can pass through the spout without first passing the joint, as set forth. Third, the employment of conductors in combination with the condenser, for the purpose of filling the water joint or keeping it full, as and for the purpose specified."

No. 22,717. Lewis C. England, of Owego, N. Y., for an "Improvement in tanning."

"I claim, firstly, applying the liquor to the bark while said bark is being discharged from the mill, for the twofold purpose of making it a conveyor of the same and a preserver of the dust thereof, as set forth. I claim, secondly, the method of applying the heated liquor to the bark, for the purposes and in the manner substantially as set forth."

No. 22,718. Jno. B. Ford, Addison Sullivan, and Albert Gregg, of New Albany, Ind., for an "Improvement in threshing machines."

"Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is, the combination of the cutting cylinders A, A, provided with knives, the cylinder C, and concave B, provided with teeth, the screns D, and the fan E, substantially in the manner herein specified, and for the purpose set forth."

No. 22,719. Wm. A. Fosket and Elliot Savage, of Meriden, Conn., for an "Improvement in sewing machines."

"We claim the feeding device, constructed and arranged substantially as herein set forth, and so operating as to cause the cloth to progress by grasping the same with a positive force in contradistinction to the employment of spring pressure between two surfaces moving in unison while feeding. We also claim setting the shank of the revolving and reciprocating looping hook at an angle to the bed plate, substantially as specified, when said looping hook is constructed in the manner herein described or referred to, for the purpose of avoiding motion of the said hook in the direction of the axis of revolution. We also claim operating the slide plate O from above the sewing table by means of a feed foot having two motions, one vibratory in the line of feed, the other reciprocatory and perpendicular to the table or thereabouts."

No. 22,720. Carl Frank, of Cleveland, Ohio, for an "Improvement in smut mills."

"What I claim as my invention, and desire to secure by Letters Patent, is, arranging between the trough c^1, containing the grain to be scoured and the scouring cylinder *k*, a slotted hollow cylinder *d* revolving within another hollow cylinder e^1, as above described."

No. 22,721. John Frezer, of Newberry, Pa., for an "Improvement in horse powers."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the combination of the flange *r* upon the end of the sweep shaft with the groove in the collar R, or its equivalent, for securing the shaft J against longitudinal motion, as set forth, in connection with the wheel H, pinion M, attached to the sweep shaft and the stationary wheel, and pinion L and N, which keep the shaft J in a directly radial position."

No. 22,722. F. J. Gardner, of Washington, N. C., for an "Improved combined chair and lounge."

"I do not claim broadly, irrespective of construction and arrangement, an adjustable chair or a combined rocking chair and lounge, for such devices are in common use, and arranged in various ways; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the seat A, back B, and supplemental back C, connected together by joints, and provided respectively with the legs *d*, d^1, arms E, E, and rockers D, D, the whole being arranged substantially as and for the purpose set forth."

No. 22,723. Conrad Gersten, of Brooklyn, N.Y., for an "Improvement in lanterns."

"What I claim as my invention, and desire to secure by Letters Patent, as an improvement in lanterns, is, the mode of controlling the currents of air which feed the flame, by taking the air from the top of the lantern and causing it to pass down in a narrow annular passage to the apertures leading to the burner, substantially as described, in combination with the deflector which encloses the burner chamber, substantially as described. I also claim, in combination with a lantern, in which the flame is protected against disturbing causes outside, substantially as described, the arrangement substantially as described for controlling the wick from outside the lantern, as described. I also claim combining with the burner and the oil reservoir, and interposed between the two, an air chamber for preventing the oil from being over heated, as described."

No. 22,724. E. A. Goodes, of Philadelphia, Pa., for an "Improved boring machine."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the adjustable worm H, attached to its shaft D, and arranged substantially as and for the purpose set forth. 2nd, the gauge plate E, attached to the bow F^1, in connection with the index *g*, on the mandrel C, for the purpose specified. 3rd, the arrangement of the tube *j* on the shaft *k*, pinion l^1 on said shaft, the pulley *l* on the tube *j*, and also the pinion *i* and the rack *h* on the mandrel C, substantially as and for the purpose set forth."

No. 22,725. John Hindman, of Haynesville, Mo., for an "Improvement in hemp brakes."

"I am aware that reciprocating beaters have long been used for breaking hemp, and I, therefore, do not claim broadly, such device; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the reciprocating beater D, stationary bar E, and reel F, combined and arranged to operate substantially as and for the purpose set forth."

No. 22,726. John C. Hintz, of Cincinnati, O., for an "Improved machine for sawing winding forms."

"Having thus fully described my invention, the following is what I claim as new therein, and desire to secure by

Letters Patent, 1st, in the described combination with one or more shifting supports or rests, I claim the rocking bench J, suspended at or near its midwith, by journals *j*, and provided with suitable feeding and canting mechanism, substantially as set forth. 2nd, in the described connection with a carriage E, and crane D, and with a rocking bench J, having the described or equivalent feeding and canting mechanism, I claim the vibratory and arched rest F, armed with spikes *f*, the whole being arranged and operating, substantially as set forth. 3rd, in the described combination with a rocking rest J, and speroidal feed roller B, I claim the pointer S, *s*, adjustable in hight, and having the described automatic retrograde motion, so as to indicate on the top of the slab, the relative position of the bottom of the kerf, as set forth. 4th, in the described combination with the rocking bench J, I claim the prying lever Q, constructed and operating substantially as set forth."

No. 22,727. E. N. Horner, of New Brighton, Pa., for an "Improvement in method of extracting oil from coal."

"What I claim as my invention, and desire to secure by Letters Patent, is, the use of a mixture of cream of tartar, common salt, and slaked lime, for the purpose of condensing the oleaginous vapor produced by the dry distillation of coal, shale, or other bituminous minerals, extracting the oil from the gas, and depriving the gas of its inflammable quality, and throwing off the sulphurous vapor, in the manner hereinbefore described."

No. 22,728. Benjn. Illingsworth, of Freeport, Ill., for an "Improved washing machine."

"Having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a washing machine having a tilting box B, cylinder D, spring rollers (*f*, *j*,) and otherwise constructed as herein shown and described."

No. 22,729. Richd. Jenkins, of Covington, Ky., for an "Improvement in lamps."

"I am aware that lamp caps have been so constructed that currents of air are kept circulating about and through the base of the flame, therefore I do not claim this arrangement; but what I do claim as my invention, and desire to secure by Letters Patent, is, the combination of the inner and outer cones, when arranged in relation to the wick tube and each other, substantially as specified, and supplied with air or oxygen, for the purpose of maintaining a perfect combustion of the heavier gases or matter rising by capillary attraction, in the space or chamber existing between the cones, and thus producing with coal oil, a brilliant flame, with very little, if any, blue appearance at its base above the outer cone, substantially as set forth."

No. 22,730. John Jones, of Baltimore, Md., for an "Improvement in machines for making clay pipes."

"I do not claim the manufacture of pipe of two sizes, as various devices of moulds have been used for that purpose; but what I claim as my invention, and desire to secure by Letters Patent, is, the two-sized permanent core or mandrel, in combination with the fixed die A, and adjustable jaws C, D, constructed, arranged, and operating in the manner described for the purpose specified."

No. 22,731. Augustus Jouan, of San Francisco, Cal., for an "Improved screw propeller."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining with the rigid blades of a propeller an elastic blade, substantially as described."

No. 22,732. Augustus Jouan, of San Francisco, Cal., for an "Improvement in apparatus for evaporating sugar juice."

"What I claim as of my invention, and desire to secure by Letters Patent, is, the floating cover applied to the evaporation of saccharine liquids, or for concentrating heat for other purposes; constructed, arranged, and operated substantially as herein set forth."

No. 22,733. Wm. W. Karshner. of Cincinnati, O., for an "Improvement in electro-bathing apparatus."

"I do not wish to be understood as broadly claiming the insulating of a patient for the purpose of electro-medical treatment; but what I do claim is, 1st, the suspending non-conducting bands (*f*, *f*, *f*, *f*,) the conducting foot plate (*h*), insulated from the bath tub by the non-conducting substance (*g*), all substantially as set forth; and, 2nd, I claim the combined use of the above-described non-conducting bands (*f*, *f*, *f*, *f*), the conducting foot-piece (*h*), and the non-conducting substance (*g*), or their equivalents, for the purpose of administering an electric bath for therapeutic purposes, as before described."

No. 22,734. Henry Kattenhorn, of New York, N. Y., for an "Improvement in revivification of bone black."

"I claim as of my invention, the method of washing bone black, or animal charcoal, in the purifying of sugar, substantially as herein described."

No. 22,735. Chauncey G. Keeny, of Manchester, Conn., for an "Improvement in knitting machines."

"What I claim, therefore, and desire to secure by Letters Patent, is, the employment of a card attachment to knitting machines, substantially in the manner and for the purpose as described."

No. 22,736. Wm. Kennish, jr., of New York, N.Y., for an "Improvement in marine steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application of an auxiliary pipe to the present discharge pipe of a marine steam engine, in the manner and for the purpose described in the specification."

No. 22,737. Columbia G. Loynes, of Lenox, Mass., for an "Improved machine for cutting and setting saw teeth."

"What I claim as my invention, and desire to secure by Letters Patent, is, the devices for punching and shearing metals, as described, arranged in connection with the saw gummer and saw sett, the whole constructed and operating in the manner set forth."

No. 22,738. Wm. C. McBride, of Raritan, N. J., for an "Improvement in machinery for scutching flax."—Patented in England, 20th May, 1856.

"I do not claim either set of feeders separately, as making part of my present invention, having described a similar arrangement in Letters Patent granted to me by the Government of Great Britain, in the year 1852. What I do claim as my invention, and desire to secure by Letters Patent, is, the mode of operation of the combined rotating blades or beaters, with the interposed stocks, substantially as described. And I also claim, combining two scutching machines, substantially such as herein described, or equivalents thereof, by means of the two feeding wheels with their bands, arranged substantially as herein described, for transferring the fibres which have been scutched at one end, that the other end may be properly presented to the second scutcher, as set forth. And I also claim, in combination with the two sets of feeding bands and wheels, or their equivalents, the sustaining and guiding table, substantially as described, by which the upper unscutched ends of the fibre are held up, guided, and properly presented to the second scutcher, as set forth."

No. 22,739. Antonio Meucci, of Clifton, N. Y., assignor to D. B. Loraini, of said Clifton, for an "Improvement in manufacture of candles."

"I am aware that moulds of plaster of Paris, or other porous materials, partially or wholly saturated with grease, have been used in the manufacture of articles of plaster of Paris, and other ornamental objects; and, therefore, do not claim the invention of such moulds, or their employment in other arts. But what I claim as my invention or discovery, in the candle manufacture, and desire to secure by Letters Patent is, the method of forming mould candles in saturated porous candle moulds, substantially as herein set forth, in contra-distinction to the method in general use, of forming them of candle moulds of impervious metal."

No. 22,740. U. D. Mihills, of Hartford, Wis., for an "Improvement in heating apparatus."

"I claim a heat controlling cylinder, in which the regulating disks, shaped as described, are connected with a detachable frame, the same being arranged and operated as herein-before specified."

No. 22,741. Wm. H. Milhouse, of Sugar Town, Pa., for an "Improved washing machine."

"Having thus fully described my invention, what I do claim as new, and desire to secure by Letters Patent, is,—1st, securing strips of india rubber edgwise in slots in the concave D, and rubber E, by means of the slats which are bolted in between the successive strips, as herein fully set forth. The arrangement of the adjustable frame F, levers *a* and *b*, swinging rubber E, pitman *d*, and shaft *e*, with the concave

when the whole are combined, constructed, and operated in the manner, and for the purpose herein set forth."

No. 22,742. B. F. S. Monroe, of Utica, N. Y., for an "Improved bed bottom."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the two frames A, C, with the springs B secured between them, the frames being connected by the cross bands F, covered or enclosed by any suitable fabric E, and the upper frame supporting the seat or mattress D, the whole being arranged substantially as and for the purpose set forth."

No. 22,743. Walter Peck, of Rockford, Ill., for an "Improvement in pumps."

"I am aware that hollow plungers have been made, and do not wish to be understood as laying any claim thereto the plunger A, as herein-before specified, for the purposes set forth; but what I do claim as my invention, and desire to secure by Letters Patent, is, 2d, the combined arrangement of the stationary standards *c*, vibrating lever *a*, and lifting spring *b*, with, 3rdly, the combined arrangement of the hollow plunger A, having a cylinder C and spout *f*, and attached directly to the handle *a*, with the stationary chamber D, and steadying springs B, as herein specified."

No. 22,744. Frank P. Pfleghar, of Whitneyville, Conn., for an "Improvement in combined punch and awl."

"I do not claim a plurality of cutter tubes *d*, of different sizes, attached to a rotating head *b*, for the purpose of punching holes of different sizes, for such device, or its equivalent, has been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the rotating hollow head *b*, provided with a series of cutter tubes *d* of different sizes, in combination with the awl *h*, attached to or forming a part of the bent bar or rod E, which, as well as the head *b*, is attached to the jaw C, and provided with a spring plate or stop *m*, the whole being arranged substantially as and for the purpose set forth."

No. 22,745. Geo. W. Pittman, of Bushwick, N. Y., for an "Improvement in machinery for twisting fibrous substances."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application of the flyer B, or its equivalent, substantially as described, in combination with the rollers D, D^1, and spool F, or other equivalent means of holding the sliver, and taking up the twist produced by the flyer, whereby the same operation is made to spin the sliver into yarn, and twist the same with one or more other yarns, simultaneously as herein set forth."

No. 22,746. Michael Posz, of Shelbyville, Ind., for an "Improvement in razor strops."

"I claim as a new article of manufacture the self-lubricating razor strop, when constructed in the manner described."

No. 22,747. Hiram H. Reynolds, of Buffalo, N. Y., for an "Improvement in belt trusses."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the T-spring E with the conical spring H, pad B, belt A, and perineal strap *c*, the whole being arranged substantially as shown."

No. 22,748. M. H. Risou, of Paris, Tenn., for an "Improvement in photographic plate vises."

"I do not claim the use of an adjustable jaw and a clamping jaw, the former stopped by a pawl working in a ratchet in the bed piece, and the latter operated by an eccentric attached to the bed piece; but I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a photograph vise, having its eccentric lever E provided with a groove (*g*), a clamping jaw D, provided with a catch (*f*) to engage (*g*) a jaw C, provided with a spring pawl (*d*) which engages a rack (*e*), and otherwise constructed as herein shown and described."

No. 22,749. Daniel Robinson, of Lenox, Pa., for an "Improvement in wagon brake."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination and arrangement of the sliding frame F, curved bars *c* attached to the rock shafts D, D, and passing through the traverse bars *d* of the frame F, and the shoes E attached to the ends of the rock shafts; the several parts being fitted in the truck or bed A, substantially as and for the purpose set forth."

No. 22,750. Philip P. Ruger, of New York, N.Y., for an "Improved machine for splitting wood."

"Having thus fully described my improvements, what I claim, and desire to secure by Letters Patent, is, the spring or yielding guide for relieving the cross bars *e*, in the manner specified and for the purposes set forth. I also claim the guide plate *x*, with the uprights *y*, constructed and arranged, in combination with the wood splitters, as herein-before specified."

No. 22,751. B. A. Russell, of Deep River, Conn., for "Improved ball furniture casters."

"What I claim as new, and desire to secure by Letters Patent, is, a new article of manufacture in my improved furniture caster, when composed of cylinder or casing A, either with or without the radial set screws G, or ribs G^1, in combination with the plate D and ball F, when constructed, arranged, and operated in the manner and for the purposes set forth."

No. 22,752. Christian Sharps, of Philadelphia, Pa., for an "Improvement in breech-loading arms."

"I claim and desire to secure by Letters Patent,—First, forming on the outer end of the sliding bush G, as the sole bearing point against the breech, an annular inclined projection, with a sharp annular edge *b*, coinciding with the smallest portion of the bore of the said bush, as and for the purpose herein set forth. Second, the annular termination e^{11} of the sliding bush fitting into an annular recess *d*, formed in the barrel, and overlapped by the sharp edged annular projection, substantially as herein set forth and for the purpose specified. Third, the convex base *n*, as fitted into a concave socket in the breech, so as to form a self-adjusting base for the end of the barrel."

No. 22,753. Christian Sharps, of Philadelphia, Pa., for an "Improvement in breech-loading repeating fire-arms."

"Having now described the nature of my invention, and the manner in which the same is carried into effect, I wish it to be understood that I do not desire to confine myself to the use of a barrel block with four bores, or to the precise devices herein described for altering the position of the projection *s*, in as much as a barrel block with more or less than four bores may be used in connection with my improvement, and as different devices may be used for changing the position of the said projection; but I claim, and desire to secure by Letters Patent,—First, exploding in succession a number of cartridges of the class herein described, by means of a projection caused to revolve by the movement of the hammer when the said cartridges are so arranged in respect to the said projection, that the latter shall strike the edge only of each cartridge in succession, as herein set forth. Second the catches *t*, *t*, so arranged on the stock in respect to the bores of the barrel block, that on moving the latter from the breech they may be the means of withdrawing the whole of the cartridges simultaneously from their respective bores, as herein set forth."

No. 22,754. Philip Shreiner, of Columbia, Pa., for an "Improvement in stoves."

"What I claim as my invention, and desire to secure by Letters Patent, are the air supplying tubes and air heating cylinders, when combined with a stove, the heat of which is unobstructed by outside casings."

No. 22,755. Stillman Thorp, of Portland, Me., and Wesley Thorp, of Turner, Me., for an "Improvement in boot heels."

"We do not claim an elastic metallic spring or plate applied in the shank of a boot, nor do we claim a rotary heel piece applied separately from the metallic shank piece, as we are aware that neither is new; but what we do claim is, a combination of the metallic plate spring or shank stiffener, and the rotary heel piece, connected together and applied to the heel and shank of a boot or shoe, substantially as specified."

No. 22,756. Wm. B. Twiford, of Chincoteague, Va., for an "Improved washing machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, the opposing incline planes *e*, *e*, on the underside of the ends of the sliding roller frame E, in combination with fixed concave projections or ledges *c*, *c*, on the sides of the tub or box, and with grooves B of greater width than the diameter of the journals of the roller in the sides of the box, substantially as and for the purposes set forth."

No. 22,757. James H. Washington, of Baltimore, Md., for an "Improved method of blowing off steam boilers."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, connecting the pipe C by an elastic or yielding joint to the stationary pipe B, and furnishing its opposite end with a float D that will keep the inlet into said pipe C at or a little below the surface of the water in the boiler, so as to blow off sediment, &c. at the surface, however much it may rise or fall or vary, substantially as described."

No. 22,758. Saml. Wetherill, of Bethlehem, Pa., for an "Improvement in furnaces for distilling zinc."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of vertical retorts with movable caps at top and movable cups at bottom, substantially as described, in combination with the fire chamber of a furnace and suitable chambers for the circulation of heat, substantially as described, when applied to the reduction of ores of zinc to the metallic state, as set forth. I also claim, in combination with retorts for the reduction of the ores of zinc to the metallic state, the mode of mounting the vertical retorts by having them sustained by their lower ends resting in suitable sockets, substantially as described, and unconfined at their upper ends, whereby they are free to yield to unequal expansion, as set forth. I also claim, in combination with retorts for the reduction of the ores of zinc to the metallic state, the employment of two fires with separated ashpits, substantially as described, whereby the fires can be separately cleansed and stocked to admit of applying a continuous heat to the retorts, as set forth. I also claim, in combination with vertical retorts for the reduction of the ores of zinc to the metallic state, the employment of perforated central tubes, substantially as described, for the discharge of the metallic vapors from the charge, and the condensation thereof to the metallic state, as described. And I also claim, the combination of the vertical retorts, the perforated central tubes, and the movable cups and appendages at bottom, and the movable caps at top, substantially as herein described, all concurring in the more ready charging of the retorts, the working of the charge, the escape and condensation of the metallic vapor to the metallic state, and the delivery thereof, and the discharge of the residuum from the retorts, and the recharging of them, as set forth."

No. 22,759. Jesse Wheelock, of Lancaster, N. Y., for an "Improvement in boat for transporting railroad cars."

"1st, I claim the arrangement of the ropes or chains (*y*), pulleys (Z), and timbers (*c*), when applied to each end of a boat for the purpose of holding the boat steady at the bow and stern while the cars are being transferred to or from the boat, the whole constructed and operated substantially as herein set forth. 2d, I claim the arrangement of the bumper dock (A^1) relatively to the dock (A) and slip (F), for the purpose of arresting the headway of the boat and allowing it to be drawn sidewise into the slip (F), so that the track which runs lengthwise of the boat may be brought into line with the suspended track, as described. 3d, I claim the combination of the suspended track with or without the short portion (N) with the track on the boat, for the the purpose of conveniently transferring the cars to or from the boat at whatever hight the boat may stand in the water, substantially as herein described."

No. 22,760. Geo. W. Williamson, of Scranton, Pa., for an "Improvement in heating apparatus."

"Having described the nature and operation of my invention, I wish it distinctly understood that I do not claim dampers, or their equivalent, in my invention; neither do I claim a stationary flat plate or a series of them with an opening around the outer edge for a draft passage; neither do I claim to be the inventor of a combustion chamber; but what I do claim, and desire to secure by Letters Patent, is, the application to fire chambers or smoke flues of a double series of plates, when the same are constructed, combined, and arranged in the manner and for the purpose herein set forth."

No. 22,761. Geo. W. Wilson and Andrew Johnson, of Walnut Grove, Ill., for an "Improved washing machine."

"Having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a washing machine, having upon the central cylinder C a plate (*g*), arms (*h*, *h*), curved slots (*j*), and rod (*i*), for securing the clothes, and in the upper part of the cover B a rubbing device D, consisting of a slat (*m*) with slats or corrugations (*o*) at its sides and rollers (*p*), and otherwise constructed as herein shown and described."

No. 22,762. Geo. Wingate, of Philadelphia, Pa., for an "Improved rotary pump."

"I claim and desire to secure by Letters Patent, the revolving bucket wheel, with any suitable number of pistons operated by the cam K, in combination with the exterior casing B, its chambers and partitions, the whole being arranged for joint action, substantially as and for the purpose herein set forth."

No. 22,763. Herman Winter, of New York, N.Y., for an "Improvement in valve gear of oscillating steam engines."

"I claim as of my invention,—First, the method, substantially as herein specified, of causing a shaft, by means of which the valves of an engine are moved, to revolve through the agency of a cam, a lever, and a crank, and the oscillation of the cylinder to which the shaft is attached, all the parts being substantially such as specified, and acting in combination substantially in the manner specified. Second, I claim the combination of a toe, keyed to some rod, which actuates a valve or valves with an adjustable swinging toe and a revolving cam, the combination being substantially such as herein set forth to serve the purpose described."

No. 22,764. Geo. L. Witsil, of Wilmington, Del., for an "Improved washing machine."

"I do not claim the shape of the tub; nor do I claim the corrugated surfaces; neither do I claim the passing the clothes between the two surfaces, one being a cylinder, and the other the surface of the tub, for I am aware that the ribbed surfaces have been used long since, and that V. R. Stewart has already (June 24, 1856) patented a machine having a ribbed cylinder, revolving in proximity to a concave board, between which the articles in washing pass; but what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the corrugated or fluted conical cylinder, placed vertically with the corrugated or fluted sides of the conical tub, arranged and operated as shown and described for the purpose specified."

No. 22,765. Robt. A. Wright and Louis Jules Fouché, of Paris, France, for an "Improvement in process for decomposing fats."

"Claims.—Having described the nature of our invention, and the manner in which the same is to be performed, we do not claim the application of super-heated water for decomposing fatty bodies, nor the form of the apparatus above described, which may vary somewhat according to conditions and circumstances; but what we claim as our invention, is, producing a continuous automatic circulation of highly heated water in a very finely divided state, through the bodies under treatment, by means of an apparatus constructed and employed substantially as herein shown and described."

No. 22,766. Wm. D. Young, of Baltimore, Md., for an "Improved boot jack."

"Having described my invention, I claim the construction of boot jack substantially as herein set forth, when used in combination with a chair as described."

No. 22,767. Daniel C. Colby, of Keene, N. H., assignor to himself and David W. Ransom, of Croydon, N. H., for an "Improved clothes frame."

"Having above described my improved clothes dryer, and its mode of operation; what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the levers D, E and F, as above described in combination with the pawl K, and the shaft G, operating substantially as herein set forth."

No. 22,768. Silas C. Durgin, of Holyoke, Mass., assignor to himself and Ammon R. Durgin, of Nashua, N. H., for an "Improvement in drawing frames for drawing fibrous materials."

"What I claim is, the arrangement of the conical draft rollers between the gauge trumpet and the other reducing rollers, and supporting such trumpet by mechanism essentially as described (or the equivalent therefor), which will enable the said trumpet to operate both as a gauge to the sliver and to guide it to the rollers, and to be vibrated with respect to the conical rollers in manner and for the purpose as explained. I also claim the combination of mechanism for supporting and vibrating the trumpet, the same consisting of the bent lever E^1, the overbalance carrying lever F,

and the stationary stud; and when such combination of mechanism is employed in manner and for the purpose described, I claim the arrangement of the supporting arm *g* of the weight *h* above the fulcrum of the lever F, in manner as and to operate with reference to the lateral drag of the sliver on the trumpet, as specified."

No. 22,769. JONATHAN HILLER and JOSEPH BULLOCK, of Cohoes, N. Y., assignors to William Smith, of Albany, N. Y., for an "Improvement in knitting machines."

"We do not claim a slide operating by a bent arm at one end to enter breaches in the fabric, and at the other by moving a ring which is attached to and operates it shift a coupling apparatus. We claim the apparatus attached to the stop carriage, viz., the combination of the slides H and G, pawl *g*, gauge *i*, and arm *m*, operating together upon the breaking of the fabric to uncouple the driving power, by and in combination with the ring R, pin J, and spring *d*, which release the detent U, substantially in the manner and for the purposes set forth in the within specification."

No. 22,770. DAVID E. HUGHES, of New York, N. Y., assignor to the American Telegraph Company of said New York, for an "Improvement in telegraphing machines."

"I claim, firstly, giving to the key, while still pressed by the operator, a second motion, at the instant that the circuit is closed or broken, as the case may be, so that an indication of said closing or breaking will be given to the operator, for the purposes set forth. Secondly, the method herein described, or governing the position of the letters upon the type wheel, with respect to that of the platen or roller over which the paper travels, in order to insure an exact position of any particular letter at the moment of printing the same, viz. by so advancing or retarding the said type wheel upon its shaft whenever it has lost or gained in time, in regard to the travel of the circuit breaker at the distant station, that the letter indicated will be certain to stand directly over the said platen at the moment the latter brings the paper into contact with said letter. Thirdly, effecting the printing of each letter, without arresting the motion of the type wheel, by causing the platen to revolve in the same direction and with the same speed as the type wheel, while said platen is bringing up and holding the paper in contact, whereby the paper is advanced along with the type or letter from which it is receiving an impression. Fourthly, the devices by which the type wheel is started from its zero by an operator at a distant station, consisting of the shaft (*g*) set in motion by the electric current, and acting in combination with the clutch lever (*n*) and the wheel E, whereby the type wheel will be advanced up to the time that it becomes engaged with its driving shaft, substantially as set forth."

No. 22,771. HEZEKIAH KNOWLES, of New London, Conn., assignor to Fellows, Hoffman, and Co., of New York, N. Y., for an "Improvement in lamps."

"I do not claim, separately, either of the deflectors above described, nor the introduction of a current of air at the base of the chimney, and between it and the upper deflector; but what I do claim as my invention, and desire to secure by Letters Patent, is, the lower or diaphragm reflector surrounding the wick tube at or near its upper edge, substantially as and for the purpose specified, in combination with the upper deflector and the chimney, having suitable openings for the supply of a draught of air to the inside, and to feed the flame outside of the upper deflector, substantially as and for the purpose specified."

No. 22,772. GEO. W. RICHARDSON and ROBT. GLOVER, of Grayville, Ill., assignors to themselves, I. B. Williams, and Wm. A. Horrall, of White Co., Ill., for an "Improvement in harvesters."

"What we claim as our invention, and desire to secure by Letters Patent, is,—First, the jointed spring arm (a^{11}), arranged and operating in the manner and for the purposes set forth, in combination with the spring catch (i, i^1,) operating so as to catch and hold the arm (a^{11}) when it has gathered the grain, and retain it in their position until the bundle is ready to be deposited free from the platform (*p*). Second, the raker (a, a^1, a^{11}), in combination with the rod (r), crank (c), rod (r^{11}), and retracting weight (w), arranged and operating to produce the reciprocating movements for gathering and delivering the gavel, in the manner described. Third, in combination with the arm (a^{11}), the connecting rod (m), and bent lever (l), operated through the medium of rod (n, n^1), pin (n^{11}), and rest (n^{111}), by the driving wheel (C), substantially in the manner and for the purposes set forth."

RE-ISSUES.

AUGUSTUS ELIAERS, of Boston, Mass., for "Improved reclining chairs."—Patented 11th May, 1858.—Re-issued 25th January, 1859.

"Claims.—First, the general arrangement of devices herein described for actuating and sustaining both the back and foot rest, the same consisting of the arms f^1, f^1, attached to the back in a projection thereof, and having a shaft which travels in grooves formed in the supporting frame work of the chair and the arms, the whole being combined with the foot rest and frame, as set forth herein. Secondly, I claim the combination of device herein described, whereby the back can be placed and held in any desired position, and at same time the proper length of arms retained, the same consisting of the hinged rails *p*, *p*, sliding arms *s*, *s*, locked upon said rails in any desirable manner, and mortises to receive the said rails, as set forth. Thirdly, I claim the foot rest, constructed and arranged substantially as described, when combined with a spring or weight, or its equivalent, to operate as set forth, so that the said foot rest may be raised or lowered at will, to adapt itself to the length of the limb of the occupant, substantially as described. Fourthly, in combination with a reclining chair, constructed as described, I claim the peculiar joint between the back and arms, the same consisting of the arm g^1, attached to the back, and turning upon a pivot in the groove or mortised sliding arm, whereby a very long arm may be obtained, as set forth."

ROSS and THOS. WINANS, of Baltimore, Md., for an "Improvement in hulls of steam vessels."—Patented 26th October, 1858.—Re-issued 25th January, 1859.

"Claim.—What we claim under this Patent as our improvement in steam vessels, is, constructing the hull in the form of a spindle, substantially as above described."

COLONIAL PATENTS.

VICTORIA.

LIST of LETTERS PATENT issued during the Year 1858.

(Continued from page 1288 of Journal for 1858.)

103. FREDERICK SEPTIMUS PEPPERCORNE, of Woolloomoolloo, in the colony of New South Wales, Civil Engineer, for an invention of "A new application of motive power to machinery, called 'The gravitation or automatic engine,' and of the method of applying the force of gravity to the said engine for the purpose of giving motion to machinery."—Dated 8th May, 1858.

104. JOHN IGNATIUS BLEASDALE, of Melbourne, in the county of Bourke, Roman Catholic Clergyman, for an invention for "Silicatizing stone, brick, cement, or other building material, and thereby protecting the same respectively against the destructive action of rain, moisture, water, or air."—Dated 31st May, 1858.

105. WILLIAM STEVENS, of Huntley, near Sandhurst, in the colony of Victoria, for an invention intituled "Improvements in the construction and working of stamps for crushing minerals."—Dated 7th June, 1858.

106. EDWARD HENDERSON, of Melbourne, in the county of Bourke, Engineer, for an invention of "Certain improvements in working cranes and other machinery for lifting."—Dated 27th July, 1858.

107. CHARLES HEAPE, of Melbourne, in the county of Bourke, for an invention intituled "Improvements in washing wool, linen, and other fabrics."—Dated 20th August, 1858.

108. HENRY TAYLOR, of St. Kilda, in the county of Bourke, for an invention intituled "Improvements in propelling vessels."—Dated 25th March, 1858.

109. Robert Bowie, of Yarra Bend, in the county of Bourke, Surgeon, for an invention for the purpose of "Decomposing or rendering innocuous morbific matters tending to excite or produce contagious or infectious diseases or disorders, and for purifying and preserving animal or vegetable substances."—Dated 21st April, 1858.

110. Samuel P. Hogg, of Melbourne, in the county of Bourke, for an invention of "Certain improvements in amalgamating metals."—Dated 15th June, 1858.

111. Joseph Curet, of Melbourne, in the county of Bourke, for an invention of "A new description of spring applicable to beds, chairs, sofas, and other purposes where springs are used."—Dated 12th July, 1858.

112. James Henry Payne, of Ballaarat, in the colony of Victoria, for an invention intituled "Improvements in machinery for puddling and amalgamating earthy matters, and in working winches and other machines."—Dated 9th August, 1858.

113. Minor King, of Melbourne, in the county of Bourke, for an invention intituled "Improvements in machinery for crushing quartz."—Dated 26th August, 1858.

114. Francis Porter Mansfield and Cyrus Hewitt, both of Melbourne, in the county of Bourke, for an invention intituled "Improvements in extracting the stumps of trees, and in pulling down trees."—Dated 6th September, 1858.

115. Bevan George Sloper, of Melbourne, in the county of Bourke, Civil Engineer, for an invention for "Improvements in refrigeration and the making of ice, and for the machinery for effecting the same."—Dated 7th September, 1858.

116. Samuel Theodore Flint, of Melbourne, in the county of Bourke, for an invention intituled "Improvements in preparing materials used for making up cap fronts."—Dated 20th August, 1858.

Registrar General's Office, Melbourne,
14th December, 1858.

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Feb. 7	Monday -	167	532	699—Showery.
„ 8	Tuesday -	119	434	553—Wet.
„ 9	Wednesday	49	51	100— „
„ 10	Thursday -	82	—	82—Fine.
„ 11	Friday -	66	—	66— „
„ 12	Saturday -	140	—	140— „
	Total -	623	1017	1640

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 535. FRIDAY, FEBRUARY 18, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

14. To MONTAGUE WIGZELL, of Friar's Green, Exeter, in the county of Devon, for the invention of "An improved form of nail or driving article."
On his petition, recorded in the Office of the Commissioners on the 1*st day of January*, 1859.

42. To WILLIAM CORFIELD the younger, of Charlton-Adam, in the county of Somerset, for the invention of "Improvements in chains for coupling, cranes, cables, mining purposes, hoisting, and all other purposes where chains are used."
On his petition, recorded in the Office of the Commissioners on the 5th day of January, 1859.

66. To WILLIAM DELANY, of the city of Chicago, Cook county, and city of Illinois, United States of America, for the invention of "Improvements in submarine boats or vessels, and in apparatus used for working under water."—A communication from abroad, by Lodner D. Phillips, of the state of Chicago aforesaid.

70. And to WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in steam engines and steam generators."—A communication from abroad, by Louis Arnier, of Marseilles, in the empire of France.
On their petitions, both recorded in the Office of the Commissioners on the 8*th day of January*, 1859.

169. To WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Certain improvements in boots and shoes, and in the machinery, apparatus, and means employed in such manufacture." — A communication from Charles Jules Pierre Desnos, of 29, Boulevard St. Martin, Paris, in the empire of France.
On his petition, recorded in the Office of the Commissioners, on the 19*th day of January*, 1859.

196. To WILLIAM HENRY MORRISON, of Nottingham, Manufacturer, and HENRY KINSEY, of the same place, Machinist, for the invention of "Improvements in means or apparatus employed in the manufacture of bonnet-fronts, ruches, ribbon trimmings, and other goffered, or pleated articles."
On their petition, recorded in the Office of the Commissioners on the 21*st day of January*, 1859.

273. To DANIEL BENTLEY, of Accrington, in the county of Lancaster, Millwright and Engineer, for the invention of "Improvements in self-acting apparatus, applicable to letter-press printing-machines, for supplying and removing the paper."

275. To THOMAS WILSON, of Birmingham, in the county of Warwick, Engineer, for the invention of "Improvements in breech loading and other fire arms."

277. To HENRY JUSTINIAN NEWCOME, of Shenley, in the county of Herts, for the invention of "An improved apparatus for heating or warming buildings."

279. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved method of extracting gold and silver from their ores."—A communication from Lewis Solomon, residing in the United States of America.
On their several petitions, recorded in the Office of the Commissioners on the 31*st day of January*, 1859.

281. To LAURENT RIGOLIER, Engineer, residing at Lyon Place Grolier No. 5, Rhône, in the empire of France, for the invention of "A new brake for railway carriages."

283. To Samuel Birchall Eveleigh, of Salford, in the county of Lancaster, Hat Manufacturer, for the invention of "An improved form or construction of hats or covering for the head."

285. To Samuel Plimsoll, of 32, Hatton Garden, E.C., London, in the county of Middlesex, Coal Merchant, for the invention of "Mining apparatus for use in mining coal and other minerals, and also for separating the small coal and crushed ores from the shale, dirt and other matters with which it may be in combination, and for drying the same."

287. To Robert Gormully, of No. 13, Grafton Street, Fitzroy Square, parish of St. Pancras, Middlesex, for the invention of "Improvement of pianofortes with upright frames."

289. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for the invention of "Improvements in sewing machines."—A communication from J. P. Pirsson, residing in New York.

291. To Michael Loam, of Treskerby House, Truro, Cornwall, for the invention of "Improvements in machinery for raising sewage and other waters and matters."

293. To Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "The manufacture and useful applications of certain bituminous products and compounds of bitumen with other matters, and treating and applying certain natural bitumen or bitumens for such purposes."—A communication from Moisant and Company, residing at Havannah.

295. And to William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved blowing machine."—A communication from Mr. Antoine Louis Hyacinthe Fiefnet de Sauville, of Paris, in the empire of France, a foreigner residing abroad.

On their several petitions, recorded in the Office of the Commissioners on the 1st day of February, 1859.

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297. To Edward Wilkins, of No. 7, Addington Place, Camberwell, in the county of Surrey, Gentleman, for the invention of "Improvements in drain pipes and tiles for draining and liquid manuring land."

299. To François Félix Rateau, of No. 60, Boulevart de Strasbourg, Paris, Practical Engineer, for the invention of "An improved steam-engine actuated by regenerated steam."

301. To Samuel Tearne, of Birmingham, in the county of Warwick, Japanner, for the invention of "Improvements in ornamenting surfaces."

303. To Isaac Clements, of Birmingham, in the county of Warwick, Warehouse Clerk, for the invention of "A new or improved method of manufacturing curtain rings."

305. And to George Leach, of Leeds, in the county of York, Yarn Spinner and cloth Manufacturer, for the invention of "Improvements in leashing yarn or thread, in the hank, and in machinery for winding off the same."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of February, 1859.

307. To Thomas Storer, of Birmingham, in the county of Warwick, Undertaker and Funeral Carriage Proprietor, for the invention of "A new or improved funeral carriage."

308. To Jeremiah Woodrow, of Oldham, in the county of Lancaster, Hat Manufacturer, for the invention of "Improvements in the manufacture of hats or covering for the head."

309. To William Clayton and Jacob Goodfellow, both of Blackburn, in the county of Lancaster, Engineers, for the invention of "Certain improvements in metallic pistons."

310. To Henry Constantine Jennings, of 8, Great Tower Street, in the city of London, Practical Chemist, for the invention of "Improvements in the manufacture of paper and artificial parchment and of gelatine, applicable to the sizeing of the same, and other purposes."

311. To John Petrie, junior, of Rochdale, in the county of Lancaster, Machinist, and Thomas Wrigley, of Heap Bridge, in the said county, Paper Manufacturer, for the invention of "Improvements in machinery or apparatus for washing rags and other materials for the manufacture of paper."

312. To Samuel Dobson Davison, of Leith, in the county of Mid Lothian, North Britain, Engineer, for the invention of "Improvements in locomotive steam-engines."

313. And to Alexander Gopsell Pooley, of Globe Wharf, Rotherhithe, in the county of Surrey, Agricultural Chemist, for the invention of "Improvements in preparing fish for manure, and in apparatus for the same."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of February, 1859.

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315. To Hugh Greaves, of No. 5, Victoria Street, in the city of Westminster, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the preparation of iron bars, of the various forms or sections used in the construction of sheet-iron structures, and in machinery employed for the same."

316. To Warren Thompson, of No. 2, Rue Sainte Appoline, Paris (France), and of No. 45, Essex Street, Strand, London, for the invention of "An improved printing telegraph."

317. To Alexander Allan, of Perth, in the county of Perth, North Britain, Engineer, for the invention of "Improvements in locomotive steam engines, in part applicable for retarding and stopping railway trains."

319. To Simon Lee Trotman, of Liverpool, in the county of Lancaster, Merchant, for the invention of "Improvements for the more effectually securing or fastening envelopes or other like receptacles, and the more securely affixing postage stamps, or other adhesive labels."

320. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "An improvement in cooling worts and beer."—A communication from Madame Jolibois, residing at Dijon, France.

321. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C.,

Editor of the Mechanics' Magazine and Patent Agent, for the invention of "Improvements in shirts."—A communication from L. Levy Neyman, residing in Paris.

322. To George Henry Baylis, of No. 13, Vauxhall Walk, Lambeth, in the county of Surrey, and Francis Robinson, of No. 88, Salisbury Street, Lisson Grove, in the county of Middlesex, for the invention of "An improved indicator for registering the withdrawal of liquids from vessels."

323. To Frederick Herbert Maberly, of Stow Market, in the county of Suffolk, Master of Arts, for the invention of "Improvements in obtaining spring power, and in its application to various purposes."

324. To Louis Bonneau, of No. 279, Rue Saint Denis, in the city of Paris, Civil Engineer, for the invention of "Improvements in apparatus for registering the time carriages are employed in conveying persons from place to place, and also in moving from place to place when unoccupied."

326. To Patrick Adie, of the Strand, in the county of Middlesex, Mathematical Instrument Maker, for the invention of "Improvements in apparatus for taking levels and measuring angles."

327. To William Robert Justice Packer, of No. 4, Leinster Street, in the parish of St. Marks, and county of the city of Dublin, Dyer and Scourer, for the invention of "Improvements in the plough or plough-share, for the purpose of more effectually pulverizing, breaking up, or cutting into small particles the earth or sod separated from the ground by the plough-share."

329. And to Andrew Barclay, of Kilmarnock, in the county of Ayr, North Britain, Engineer, for the invention of "Improvements in electric-magnetic or electro-magnetic telegraph ropes or conductors, and in machinery or apparatus to be used on board ship for laying or paying out the same."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of February, 1859.

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331. To Frederick Herbert Maberly, of Stow Market, in the county of Suffolk, Master of Arts, for the invention of "Improvements in apparatus for corking, for drawing corks, in taps, in the necks of bottles, in the bung-holes of barrels, and in similar articles."

332. To Nathaniel Greenhalgh, of Bolton, in the county of Lancaster, Cotton Spinner, and William Shaw, of the same place, Cotton Spinner, and James Mallison, junior, of the same place, Yarn Agent, for the invention of "Certain improvements in the treatment and preparation of yarns or threads previously to dyeing."

333. To Robert Tinkler, of Penrith, in the county of Cumberland, Churn Manufacturer, for the invention of "Improvements in churns."

334. To Henry Anderson, of Liverpool, in the county of Lancaster, Mechanic, for the invention of "An improved construction of apparatus for winding window blinds, sun shades, and similar articles on their rollers."

335. To Thomas Sykes, of Cleckheaton, in the county of York, Manufacturing Chemist, and Benjamin Clifford Sykes, of the same place, M. D., for the invention of "Improvements in obtaining or separating oily, fatty, greasy, tarry, waxy, and resinous substances from oleaginous seeds, nuts and fruits, wool, silk, hair, cotton, flax, line, hemp, furs, skins, leather, bones, fish, and other animal matters and refuse, woollen and cotton waste and refuse, also textile fabrics and refuse grease, produced in various branches of industry, indigo, lac, lac dye, and other dyes."

337. And to Major Booth, of Manchester, in the county of Lancaster, Finisher, and James Farmer, of Salford, in the same county, Machinist, for the invention of "Improvements in sizing or stiffening woven fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of February, 1859.

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338. To George Frederic Chantrell, of Liverpool, in the county of Lancaster, Furnace Engineer, for the invention of "Improvements in the treatment of charcoal after its manufacture or revivification."

340. To Abraham Lyons, of the Office for Patents, 77, Chancery Lane, in the county of Middlesex, for the invention of "A pocket protector."

342. To Matthew Curtis, of the city of Manchester, in the county of Lancaster, Machinist, and John Miller, of Staley Bridge, in the said county, Manager, for the invention of "Improvements in certain mules for spinning cotton and other fibrous substances."

344. To Thomas Sims, of Conduit Street, Regent Street, in the county of Middlesex, for the invention of "Improvements in the application of photography to engraving and printing."

346. And to John Smith, of Bradford, in the county of York, Machine Maker, for the invention of "Improvements in machinery or apparatus for preparing and combing wool and other fibrous substances."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of February, 1859.

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348. To Thomas Moss, of 69, Fleet Street, in the city of London, in the employment of Messrs. Perkins, Bacon, and Co., for the invention of "Improvements in the manufacture of paper and printing ink, suitable for bank notes, bills of exchange, and other documents requiring like security against being copied."

352. To Doctor Ernst Bagnicki, of New York, in the county and state of New York, in the United States of America, for the invention of "An improved syringing apparatus, for curing Leucorrhea, and similar sexual diseases."

354. To Robert Ritson Rowntree, of Kingston-upon-Hull, in the county of York, for the invention of "A portable tea testing apparatus."

356. To John Baldry Redman, of New Palace Yard, in the city of Westminster, Civil Engineer, for the invention of "An improvement in the construction of carriage ways."

358. To William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improved protectors for tobacco plants."—A communication from abroad, by Jules Romiguiére, of Paris, Advocate.

360. And to JOHN JUCKES, of Dame Street, Wharf Road, City Road, Islington, for the invention of "Improvements in stoves or fire-places."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of February, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

18th February, 1859.

1880. ACHILLE VICTOR PINTA, of 63, King William Street, in the city of London, Foreign Law Agent, for the invention of "Improvements in blank forms of cheques or drafts on bankers payable on demand, relating to the crossing of such cheques or drafts."—Dated 18th August, 1858.

1887. WILLIAM FREDERICK PADWICK, of Hayling Island, in the county of Hants, Gentleman, for an invention of "A machine or implement to be employed on land sown with turnips, to protect them from the ravages of the fly; applicable also to the protection of other crops."—Dated 19th August, 1858.

1890. WILLIAM SMITH, of No. 18, Salisbury Street, Strand, Civil Engineer, for an invention of "Improvements in steam engines."—A communication from Mr. H. W. Gullett, Engineer, residing in Russia.—Dated 19th August, 1858.

1891. WILLIAM PEARCE, of Bristol, in the city and county of Bristol, Surgical Instrument Manufacturer, for an invention of "Improvements in the manufacture of air-tight bottles, jars, or similar articles."—Dated 20th August, 1858.

1896. PETER SPENCE, of Pendleton, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in the manufacture of alum."—Dated 20th August, 1858.

1897. JAMES LEWIS FIGGETT, of Missionary Place, Walworth, in the county of Surrey, Surgical Turner, for an invention of "An improved construction of syringe or hand pump."—Dated 20th August, 1858.

1905. WILLIAM HENSON, of Saint Just, in the empire of France, Engineer, for an invention of "Improvements in circular looms or knitting frames."—Dated 21st August, 1858.

2035. JEAN ULRICH FAESSLER-PETZI, of Lyons, in the empire of France, Merchant, for an invention of "An improved process for the boiling off of tussah silks or wild silks."—Dated 8th September, 1858.

2109. ARCHIBALD TURNER, of Leicester, Manufacturer, for an invention of "Improvements in looms for weaving."—Dated 18th September, 1858.

2381. GEORGE KENT, of High Holborn, in the county of Middlesex, Machinist, for an invention of "An improved churn."—A communication from a Foreigner residing abroad.—Dated 25th October, 1858.

2883. ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "A new or improved manufacture of cast steel."—Dated 16th December, 1858.

2921. ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement or improvements in the manufacture of cast steel."—Dated 22nd December, 1858.

2935. JAMES BROOM, of Glasgow, in the county of Lanark, North Britain, Iron Manufacturer, for an invention of "Improvements in the manufacture of steel."—Dated 23rd December, 1858.

2941. JOHN WRIGHT CHILD, of Halifax, in the county of York, Engineer, for an invention of "Improvements in the manufacture of fabrics, adapted to be used for curtains, coverings of furniture, table covers, and such like uses."—Dated 24th December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 14th February*, 1859.)

391. EDWARD OLDFIELD, of the firm of Oddy, Thompson, and Oldfield, of the Adelphi Iron Works, Salford, in the county of Lancaster, Machine Makers, for an invention of "Certain improvements in self-acting mules for spinning."—Dated 15th February, 1856.

420. WILLIAM GWILLIM MERRETT, of 49, Leadenhall Street, for an invention of "An improvement in trousers and drawers."—Dated 19th February, 1856.

426. WILLIAM MUIR, of the Britannia Works, in the city of Manchester, Engineer, for an invention of "Improvements in slide lathes."—Dated 20th February, 1856.

438. JOHN BARSHAM, of Kingston-upon-Thames, in the county of Surrey, Manufacturer, for an invention of "Improvements in the manufacture of cases or packings for bottles and jars."—Dated 20th February, 1856.

Errata in Journal of 11th February.

2924. For "Michael Renney" read "Michael Kenney."

244. For "Improvements, &c." read "An improvement, &c."

259. For "Frederick Prince" read "Frederic Prince."

268. After "France" insert "Engineer."

269. For "ships or vessels" read "ships and vessels."

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1858.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

5830. BAUDON-PORCHEZ, and Junr., of Lille, département du Nord, for "An hydrogen calorifere stove."—Dated 31st December, 1858.

5831. PROBST and Co., of Alger, département d'Alger, for "A system of moulds for making paste."—Dated 13th December, 1858.

5832. PROBST and Co., of Alger, département d'Alger, for "A kneading machine."—Dated 13th December, 1858.

5833. AUGUSTE REISS, of Faubourg de Pierre, Strasbourg, département du Bas Rhin, for "A system of screw-jacks."—Dated 28th December, 1858.

5834. PIERRE JOSEPH ALÉXANDRE COINTE, of Bores, département de la Somme, a Certificate of Addition to his Patent of 2nd January, 1858, for "A system of hydraulic wheels on points."—Dated 29th December, 1858.

5835. MACMILLAN-DUNLOP, represented, by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, a Certificate of Addition to his Patent of 29th September, 1858, for "Improvements in rollers or cylinders used in machines for printing fibrous and other substances."—Dated 21st December, 1858.

5836. PIERRE BIELLE, of 4, Rue St. François, Marseille, département des Bouches du Rhône, for for "Coating."—Dated 31st December, 1858.

5837. LOUIS KESSLER, of Metz, département de la Moselle, for "Improvements in apparatus for evaporating and condensing steam."—Dated 31st December, 1858.

5838. JACQUES LOUIS LEMAIRE, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in cigar-cases, portemonaies, and other similar articles."—Dated 24th December, 1858.

5839. LAMBERT HUBERT MAURISSEN, represented by Mathieu, 45, Rue St. Sébstien, Paris, for "Improvements in measuring-instruments."—Dated 24th December, 1858.

5840. PIERRARD and BAILLY, of 66, Rue Chapon, Paris, for "A process for chiselling gilt wood."—Dated 24th December, 1858.

5841. JOSEPH STAAL, of 92, Rue d'Orléans, Batignolles, for "Apparatus for closing vessels or recipients hermetically, and rendering them inodorous."—Dated 24th December, 1858.

5842. ADRIEN HIPPOLYTE DOURLET, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of artificial flowers and leaves."—Dated 24th December, 1858.

5843. FRANÇOIS XAVIER ALEXIS FAUVELLE-DELABARRE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for cutting combs."—Dated 24th December, 1858.

5844. AIMÉ JEAN BAPTISTE CORREAUX, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process for veneering all kinds of articles."—Dated 24th December, 1858.

5845. NICOLAS HECTOR AUBERT, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An instrument for graphical works."—Dated 24th December, 1858.

5846. FRÉDÉRIC DUCIMETIÈRE-MONOD, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 10th September, 1856, for "A direct process of manufacturing chlorine."—Dated 24th December, 1858.

5847. ANDRÉ FRANÇOIS EMILE ROBERT, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of india-rubber sounding dolls, balloons, and other objects."—Dated 24th December, 1858.

5848. ALPHONSE ALEXANDRE GEORGE, of 59, Rue Saintonge, Paris, for "A mode of continuously feeding steam boilers with the same water."—Dated 27th December, 1858.

5849. PATRICK MOIR-CRANE, represented by Rowland, of 224, Rue de Rivoli, Paris, for "Improvements in the manufacture of peat fuel."—Dated 27th December, 1858.—(English Patent, expiring 26th June, 1872.)

5850. ALEXANDRE CÉSAR LAMBERT, of 2, Place Louvois, Paris, for "Spring petticoats."—Dated 27th December, 1858.

5851. JACQUES HENRI ROUZÉ, of 14, Rue Notre Dame de Nazareth, Paris, for "Medallion buttons."—Dated 27th December, 1858.

5852. ALBERT PONCELIN, of 60, Rue de Paris, Clamart, for "An apparatus for making Seltzer water."—Dated 27th December, 1858.

5853. EUGÈNE BERTRAND ROGER, of 45, Rue de Cléry, Paris, for "A movement whereby clocks are made to go without being wound up."—Dated 27th December, 1858.

* For the French Patent Law see No. 228 of this Journal.

5854. Jean Marie André, of 10, Rue Ste. Elisabeth, Paris, for "Metallic lables for trees, shrubs, &c."—Dated 27th December, 1858.

5855. Williams and Ellison, represented by Fringant, with Masse, of 10, Rue de Provence, Paris, for "A system of stoppering."—Dated 27th December, 1858.—(English Patent, expiring 7th December, 1872.)

5856. Jean Baptiste Vergne, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 17th June, 1857, for "A propeller with a grooved screw."—Dated 27th December, 1858.

5857. John Colpill, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in processes for packing."—Dated 27th December, 1858.

5858. Louis Gauessl, domiciled with Boos, of 6, Rue et Hotel de Lyon, Paris, for "A process for scouring wool and cloth."—Dated 27th December, 1858.

5859. Léon Victor Camus, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in lighting apparatus, especially for railway signals, &c."—Dated 27th December, 1858.

5860. Théodore Rosé Léon Alfred Sudré, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 25th October, 1858, for "Manufacture of steel, &c."—Dated 27th December, 1858.

5861. Nicolas Amable Munier, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A twyer and bellows."—Dated 28th December, 1858.

5862. Viellard-Migeon and Co., represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in machines for making wood screws."—Dated 28th December, 1858.

5863. Théophile François Berrens, of 17, Rue Laffitte, Paris, for "An apparatus for preparing timber."—Dated 28th December, 1858.

5864. François Carré, of Avenue de la Porte-Maillot, Passy, for "A kind of gauze wire."—Dated 28th December, 1858.

5865. Eugène Goddier, represented by Pelez, of 10, Rue Mogador, Paris, a Certificate of Addition to his Patent of 25th November, 1858, for "Applying talc or mica to various purposes."—Dated 28th December, 1858.

5866. Louis Migliavacca, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "So-called 'Milanese cakes.'"—Dated 28th December, 1858.

5867. Théophile Julien Laballe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd October, 1858, for "Applying designs and colours to india rubber."—Dated 28th December, 1858.

5868. Noël Nicolas Picot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th May, 1858, for "A metallic band for measuring by the metre."—Dated 28th December, 1858.

5869. Christian E. Detmold, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the system of working and jointing the ends of rails for railways."—Dated 28th December, 1858.

5870. Jean Baptiste Lacroix, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Quill penholders."—Dated 28th December, 1858.

5871. Edward Green, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in tables."—Dated 28th December, 1858.

5872. François Xavier Hurstel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 29th December, 1857, for "A system of dyeing thread on bobbings or spools, tissues, &c."—Dated 28th December, 1858.

5873. Charles Rishworth, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of springs for sustaining loads and moderating concussion."—Dated 28th December, 1858.—(English Patent, expiring 20th January, 1872.)

5874. Alphonse Denis Taurigna, domiciled 11, Rue de la Monnaie, Paris, for "An economical apparatus with free air for hatching silkworms."—Dated 28th December, 1858.

5875. Louis Charlemagne Sambourg, represented by Hassenfeld, of 12, Place de la Bourse, Paris, for "Regulating apparatus worked by electricity by means of electro-motive power."—Dated 28th December, 1858.

5876. P. and E. Audouard, of 7, Cour des Fontaines, Paris, for "Fixing earrings without piercing the ears."—Dated 28th December, 1858.

5877. Alexandre Hrnry Dufresne, of 6, Rue de Sèze, Paris, a Certificate of Addition to his Patent of 14th May, 1856, for "A means of gilding."—Dated 29th December, 1858.

5878. Alphonse Alexandre George, of 59, Rue Saintonge, Paris, a Certificate of Addition to his Patent of 19th November, 1857, for "A smoke-consuming kitchen-range."—Dated 29th December, 1858.

5879. Thomas Spencer, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in the treatment of iron ores and ferruginous sands, and in apparatus belonging thereto."—Dated 29th December, 1858.—(English Patent, expiring 23rd June, 1872.)

5880. François Duval, of 139, Rue du Faubourg Poissonnière, Paris, for "A candle lamp."—Dated 29th December, 1858.

5881. Auguste Lespiaut, of 6, Passage du Jeu-de-Boules, Paris, a Certificate of Addition to his Patent of 14th February, 1857, for "Cases of hunting cartridges."—Dated 29th December, 1858.

5882. Charles Wheatstone, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in electro-magnetic telegraphs, and in electrical apparatus for conveying signals or messages at a distance."—Dated 29th December, 1858.—(English Patent, expiring 2nd June, 1872.)

5883. Jean Gustave Tisserant, of 53, Rue Aumaire, Paris, for "A kind of water-gauge."—Dated 29th December, 1858.

5584. Jacques Léon Tardieu, domiciled with Feuillet, of 26, Rue Neuve St. Augustin, Paris, a Certificate of Addition to his Patent of 28th August, 1857, for "A porcelain kiln."—Dated 29th December, 1858.

5885. Leroy and Dubois, of 45, Boulevart St. Martin, Paris, for "Improvements in sewing machines."—Dated 29th December, 1858.

5886. Richard Gornall, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A machine for making hollow balls."—Dated 29th December, 1858.

5887. Jules Vergne, represented by Desnos, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 17th June, 1857, for "A propeller with a grooved screw."—Dated 29th December, 1858.

5888. Parent, Hamet, and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in silk tissue and other buttons."—Dated 29th December, 1858.

5889. Etienne, sen. and jun., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A fixed or movable horse-gin."—Dated 29th December, 1858.

5890. Causserouge Brothers, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 24th May, 1856, for "Improvements in the composition of liqueurs."—Dated 29th December, 1858.

5891. Alexandre Louis Lévêque, with Dreyfous, of 54, Rue de Bondy, Paris, for "An apparatus for stopping fiery horses."—Dated 29th December, 1858.

5892. Pierre Alexandre Hue, of 78, Rue de la Verrerie, Paris, for "An elliptic or oval compass with shifting points for tracing and cutting ovals, being at the same time the most complete mathematical compass."—Dated 30th December, 1858.

5893. Philibert Gauthier, of 7, Place Louvois, Paris, for "A match case."—Dated 30th December, 1858.

5894. Nicolas Auguste Chasser, of 33, Rue Château, Landon, Paris, for "Argentiferous bronze."—Dated 30th December, 1858.

5895. Antoine René Berteloot, of 357, Rue St. Denis, Paris, for "Hermetic bolts applicable to all kinds of closings."—Dated 30th December, 1858.

5896. Marie Eugène Robert, of 4, Rue des Petits Hôtels, Paris, a Certificate of Addition to his Patent of 3rd April, 1858, for "A means of preserving balls, or so-called 'garden mirrors.'"—Dated 30th December, 1858.

5897. Constant de la Chaussée, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for chasing metals."—Dated 30th December, 1858.

5898. Petin, Gaudet, and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of wheel tyres without welding."—Dated 30th December, 1858.

5899. Petin, Gaudet, and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Manufacture of bells, crucibles, and other articles of cast and hammered steel."—Dated 30th December, 1858.

5900. Germain Sommeiller, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for boring holes in mines."—Dated 30th December, 1858.

5901. Louis Barnabé Duboc, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in looms for twisting and twining filamentous substances."—Dated 30th December, 1858.

5902. Wimshurst and Trueman, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of metal sheets."—Dated 30th December, 1858.—(English Patent, expiring 1st July, 1872.)

5903. Mathieu Carmine, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 4th December, 1858, for "A smoke-consuming calorifere-stove."—Dated 20th December, 1858.

5904. Auguste Terssié, represented by Berlioz, of 4, Rue Duphot, Paris, for "A numbering machine."—Dated 30th December, 1858.

5905. John May, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in paddle wheels and using the same as propellers and rudders."—Dated 30th December, 1858.—(American Patent, expiring 8th September, 1872.)

5906. Simon Ferdinand Viéville, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of lace, blonde, &c."—Dated 30th December, 1858.

5907. Antoine Pierre, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 3rd October, 1857, for "Improvements in ruling machines."—Dated 30th December, 1858.

5908. Jean Baptiste Nicolas Maas, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of military ornaments."—Dated 30th December, 1858.

5909. Pierre Félix Bertrand, domiciled with Page, of 25, Rue Coquillière, Paris, for "A mode of conveying mineral waters."—Dated 30th December, 1858.

5910. Edouard Clarence Shepard, with Bricogne, of 50, Rue du Faubourg Poissonnière, Paris, for "Improvements in the construction of electrical lamps."—Dated 31st December, 1858.

5911. Saffrey, senr. and junr., represented by Bozon, of 14, Rue Lebouteux, Batignolles, for "Unravelling ropes and linen, hemp, and cotton fabrics, and preparing those substances for being spun again."—Dated 31st December, 1858.

5912. John Harcourt Brown, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of cartridges."—Dated 31st December, 1858.—(English Patent, expiring 5th October, 1872.)

5913. Philippe Lefebvre, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A piercing machine with a fixed vice."—Dated 31st December, 1858.

5914. Laville and Poumaroux, of 8, Rue Simon-le-Franc, Paris, a Certificate of Addition to their Patent of 22nd August, 1854, for "A kind of hats."—Dated 31st December, 1858.

5915. Jean Baptiste Lucas, of 4, Passage Joufroy, Batignolles, a Certificate of Addition to his Patent of 14th July, 1856, for "Hydraulic plaster."—Dated 31st December, 1858.

5916. Antoine Michel, of 35, Rue de Trévise, Paris, for "Coating against dampness."—Dated 31st December, 1858.

5917. Chauviteau and Rollin, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A system of separating and moderating gas and apparatus used thereat."—Dated 31st December, 1858.

5918. Jean Baptiste Pascal, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A motor."—Dated 31st December, 1858.

5919. Thomas Dunn, represented by Gough, of 238, Rue de Rivoli, Paris, for "Improvements in the mechanism and apparatus for changing the position of carriages on railways."—Dated 31st December, 1858.—(English Patent, expiring 28th May, 1872.)

5920. Louis Désiré Defienne, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "An apparatus with a current of electro-voltaic and magnetic induction."—Dated 31st December, 1858.

5921. George Lurig, represented by Bos Darnis, of 36, Rue de l'Echiquier, Paris, for "Improvements in melting soap."—Dated 31st December, 1858.

5922. Charles Zipp, of 2, Rue Madame, Paris, for "Improvements in saddles for horses."—Dated 31st December, 1858.

5923. Edward Ferguson, of Thann, département du Haut Rhin, for "Improvements in gas-lighting apparatus."—Dated 31st December, 1858.

5924. Charles Valmégère, of St. Chiniau, département de l'Hérault, for "A system of screw-vice with a reciprocating motion for equally distributing wool on the surface of drums of carding machines."—Dated 28th December, 1858.

5925. Jean Baptiste Giraud, of St. Gilles, département du Gard, for "A process for lighting, regulating, and extinguishing lamps without removing the chimney glass."—Dated 30th December, 1858.

5926. Alphonse Allain, for "Extracting copper from its ores."—Dated 31st December, 1858.

5927. François Vouillon, of Louviers, département de l'Eure, for "Means of manufacturing woollen thread for warps and wefts."—Dated 31st December, 1858.

End of the year 1858.

In course of Publication, by Order of the Commissioners.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 536. **TUESDAY, FEBRUARY 22, 1859.** **Price 2d.**

Notices to Proceed.

NOTICE is hereby given that

2248. ANTOINE EPHREM GALLIARD, No. 2, Seymour Place, St. James's Churchyard, Clerkenwell, Middlesex, has given notice at the Office of the Commissioners, of his intention to proceed with his application for Letters Patent, for the invention of "Making self-supplying portable fountains, to play water or water perfumed."

2251. And LEWIS HOPE, of Bishopsgate Churchyard, in the city of London, Merchant, has given the like notice in respect of the invention of "Improvements in electric telegraph cables."—A communication.

As set forth in their respective petitions, both recorded in the said office on the 9th day of October, 1858.

2257. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "Improvements in constructing reflectors."—A communication from Antoine Marie Balencie, residing in Paris, in the empire of France.

2266. And to THOMAS RIDDELL, of Carracou Terrace, Old Ford, Bow, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improved arrangement for sustaining window sashes and sliding pannels."

As set forth in their respective petitions, both recorded in the said office on the 11th day of October, 1858.

2274. And GEORGE BEADON, of Bathpool, in the county of Somerset, Captain in the Royal Navy, has given the like notice in respect of the invention of "Improvements in the construction of ships, boats, rafts, and vessels for passing through water, or through the atmosphere, or partly through the water and partly through the atmosphere."

As set forth in his petition, recorded in the said office on the 12th day of October, 1858.

2288. And CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of articles of hard vulcanized india rubber and gutta-percha, and similar gums."—A communication from Gustavus Cuppers, residing at College Point, in Long Island, in the state of New York, in the United States of America.

2293. And SAMUEL PERKES, of Clapham, has given the like notice in respect of the invention of "Improvements in machinery for extracting oil from the cocoa nut and other vegetable matters."

2295. And GEORGE BAXTER, of Northampton Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in coloring photographic pictures."

2296. And THOMAS ARCHER, junior, of Dunston, near Gateshead, has given the like notice in respect of the invention of "Improvements in apparatus for preventing explosions of steam boilers."

2297. And SQUIRE DIGGLE, of Radcliffe, in the county of Lancaster, Machine Maker, has given the like notice in respect of the invention of "Improvements in looms for weaving."

As set forth in their respective petitions, all recorded in the said office on the 14th day of October, 1858.

2302. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of gloves, and in the apparatus employed therein."—A communication.

2307. And GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in preparing compounds containing sulphur, for preventing and destroying blight, mildew, and insects."

As set forth in their respective petitions, both recorded in the said office on the 15th day of October, 1858.

2309. And Firmin Joseph Coulon and Simon Godefroid Giraud, of 2, Rue Sainte Appoline, Paris (empire of France), and of 45, Essex Street, Strand, London, have given the like notice in respect of the invention of "Improvements in the process of ornamenting skin and leather."

2316. And Arthur Dunn, of 1, Dalston Terrace East, in the county of Middlesex, Fancy Soap Maker, has given the like notice in respect of the invention of "An improvement in preparing marking compounds to be used on linen and other fabrics."

As set forth in their respective petitions, both recorded in the said office on the 16th day of October, 1858.

2327. And John Smith, of Newport, in the county of Salop, Engineer, has given the like notice in respect of the invention of "Improvements in rough-shoeing beasts of draught and burden."

As set forth in his petition, recorded in the said office on the 18th day of October, 1858.

2359. And Joseph Whitworth, of the city of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in guns, gun-carriages, and ammunition."

2330. And William Fothergill Batho and Eugene Moritz Bauer, of Salford, near Manchester, in the county of Lancaster, Engineers and Tool Makers, have given the like notice in respect of the invention of "Improvements in screws, worms, and wheels, and in machinery or apparatus for cutting the same."

As set forth in their respective petitions, both recorded in the said office on the 19th day of October, 1858.

2345. And John Wainwright, of Birkenhead, in the county of Chester, Dental Surgeon, has given the like notice in respect of the invention of "Improvements in ventilating houses and other places."

2346. And Samuel Thomas Clarke, of 30, Kildare Terrace, Westbourne Park, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus for crossing bankers' cheques and drafts."

As set forth in their respective petitions, both recorded in the said office on the 20th day of October, 1858.

2372. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in pumps."—A communication.

As set forth in his petition, recorded in the said office on the 23rd day of October, 1858.

2376. And Joseph James Welch and John Stewart Margetson, of Cheapside, in the city of London, have given the like notice in respect of the invention of "Improvements in the manufacture of scarfs for gentlemen's wear."

2379. And Thomas Ashworth and Joseph Ashworth, of Pendleton, in the county of Lancaster, Manufacturers, have given the like notice in respect of the invention of "Certain improvements in power looms for weaving."

2383. And Stephen Rossin Parkhurst, of the city and state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in cotton gins."

As set forth in their respective petitions, all recorded in the said office on the 25th day of October, 1858.

2406. And Abel Heywood, of the city of Manchester, Paper Maker and Stainer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for suspending paper and woven fabrics to be dried."—A communication.

2409. And William Munro, of 32, Bartholomew Close, in the city of London, Manufacturing Chemist, has given the like notice in respect of the invention of "A new manufacture of capsules and other metallic articles."

As set forth in their respective petitions, both recorded in the said office on the 28th day of October, 1858.

2436. And William Palmer, of the city and state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in firearms."

As set forth in his petition, recorded in the said office on the 1st day of November, 1858.

2439. And Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved combination for the production of voltaic electricity and its application as a curative agent to certain parts of the human body."—A communication.

As set forth in his petition, recorded in the said office on the 2nd day of November, 1858.

2477. And Louis Schwartzkorf and Ferdinand Carl Philippson, both of Berlin, have given the like notice in respect of the invention of "Improvements in machinery for boring holes in rocks and minerals for blasting and other similar purposes."

As set forth in their petition, recorded in the said office on the 5th day of November, 1858.

2620. And Edmund Alfred Pontifex, of the firm of Pontifex and Wood, of Shoe Lane, in the city of London, Engineers and Coppersmiths, has given the like notice in respect of the invention of "Improvements in external surface condensers."

As set forth in his petition, recorded in the said office on the 19th day of November, 1858.

2740. And Richard Laming, of Haywards Heath, in the county of Sussex, has given the like notice in respect of the invention of "Improvements in purifying gas and in turning sulphuretted hydrogen, carbonic acid, and ammonia, or their compounds, to profitable account."

As set forth in his petition, recorded in the said office on the 1st day of December, 1858.

2774. And James Brookes Fisher and John Fisher, of Stourbridge, in the county of Worcester, Fire Brick Manufacturers, and James Bird the younger, of Kingswinford, in the county of Stafford, Agent, have given the like notice in respect of the invention of "An improvement in the doors and dampers of furnaces

and other places where intense heat has to be resisted."

As set forth in their petition, recorded in the said office on the 4th day of December, 1858.

2788. And JAMES GREENE ARNOLD, of Worcester, Massachusetts, in the United States of America, has given the like notice in respect of the invention of "Improvements in envelopes for letters and similar purposes."

As set forth in his petition, recorded in the said office on the 6th day of December, 1858.

2879. And WILLIAM MORGAN, of Witton Park Iron Works, near Darlington, in the county of Durham, has given the like notice in respect of the invention of "Improvements in the manufacture of iron."

As set forth in his petition, recorded in the said office on the 15th day of December, 1858.

2987. And THOMAS BELL, of Plaistow, in the county of Essex, has given the like notice in respect of the invention of "Improvements in purifying gas."

As set forth in his petition, recorded in the said office on the 30th day of December, 1858.

104. And CHARLES NEALE MAY, of Devizes, in the county of Wiltshire, Engineer, has given the like notice in respect of the invention of "An improved heat indicator."

As set forth in his petition, recorded in the said office on the 13th day of January, 1859.

147. And WILLIAM NEWMAN, of Aston, near Birmingham, in the county of Warwick, Brassfounder, has given the like notice in respect of the invention of "New or improved furniture for window and other blinds."

148. And JOHN FOSTER, of Lancaster, in the county of Lancaster, Corn Merchant, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus called 'spinning frames' and 'roving frames,' employed for spinning and roving flax, tow, hemp, jute, and other fibrous substances."

As set forth in their respective petitions, both recorded in the said office on the 18th day of January, 1859.

218. And JOHN GUY PROGER, of 13, Trinity Street, Cardiff, and DAVID DAVIES, of Stuart Street, Bute Docks, Cardiff, in the county of Glamorgan, have given the like notice in respect of the invention of "Improvements in lanterns used on board ship to signal to the steersman."

As set forth in their petition, recorded in the said office on the 24th day of January, 1859.

230. And HENRY BRECKNELL, of the city of Bristol, Brassfounder, and JOHN DYER, of the same place, Gentleman, have given the like notice in respect of the invention of "Improvements in cocks and valves."

As set forth in their petition, recorded in the said office on the 25th day of January, 1859.

249. And HENRY RAWSON, of Leicester, has given the like notice in respect of the invention of "Improvements in machinery for preparing wool and other fibrous substances."

As set forth in his petition, recorded in the said office on the 27th day of January, 1859.

266. And JAMES MAC KENZIE, Manager to William Strode, of St. Martin's-le-Grand, in the city of London, Gas Engineer, has given the like notice in respect of the invention of "An improved method of operating ventilating valves, especially applicable to ventilating gas burners."

267. And JOSEPH MARINO, of the city of Stockholm, in the kingdom of Sweden, Mechanician, has given the like notice in respect of the invention of "An inodorous closet or commode."

As set forth in their respective petitions, both recorded in the said office on the 29th day of January, 1859.

282. And JOHN HOSKING, of No. 5, Catherine Terrace, Gateshead-on-Tyne, in the county of Durham, and THOMAS COCK, of Cleator Moor, near Whitehaven, in the county of Cumberland, have given the like notice in respect of the invention of "Improvements in furnaces or fire-places."

286. And MARY ANN WALKER, of the firm of Charlotte and Mary Ann Walker, trading under the name of Richard Walker, as Percussion Cap Manufacturers, of Graham Street, Birmingham, in the county of Warwick, and RICHARD WALKER, Manager of the said Works, also of Birmingham as aforesaid, have given the like notice in respect of the invention of "Certain improvements in the manufacture of percussion-caps and in the apparatus for effecting certain parts of the same."

As set forth in their respective petitions, both recorded in the said office on the 1st day of February, 1859.

302. And JOHN BUNCHER, of Birmingham, in the county of Warwick, Brassfounder, has given the like notice in respect of the invention of "Improvements in the manufacture of eyes or fastenings for stair rods."

As set forth in his petition, recorded in the said office on the 2nd day of February, 1859.

326. And PATRICK ADIE, of the Strand, in the county of Middlesex, Mathematical Instrument Maker, has given the like notice in respect of the invention of "Improvements in apparatus for taking levels and measuring angles."

As set forth in his petition, recorded in the said office on the 4th day of February, 1859.

333. And ROBERT TINKLER, of Penrith, in the county of Cumberland, Churn Manufacturer, has given the like notice in respect of the invention of "Improvements in churns."

As set forth in his petition, recorded in the said office on the 5th day of February, 1859.

352. And Doctor ERNST BAGNICKI, of New York, in the county and state of New York, in the United States of America, has given the like notice in respect of the invention of "An improved syringing apparatus for curing leucorrhea and similar sexual diseases."

As set forth in his petition, recorded in the said office on the 8th day of February, 1859.

And notice is hereby further given, that all persons, having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

22nd February, 1859.

1909. Francis Puls, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, Chemist, for an invention of "Improvements in the distillation of coal."—Dated 23rd August, 1858.

1910. Francis Puls, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, Chemist, for an invention of "Improvements in the distillation of bituminous matters and gas tar."—Dated 23rd August, 1858.

1913. Lewis Higgins, of Jersey City, and Alexander Brown, of New York, in the United States of America, Mariners, for an invention of "Improvements in reefing the sails of navigable vessels."—Dated 23rd August, 1858.

1917. John Hunter Robinson, Manager to Grant, Brothers, of Clements Court, in the city of London, Manufacturers, for an invention of "An improved shirt."—Dated 23rd August, 1859.

1923. Henry Wilson, Engineer, in the employment of Powis and James, of Watling Street, in the city of London, Engineers, for an invention of "Improvements in the mounting of band saws."—Dated 24th August, 1858.

1927. Thomas Hill, of Heywood, in the county of Lancaster, Boiler Manufacturer, for an invention of "Improvements in machinery or apparatus for punching and shearing metals." — Dated 25th August, 1858.

1933. James Black, of Edinburgh, Machine Maker, for an invention of "An improved mode or means of obtaining, applying, and transmitting motive power."—Dated 26th August, 1858.

1935. Samuel Newman Rodier, of 21, Oak Village, St. Pancras, in the county of Middlesex, for an invention of "Improvements in apparatus for regulating gas."—Dated 26th August, 1858.

1938. Thomas Trotman, of 253, Albany Road, Camberwell, in the county of Surrey, Pin Maker, for an invention of "Improvements in hair pins."—Dated 27th August, 1858.

1939. Joseph Ellisdon, of Liverpool, in the county of Lancaster, Designer and Cabinet Maker, for an invention of "Improvements applicable to reading chairs and other articles used to sit or recline upon."—Dated 27th August, 1858.

1943. Herbert William Hart, of No. 69, Fleet Street, Gas Engineer, for an invention of "Improvements in the application of gas to chandeliers."—Dated 27th August, 1858.

1995. John Talbot Pitman, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention of "An improvement or improvements in the construction of pneumatic condensing apparatus, for the purpose of compressing air, aeriform, or gaseous bodies preparatory to their use as prime motors, or for other purposes." — A communication from a Foreigner residing abroad.—Dated 2nd September 1858.

2026. Louis Pellissier, Mechanician, and Jean Puytorac, Bailiff, both of Bordeaux, France, for an invention of "Improvements in railway breaks.' —Dated 7th September, 1858.

2052. John Knowles, of Bolton-le-Moors, in the county of Lancaster, Cotton Spinner, for an invention of "Certain improvements in machinery for preparing cotton and other fibrous materials." —Dated 10th September, 1858.

2061. Laurence Hill, of Port Glasgow, in the county of Renfrew, North Britain, Iron Shipbuilder, for an invention of "Improvements in apparatus for lowering or paying out ships' chains and anchors."—Dated 11th September, 1858.

2089. The Honorable William Erskine Cochrane, of Osnaburgh Terrace, Regent's Park, in the county of Middlesex, for an invention of "An improvement in the fastenings of railways."—Dated 14th September, 1858.

2222. James Ridsdale, of Stoke Newington, in the county of Middlesex, Accountant, for an invention of "An improved reservoir or fountain pen." —Dated 6th October, 1858.

2868. David Rowan, of Greenock, in the county of Renfrew, North Britain, Engineer, for an invention of "Improvements in steam engines."—Dated 15th December, 1858.

2897. James Clegg, of Keighley, in the county of York, Engineer, for an invention of "Improvements in lubricating the valves and pistons of steam engines."—Dated 17th December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 19th February*, 1859, *inclusive.*)

17th February.

431. John Freer, of Rothley, in the county of Leicester, Agricultural Implement Maker, for an invention of "Improvements in machines for planting grain and seed, and an improved seed feeder and meter for planting-machines."—Dated 20th February, 1856.

538. Robert Maynard, Engineer, of Whittlesford, in the county of Cambridge, for an invention of "Improvements in machinery for cutting and separating agricultural produce." — Dated 3rd March, 1856.

18th February.

434. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for lubricating bearings; parts of which improvements are applicable to the raising or elevating of liquids."—A communication from Eugène Bourdon, of Paris, in the empire of France, Mechanical Engineer.—Dated 20th February, 1856.

479. Charles Iles, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in pointing hair pins and in making up hair pins for sale."—Dated 25th February, 1856.

19th February.

440. Isaac Moll, Merchant, of Cologne, in the kingdom of Prussia, for an invention of "The treatment of the sulphate of alumine of commerce, and its formation of compounds useful for the disinfecting of organic substances in a state of putrefaction, as well as for other purposes."—Dated 21st February, 1856.

442. Jacques Henri Marie Maissiat, of Paris, in the empire of France, for an invention of "Improvements in projectiles for fire-arms."—Dated 21st February, 1856.

514. Charles Alexandre de Fonbonne, of Paris, for an invention of "Improved apparatus for the manufacture of coke, and for blasting, also for the production and extraction of illuminating and combustible gas, as well as ammoniacal and bituminous matters;—part of such apparatus being applicable to the consumption of smoke."—Dated 28th February, 1856.

FOREIGN PATENTS.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

1. Couturier and Gautier, the former of 11, Rue Albony, the latter of 88, Rue Popincourt, Paris, for "A compressed-air balloon."—Dated 3rd January, 1859.
2. Antoine Joseph Sax, of 50, Rue St. Georges, Paris, for "Arrangements in musical instruments."—Dated 3rd January, 1859.
3. Antoine Joseph Sax, of 50, Rue St. Georges, Paris, for "Arrangements in timbals."—Dated 3rd January, 1859.
4. Clapier and Laude, the former of 10, Passage Saulnier, Paris, the latter of Belleville, for "Stuffing seats with downy silk."—Dated 3rd January, 1859.
5. Heman-Gardiner, represented by Brandon, of 7, Rue des Moulins, Paris, for "Improvements in wheels and axles of railway carriages."—Dated 3rd January, 1859.—(American Patent, expiring 1st June, 1872.)
6. Léandre Bognier, domiciled 11, Rue Roguépine, Paris, for "Manufacture of three kinds of fuel."—Dated 3rd January, 1859.
7. Louis Laurent Ottenheim, of 29, Rue du Grand St. Michael, Paris, for "Mouth-pieces applicable to bits."—Dated 3rd January, 1859.
8. Louis Polydore Grand Collot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An hypo-gastric belt, with a jointed pessary."—Dated 3rd January, 1859.
9. Charles Bochie, of 256, Quai Jemmapes, Paris, for "Improvements in the manufacture of cartridges, called 'anvil cartridges.'"—Dated 3rd January, 1859.
10. Daniel Henry Guillaume, of Route de Courbevoie, Asnières, for "Apparatus and processes for bleaching tissues and thread in skeins."—Dated 3rd January, 1859.
11. Jacques Etienne Daud, of 62, Rue Ménilmontant, Paris, a Certificate of Addition to his Patent of 24th September, 1858, for "Shoes and boots, &c."—Dated 4th January, 1859.
12. Brémoud and Thuilliez, the former of 70, Rue Neuve des Mathurins, the latter of 65, Rue Neuve des Mathurins, Paris, for "Improvements in thread guides of spinning machines."—Dated 4th January, 1859.
13. Louis Bonneau, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in registering apparatus for carriages."—Dated 4th January, 1859.
14. Joseph Dodge Weston, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in rolling iron for making bolts and pins."—Dated 4th January, 1859.—(English Patent, expiring 7th July 1872.)
15. Antoine Nicolas Miton, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A clock flower-stand."—Dated 4th January, 1859.
16. Mathurin Jean Prudent Moriceau, of Mony, département de l'Oise, a Certificate of Addition to his Patent of 3rd March, 1858, for "An apparatus applicable to all kinds of boats."—Dated 3rd January, 1859.
17. Jean Pascal Lucet, of Fontenay-le-Comte, département de la Vendée, for "A motor for tanworks."—Dated 4th January, 1859.
18. Bernard Lethiers, of Jouy, département d'Eure-et-Loire, a Certificate of Addition to his Patent of 23rd August, 1858, for "A system of windmills."—Dated 5th January, 1859.
19. Victor Sainton, of Alençon, département de l'Orne, for "Hair network for all kinds of wigs."—Dated 5th January, 1859.
20. James Hadden Young, represented by Curtis, of Rue du Molinel, Lille, département du Nord, for "Improvements in composing and distributing type."—Dated 5th January, 1859.
21. Jules Bain, of St. Pierre du Regard, département de l'Orne, for "Brushes for cleaning grooved cylinders of drawing frames and other machines."—Dated 3rd January, 1859.
22. Adolphe Gailhard, of 9, Rue d'Issouard, Marseille, département des Bouches du Rhône, for "A continuous mechanical motor."—Dated 3rd January, 1859.
23. Arnaud Gibert, of 63, Rue des Joliblières, Bordeaux, département de la Gironde, for "A railway break."—Dated 3rd January, 1859.
24. Jean Baptiste Charles Cuvelier, of Marly, département du Nord, for "A crushing and grinding mill with a single cylinder."—Dated 5th January, 1859.
25. Curel and Fage, of 23, Rue Pavillon, Marseille, département des Bouches du Rhône, for "Extracting resinous substances from pines, firs, and other resinous essences by the wet process."—Dated 4th January, 1859.

* For the French Patent Law see No. 228 of this Journal.

26. Claude David, domiciled at Cognac, département de la Charente, for "Improvements in the manufacture of casks by machinery or by hand."—Dated 5th January, 1859.

27. Nicolas Louis Henri Valade, of 6, Faubourg d'Ignay, Epernay, département de la Marne, for "A process for waterproofing ropes and string."—Dated 6th January, 1859.

28. Edouard Chaillet, of Blamont, département du Doubs, for "A rotary pump."—Dated 6th January, 1859.

29. Jean Baptiste Dupré, of Château-Gouthier, département de la Mayenne, a Certificate of Addition to his Patent of 16th December, 1856, for "A system of pumps."—Dated 7th January, 1859.

30. Louis Baudelot, of Harancourt, département des Ardennes, a Certificate of Addition to his Patent of 22nd February, 1856, for "A cooling apparatus, &c."—Dated 7th January, 1859.

31. Ferdinand Chemin, of Rue, département de la Somme, a Certificate of Addition to his Patent of 20th December, 1858, for "Coverings of chamber utensils for preventing the sensation of cold."—Dated 4th January, 1859.

32. Ferdinand Chemin, of Rue, département de la Somme, for "Sanitary casings or envelopes of flat pots or basins for invalids, whereby the latter are protected from a cold sensation."—Dated 5th January, 1859.

33. Nefflier and Blandin, of Rue Johannin, Dijon, département de la Côte d'Or, for "A counting apparatus for preventing errors in paying articles bought by retail."—Dated 6th January, 1859.

34. Emile Poiret, of Mans, département de la Sarthe, a Certificate of Addition to his Patent of 9th January, 1858, for "Switches."—Dated 7th January, 1859.

35. Eugène Falguerolle, of 5, Rue Neuve aux Prêtres, Chaumont, département de la Haute Marne, a Certificate of Addition to his Patent of 5th June, 1857, for "An india-rubber ball used as a clack valve for feeding pumps of steam engines."—Dated 8th January, 1859.

36. Berthier and Co., of 8, Quai des Célestins, Lyon, département du Rhône, a Certificate of Addition to his Patent of 20th May, 1856, for "A whistle manometer."—Dated 7th January, 1859.

37. Valetty and Durand, of 56, Quai St. Vincent, Lyon, département du Rhône, a Certificate of Addition to their Patent of 15th February, 1858, "Improvements in Charray's embossing looms and applying the same to cotton tissues."—Dated 8th January, 1859.

38. Pierre Frédéric Schlotterbeck, of Rue Chaussée, Verdun, département de la Meuse, for "A portable urinal."—Dated 8th January, 1859.

39. Eugène Louis Robert, of Imphy, département de la Nièvre, a Certificate of Addition to his Patent of 9th January, 1858, for "An hydro-moveable winnowing apparatus."—Dated 8th January, 1859.

40. Charron Hautavoine, of Biermes, département des Ardennes, a Certificate of Addition to his Patent of 1st April, 1858, for "A plough."—Dated 8th January, 1859.

41. Pierre François Dacheux, represented by Caille, of Laon, départment de l'Aisne, a Certificate of Addition to his Patent of 15th April, 1858, for "A dressing machine, &c."—Dated 8th January, 1859.

42. Léon Foucault, of Charleville, département des Ardennes, for "An apparatus with a continuous circular action for crushing, compressing, punching."—Dated 8th January, 1859.

43. Jean Clavet, of 55, Rue des Faures, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 21st September, 1858, for "A break, &c."—Dated 10th January, 1859.

44. Jean Baptiste Marre, of 8, Rue Rubens, Nantes, département de la Loire Inférieure, a Certificate of Addition to his Patent of 1st March, 1858, for "A pan, &c."—Dated 8th January, 1859.

45. Louis Marc Marie Portalier, of St. Malo, département d'Ille et Vilaine, a Certificate of Addition to his Patent of 22nd April, 1857, for "Double or single breech-loading guns."—Dated 10th January, 1859.

46. Louis Marc Marie Portalier, of St. Malo, département d'Ille et Vilaine, a Certificate of Addition to his Patent of 28th December, 1857, for "Priming cartridges for guns."—Dated 10th January, 1859.

47. Jean François Ferre, of Macon, département de Saône et Loire, for "An apparatus with a moveable regulator for sawing and breaking sugar."—Dated 11th January, 1859.

48. François Parisse, of Dénain, département du Nord, for "Pulleys with fluted grooves and chains with jointed cogs, applicable to all rotary movements."—Dated 11th January, 1859.

49. Adolphe Canu, of 8, Faubourg Ville Bourbon, Montauban, département de Tarn et Garonne, for "An apparatus for distributing lubricating substances."—Dated 7th January, 1859.

50. Michel Beck, of Pfaffenheim, département du Haut Rhin, for "Manufacture of crucibles which can bear the greatest heat and changes of temperature, &c."—Dated 8th January, 1859.

51. Jean Baptiste Adolphe Bastenaire, of St. Quentin, département de l'Aisne, for "A system of heating applicable to all manufactories."—Dated 10th January, 1859.

52. Coste, Chantin, and Lagier, of 39, Rue au Bon-Pasteur, Lyon, département du Rhône, for "An anti-robbery apparatus."—Dated 10th January, 1859.

53. Aléxandre Euvrard, of Besançon, département du Doubs, for "A mechanism with a steady motive power."—Dated 11th January, 1859.

54. Pierre Duchamp, of 17, Rue du Commerce, Lyon, département du Rhône, a Certificate of Addition to his Patent of 13th October, 1858, for "A system of continuous matches, &c."—Dated 11th January, 1859.

55. André Alexandre Cochois, of Seignelay, département de l'Yonne, for "Improvements in preparing colours."—Dated 11th January, 1859.

56. Auguste Sebbe, of Remigny, département de l'Aisne, for "A process for disinfecting and clarifying water impregnated with fat and infectious substances of all kinds of manufactories, and especially of sugar-works, stills, tan-works, dye-works, &c."—Dated 12th January, 1859.

57. Roquin-Evrard, of Coucy-le-Château, département de l'Aisne, for "A cylinder mill for crushing various substances."—Dated 12th January, 1859.

58. Jules Hippolyte Clément, of 17, Rue Tronchet, Paris, for "A break for stopping the rotary movement of wheels and all cylindrical bodies."—Dated 4th January, 1859.

59. Kob and Gustave Pick, of 112, Rue de Charenton, Paris, for "Paper-hangings."— Dated 4th January, 1859.

60. Pierre Godfrey, of 12, Rue Truffaut, Batignolles, for "Improvements in the manufacture of funeral garlands."—Dated 4th January, 1859.

61. Charles Benjamin Normand, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in life apparatus for the sea and other purposes."—Dated 4th January, 1859.

62. Ira Jagger, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A machine for making bread, and for giving the required form to dough and pastes."—Dated 4th January, 1859.

63. Worms and Co., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 21st June, 1858, for "Improvements in the manufacture of buttons."—Dated 4th January, 1859.

64. Robert George Cecil Fane, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the treatment of sewage matter, and in apparatus used therein."—Dated 4th January, 1859.

65. Jules Mauguin, of 59, Rue de la Chaussée d'Antin, Paris, for "Improvements in collars and saddles of horses."—Dated 4th January, 1859.

66. Louis Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Purifying natural phosphate of lime."—Dated 4th January, 1859.

67. Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 8th September, 1858, for "Purifying natural phosphate of lime."—Dated 8th January, 1859.

68. David Macaire, of 6, Rue Basse, Passy, a Certificate of Addition to his Patent of 7th March, 1851, for "A safety tap applicable to casks and vessels."—Dated 4th January, 1859.

69. Pierre Cyprien Metra, of 29, Rue du Dragon, Paris, for "Colouring feathers for flowers."—Dated 5th January, 1859.

70. Bernard Lauth, represented by Fleischmann, of 27, Boulevart des Italiens, Paris, for "Improvements in the manufacture of iron and steel."—Dated 5th January, 1859.

71. James Harebooth Gresham, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in copying presses."—Dated 5th January, 1859.

72. Joseph Chrétien Ferdinand Prengrueber, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of locomotion applicable to inland navigation."—Dated 5th January, 1859.

73. Candelot, alias De Fulgence, of 24, Rue St. Honoré, Paris, a Certificate of Addition to his Patent of 3rd May, 1858, for "A chemical compound, applicable as a waterproof coating."—Dated 5th January, 1859.

74. Victor Auguste Duval, of 37, Passage Vivienne, Paris, for "A system of destroying smoke, vapours, gas, &c."—Dated 5th January, 1859.

75. Ambroise Pierre Remond, of 50, Rue St. Maur, Paris, for "Improvements in lace frames for making fringes."—Dated 6th January, 1859.

76. Gerly and Brizard, of 5, Rue Pastourel, Paris, for "Improvements in wet stamp presses."—Dated 6th January, 1859.

77. Pouchard, jun., and Dauteur, jun., of 42, Rue de Tracy, Paris, for "Combs."—Dated 6th January, 1859.

78. John Wilson, represented by Sautter, of 2, Boulevart Montmartre, Paris, for "Improvements in floating docks."—Dated 6th January, 1859.—(English Patent, expiring 23rd September, 1872.)

79. Isaac Livermore, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of shuttles."—Dated 6th January, 1859.—(English Patent, expiring 13th November, 1872.)

80. Jean Henri Chapée, of 90, Rue des Gravillers, Paris, for "Improvements in backs of ledgers."—Dated 6th January, 1859.

81. Eugène Charles Devers, of 12, Rue des Martyrs, Paris, for "A process for evaporating and purifying water."—Dated 6th January, 1859.

82. Edme Louis Bonnet, of 17, Rue des Amandiers, Paris, for "A sugar-mould."—Dated 6th January, 1859.

83. François Prosper Rolland, of 166, Faubourg St. Martin, Paris, for "Arranging and keeping chocolate-powder in hermetically closed boxes."—Dated 6th January, 1859.

84. Polynice Auguste Viette, represented by Mennons, of 39, Rue de l'Echiquier, Paris, for "Inks for engraving and lithography."—Dated 6th January, 1859.

85. Pasquale Perelli Ercolini, represented by Mennons, of 39, Rue de l'Echiquier, Paris, for "An apparatus called 'horometer.'"—Dated 6th January, 1859.

86. Victor Debras, represented by Mennons, of 39, Rue de l'Echiquier, Paris, for "A harmonium for children, called 'marmotine.'"—Dated 6th January, 1859.

87. Charles Rydman, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Instruments for taking the measure for foot coverings."—Dated 6th January, 1859.

88. François Barthélemy, of 36, Rue Grenier St. Lazare, Paris, for "Manufacture of bonbons by mechanical means."—Dated 7th January, 1859.

89. Joseph Vallod, of 26, Rue d'Angoulême du Temple, Paris, for "An apparatus for lubricating bodies revolving on journals and roller, by means of a cased cylinder."—Dated 7th January, 1859.

90. Victor Mauban, of 5, Rue Boileau, Paris, a Certificate of Addition to his Patent of 12th February, 1858, for "A sowing machine."—Dated 6th January, 1859.

91. Alfred René Dalifol, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Annealing furnaces with fixed crucibles."—Dated 7th January, 1859.

92. Edouard Aristide Servier, of 16, Rue Mazagran, Paris, a Certificate of Addition to his Patent of 10th November, 1858, for "An electro-magneto-magnetic signalling apparatus."—Dated 7th January, 1859.

93. Séraphine Volat, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 11th April, 1857, for "Improvements in tournure petticoats."—Dated 7th January, 1859.

94. Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 4th January, 1859, for "Purifying natural phosphate of lime."—Dated 7th January, 1859.

95. Alfred Louis Stanislas Chenot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A method of obtaining, volatilizing, removing, and collecting volatile metals and metalloids, and their volatile alloys, and especially zinc."—Dated 7th January, 1859.

96. Ira Dimock, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A self-acting machine for making twist."—Dated 7th January, 1859.—(American Patent, expiring 13th March, 1870.)

97. Pierre Gidéon Barry, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Preparing thick mineral oils for lamps."—Dated 7th January, 1859.

98. Charles François Mongin, of 11, Rue des Juifs, Paris, for "Manufacture of saws."—Dated 8th January, 1859.

99. Jean Baptiste Gajando, of 5, Rue Notre Dame de Nazareth, Paris, for "A kind of toys."—Dated 8th January, 1859.

100. Pierre Poultriez, of 215, Faubourg St. Honoré, Paris, for "A lustral liquid."—Dated 8th January, 1859.

101. François Jules Manceaux, of 31, Quai Napoléon, Paris, for "Blades of bayonets."—Dated 8th January, 1859.

102. Charles Joseph Charles Pavy, domiciled Rue de Rivoli, Hôtel du Douvre, Paris, a Certificate of Addition to his Patent of 6th December, 1858, for "An apparatus called 'preservatory granary, &c.'"—Dated 8th January, 1859.

103. François Augustin Duchanois, of 20, Rue Traversière St. Antoine, Paris, for "Marking the points at billiard games."—Dated 8th January, 1859.

104. Samuel Flechter Cottam, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for doubling or twisting cotton or other thread."—Dated 8th January, 1859.—(English Patent, expiring 11th August, 1870.)

105. Alfred Nobel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A water meter."—Dated 8th January, 1859.

106. Cavé and Claparède, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A single or double apparatus for loading and unloading earth or loads, or for damming up rivers."—Dated 8th January, 1859.

107. Louis François Clément Breguet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in arranging and constructing chronometers."—Dated 8th January, 1859.

108. Just Gidéon Mazoudier, of Clermont, département du Puy de Dôme, a Certificate of Addition to his Patent of 18th March, 1858, for "A wheelbarrow with two wheels underneath."—Dated 6th January, 1859.

109. Joseph Dumas, of Valence, département de la Drôme, for "Improvements in his system of natural fountains, as patented 14th January, 1858."—Dated 11th January, 1859.

110. Pierre Mialon, of Hauterives, département de la Drôme, for "An apparatus for expelling smoke."—Dated 11th January, 1859.

111. Pierre Vercasson, of St. Chamond, département de la Loire, for "A lace-loom with reduced bobbins."—Dated 12th January, 1859.

112. Pierre Moussy-Teysset, of 1, Rue du Grand-Moulin, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 27th September, 1858, for "A so-called 'escapement lock.'"—Dated 12th January, 1859.

113. Antoine Volant, of 12, Ile Gloriette, Nantes, département de la Loire Inférieure, for "A system of plaster kiln."—Dated 13th January, 1859.

114. Gilliot and Ungerer, of Erstein, département du Bas Rhin, for "A system of rectilinear joints, and clamping of pipes, tubes, bricks, and other ceramic articles."—Dated 8th January, 1859.

115. Frédéric Keim, of Thann, département du Haut Rhin, for "A shuttle cover for looms."—Dated 11th January, 1859.

116. Jean Perrier, of Nîmes, département du Gard, for "A system of stays of boilers."—Dated 11th January, 1859.

117. Jean Joseph Chareun, of 3, Rue de l'Espérance, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 14th January, 1858, for "Construction of iron steam boats."—Dated 13th January, 1859.

118. Pierre Sieber, of Audincourt, département du Doubs, for "Manufacture of bars and rails, compressed at a low temperature, and apparatus used therewith."—Dated 13th January, 1859.

119. Victor D'Anthenaise, of Angers, département de Maine et Loire, for "A rotary harvesting machine."—Dated 14th January, 1859.

120. Jean Baptiste Marie, of 16, Rue du Palais de Justice, St. Etienne, département de la Loire, for "A nail machine." — Dated 14th January, 1859.

121. Jean Baptiste Penot-Gauthe, of St. Saulge, département de la Nièvre, for "Various systems of motion for obtaining a perpetual movement, and special lamps for lighting those machines."—Dated 14th January, 1859.

122. Ainé Vitaux, of 13, Rue de Jemmapes, Lisle, département du Nord, for "Working soap."—Dated 15th January, 1859.

123. Jean Pierre Langlois, domiciled with Ballu, of 18, Rue Mulet, Lyon, département du Rhône, a Certificate of Addition to his Patent of 8th January, 1855, for "A kind of tiles."—Dated 14th January, 1859.

124. Jacques Bernard, of 1, Place de la Fromagerie, Lyon, département du Rhône, for "A system of syringes."—Dated 14th January, 1859.

125. Paul Expert, of 57, Rue de la Guillotière, Lyon, département du Rhône, for "A stoppering apparatus."—Dated 15th January, 1859.

126. François Curé, of Déville, département de la Seine Inférieure, a Certificate of Addition to his Patent of 10th April, 1854, for "Improvements in cast-iron frames of skylights."—Dated 10th January, 1859.

127. Jean Eugène Chaure, of Place d'Armes, Vitry le Français, département de la Marne, for "Orthographic pigeon-holes."—Dated 15th January, 1859.

128. César Corron, of Section de Valbenoite, St. Etienne, département de la Loire, for "A machine for dyeing silk."—Dated 15th January, 1859.

129. Ferdinand Hippolyte Mengin, of Rue du Pont de Marne, Epernay, département de la Marne, for "A machine for stoppering bottles."—Dated 15th January, 1859.

130. De Dax, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in fire-arms, by firing the gunpowder by means of electricity."—Dated 8th January, 1859.

131. Geneste, sen. and jun., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in smoke-consuming apparatus, applicable to all heating apparatus, furnaces, steam apparatus, &c."—Dated 8th January, 1859.

132. Jean Phillippe Varlet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in water-raising apparatus, applicable to fire-engines."—Dated 8th January, 1859.

133. Louis Le Chatelier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 23rd February, 1858, for "Applying fluoric acids to the manufacture of soda and potash."—Dated 8th January, 1859.

134. Edme Ferdinand Evras, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of suspending ladies' dresses, applicable to napkin-holders."—Dated 8th January, 1859.

135. Martin Mabille, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of gluten bread or cake."—Dated 8th January, 1859.

136. François Gustave Dauphin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mechanical table for the manufacture of candles."—Dated 8th January, 1859.

137. Jean Charles Antoine Lecour, of 29, Rue de l'Est, Paris, for "A scraping broom."—Dated 8th January, 1859.

138. Frédéric Ludewig, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Manufacture of a kind of yeast."—Dated 8th January, 1859.

139. Nicolas Marie Saligny, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 5th January, 1858, for "Improvements in the manufacture of portemonnaies, pocket books." — Dated 8th January, 1859.

140. Honoré de Ville, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the manufacture of bitumenized pasteboard for roofings, and applying said pasteboard." Dated 8th January, 1859.

141. William Hervey Morrisson, represented by Goutz, of 238, Rue de Rivoli, Paris, for "Improvements in machines and apparatus for the manufacture of quillings, tours, trimming of bonnets, and other fashionable articles, goffered, curled, and folded."—Dated 10th January, 1859. —(English Patent, expiring 4th May, 1872.)

142. Théophile Guibal, of 53, Rue d'Enfer, Paris, for "A process for cleaving down rocks."—Dated 10th January, 1859.

143. Pierre Antoine Théodore Poincelin, of 56, Rue St. Sébastien, Paris, for "Apparatus and composition for the manufacture of vinegar."—Dated 10th January, 1859.

144. Roger, domiciled 18, Rue Vivienne, Paris, a Certificate of Addition to his Patent of 1st October, 1858, for "Collodion embroideries."—Dated 10th January, 1859.

145. Léon Jean Emile Dupont, domiciled with Amaury, of 10, Rue de Valois Palais-Royal, Paris, for "A process for separating grits from waste flour."—Dated 10th January, 1859.

146. Jean Eustache Lemaitre, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Improvements in double-action pumps moved by gearings."—Dated 10th January, 1859.

147. François Jules Dufresne, represented by Bresson, of 57, Rue de Bretagne, Paris, a Certificate of Addition to his Patent of 13th August, 1857, for "Improvements in the mechanism of inodorous night-stools."— Dated 10th January, 1859.

148. Jean Ferdinand Lombard, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A reversing for regulating the working of escapements."—Dated 10th January, 1859.

149. Louis Alexandre Martin, of 63, Rue St. Maur Popincourt, Paris, for "A double-action machine for planing wood for joinery, carriages, &c."—Dated 10th January, 1859.

150. Alphonse Félix Patry, represented by Richard, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of lace."—Dated 10th January, 1859.

151. Jean Baptiste Joseph Portier, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of subduing and stopping saddle or carriage horses."—Dated 10th January, 1859.

152. Désiré Langrand, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of tallow and composite candles."—Dated 10th January, 1859.

153. Joseph Caumont, of 34, Rue Richelieu, Paris, for "An apparatus called 'electric refouloir.'" —Dated 11th January, 1859.

154. Charles François Dupuis, of 62, Rue de Bondy, Paris, for "A system of hooks for ornaments."—Dated 11th January, 1859.

155. Jean Conrad Meyer, of 18, Grand Rue Chapelle St. Denis, for "An apparatus for cooling beer and other beverages or liquids."—Dated 11th January, 1859.

156. Espérance Augustin L'Huillier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for introducing substances into the throat."—Dated 11th January, 1859.

157. Claire Brune Marbority, of 14, Rue Richepause, for "A washing process."—Dated 11th January, 1859.

158. Alexis Frédéric Herbillon, represented by Clerdent, of 2, Rue d'Ambroise, Paris, a Certificate of Addition to his Patent of 13th January, 1858, for "Improvements in dolls by using cork." —Dated 11th January, 1859.

159. François Bruguière, of 37, Rue Louis Philippe, Paris, for "An hydraulic system for raising water."—Dated 12th January, 1859.

160. Victor Pean, of 17, Rue de Crussol, Paris, a Certificate of Addition to his Patent of 14th March, 1857, for "Processes for improving or drying walls, &c."—Dated 12th January, 1859.

161. Francis Lombaer, represented by Fringant, of 10, Rue de Provence, Paris, for "A kind of moveable book-binding."—Dated 12th January, 1859.

162. Pierre Conreur, represented by Fringant, of 10, Rue de Provence, Paris, for "A system of welding tyres of railway carriages, locomotives, &c."—Dated 12th January, 1859.

163. Colin Mather, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in drying thread in skeins."—Dated 12th January, 1859.

164. Colin Mather, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in apparatus for allowing the escape of water and air from pipes, vessels, or chambers heated by steam." —Dated 12th January, 1859.—(English Patent, expiring 25th November, 1872.)

165. Robert Dawson, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A mercurial clock."—Dated 12th January, 1859.

166. Edme Augustin Chameron, of 162, Faubourg St. Martin, Paris, for "Improvements in manufacturing and assembling pipes."—Dated 12th January, 1859.

167. Louis Dominique Girard, of 44, Rue d'Enghien, Paris, a Certificate of Addition to his Patent of 13th March, 1857, for "Utilizing and distributing natural or artificial power, for the purpose of obtaining division of labour, &c."—Dated 12th January, 1859.

168. Emile Marcus, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "So-called 'ceramic jewels.'"—Dated 12th January, 1859.

169. Pierre Amable de Saint-Simon-Sicard, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A chemical and mechanical process for converting pig iron into steel."—Dated 12th January, 1859.

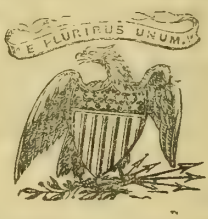
170. Louis François Devisme, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd December, 1858, for "A system of revolvers."— Dated 12th January, 1859.

171. Maurice Augustin Sormani, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A folding tournure petticoat."— Dated 12th January, 1859.

172. Sébastien Pichancourt, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A clyster."—Dated 13th January, 1859.

173. Joachim Antoine Joseph Liebermann, of 18, Boulevart du Temple, Paris, a Certificate of Addition to his Patent of 23rd December, 1856, for "A kind of presses."—Dated 13th January, 1859.

174. Théodore Knauth, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 22nd December, 1858, for "Improvements in fire-arms." — Dated 13th January, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 1st February, 1859, and each bearing that date.

No. 22,773. Manoah Alden, of Philadelphia, Pa., for an "Improved apparatus for raising and forcing fluids."

"I wish it to be distinctly understood that I lay no claim to the parts herein described, separately or disconnected from each other; but I claim, and desire to secure by Letters Patent, the wheel B, with any convenient number of buckets

formed by the opposite curved vanes *c*, said vanes being placed obliquely to the plane of rotation, and being of a tapering form, so that the buckets may be broader near the centre of the wheel, than at the edge of the same, in combination with a wheel race or chamber adapted to the form of the buckets and with the spiral channel D, the whole of the parts being arranged, in respect to each other, and constructed, as and for the purpose herein set forth."

No. 22,774. Chas. F. Allen, of Indianapolis, Ind., for an "Improvement in burners for vapour lamps."

"What I claim, and desire to secure by Letters Patent, is, the combination and arrangement of the tube F, and lighter G, when constructed and arranged substantially as and for the purposes set forth."

No. 22,775. Zachariah Atkinson, of Richmond, Geo., for an "Improvement in cotton press."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent, is, the cam rollers F in combination with the levers D and E, substantially as set forth for the purposes described."

No. 22,776. J. B. Atwater, of Berlin, Wis., for an "Improvement in car couplings."

"I do not claim the employment of any of the parts of this coupler to be new, uncombined and differently arranged, as I am aware that the pin has been thrown down in other couplers, by means of the link pressing against such parts as affect it; hence, I disclaim all other modes of effecting the result herein attained, confining myself to the arrangement specified herein, to wit: The arrangement of the tumbler *c*, rod C, connecting piece D, lever E, which is provided with a foot piece *o*, pin *d*, rollers *m*, *n*, and door or platform *i*, the whole being combined and operated in the manner and for the purpose herein specified."

No. 22,777. Chas. F. Bellows, of Seneca Falls, N. Y., for an "Improvement in pumps."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and construction of a pump, as above set forth, by means of a right-handed and left-handed screws, the threads of one operating within those of the other, as above described, or other mode, substantially the same."

No. 22,778. D. P. Burdon, of Brooklyn, N. Y., for an "Improvement in ovens."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the arrangement of a series of hinged cars (*a*) around around a disk-plate (*d*), so that they will deliver bread pans with their contained bread at the proper place of discharge, and also receive the said pans in their revolution, substantially in the manner herein-before set forth; and in combination therewith, I claim the circular tract (A, A[1]), so arranged as to support the ends of said cars (*a*) upon friction rollers (*n*), while at the same time, allowing each car (*a*) to deposit its pan at the proper place, and restore said cars (*a*) to their proper position to receive the return pans, with their bread, in the manner and for the purposes herein set forth. 2d, I claim operating the sliding doors (E, B), by means of the radial arms (*b*) (or their equivalents), projecting from the driving shaft (*g*), so that the doors (E, B), will be alternately opened and closed at the proper time for delivering the bread, and receiving the bread to be baked. 3d, I claim operating the traversing follower (*r*, *r*[1]), by means of radial arms (*c*) (or their equivalents), for feeding the pans into the oven, when the same is so arranged that the pans will be fed into the cars (*a*), while the door (B) is open; and in combination therewith, I claim the compensating pulley wheel (*w*) and weight (*y*), for equalizing the motion and returning the traversing follower (*r*, *r*[1]).

No. 22,779. John Burnish, James Talbot, and Thos. W. Yardley, of Pottsville, Pa., for an "Improvement in fluxes for puddling iron."

"We do not claim the separate use as a flux of the substances herein mentioned, or a compound of any two or three of the said substances; but we claim, and desire to secure by Letters Patent, silicious sand, loam, alum, clay, lime, oxide of iron, and talcose rocks, when used collectively in or nearly in the proportions herein described, as a flux in the process of puddling iron."

No. 22,780. Ziba Casterline, of Liberty, Ind., for an "Improved washing machine."

"Having described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is, the employment of balls *h*, *h*, *h*, attached to the rubber E of a washing machine, when said rubber has a reciprocating movement in the tub, constructed and operating in the manner and for the purposes set forth."

No. 22,781. Reuben Cave, of Louisville, Ky., for an "Improved machine for polishing metals."

"I do not claim the running of two polishing grit stones together or running them both at the same time; but what I claim as my new and useful invention and improvement, and desire to secure by Letters Patent, is, the running of two polishing grit stones edge to edge in opposite directions, one immediately above the other (and both running at the same time), the upper stone running one third faster than the under one."

No. 22,782. Willis L. Childs, of Piermont, N. Y., for an "Improvement in R. R. car seats."

"I do not claim broadly a reversible car seat; neither do I claim, irrespective of arrangement and construction, a car seat capable of being converted from an ordinary day seat into a sleeping couch at night, and vice versa; neither do I claim suspending a seat upon the point *a*[1], irrespective of arrangement and construction, for many plans have been devised for effecting such purpose; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching to each end of the planes or boards A and B a curved or segment bar lapping by each other, so that they will form an arc, having for its center the point at which the planes or boards A and B are hinged or jointed. I also claim suspending a car seat upon the point *a* ×, in combination with the hinging of the planes or boards A and B, substantially as shown, so as to enable it to be reversed without concussion, and also to be used as a reclining seat or sleeping couch."

No. 22,783. Wm. Coutie, of Troy, N. Y., for an "Improved water wheel."

"What I claim as my invention, and desire to secure by Letters Patent, is,—First, I claim the stationary plates arranged as described, so as to prevent a rotary motion in the water when acting on a screw wheel. Second, I claim placing the gate below the surface of the back water in connection with the draft tube, for the purpose specified."

No. 22,784. Joseph Cowee, jr., of Keene, N. H., for a "Method of variegating wood."

"I do not claim broadly the condensation of the fibres of the wood for purposes of ornamentation; but having described my invention, I claim, and desire to secure by Letters Patent, the employment of rollers B, H, in the manner substantially as described, for the purpose of variegating wood, all as set forth."

No. 22,785. Wm. M. C. Cushman, of Albany, N. Y., for an "Improvement in splice of bar rails."

"Having thus described my invention, and having also described the flanch, fillet, or rib (*b*) outside of the flat bar rails, and up to and even with the top or bearing surface thereof, it is hereby expressly understood that I do not claim it even therewith, for the purpose of receiving the tread of car wheels or any part thereof of any train of cars passing over the rails of any railroad, or for any other purpose than specially to add strength to the splice plate, and to prevent lateral displacement of the flat bar rails aforesaid by means of the said splice plate; but what I do claim, and desire to secure by Letters Patent, is, in combination with the flat bar rail, the splice plate or piece Figure Six, constructed in the manner and for the purposes herein described."

No. 22,786. Chas. G. Dickinson, of Poughkeepsie, N. Y., for an "Improvement in harvesters."

"Disclaimer.—I do not claim the slots, neither the endless chain or belts. Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the curved arms O, curved feet E, and braces or compressors F, with the endless belts or chains B, when arranged with relation to each other, and to the platform A, and operating together in the manner described for the purpose specified."

No. 22,787. Porter Dodge, of Francistown, N.H., for an "Improvement in stoves."

"Having described my improvement in stoves, what I claim therein as new, and of my invention, and desire to secure by Letters Patent, is, an improved air-tight stove, the several parts being constructed and arranged in relation to each other substantially as shown and described."

No. 22,788. James B. Duff and Thos. W. Keating, of New York, N. Y., for an "Envelope machine."

"We do not claim, broadly, the invention of oscillating lappers to fold envelopes, nor do we claim the arrangement

and combination of a half circle with the heels or base of the lappers; but we distinctly disclaim the folding flaps projecting from the center, or nearly so, from the end of a shaft or shafts, and having their bearings on one end, or on each end thereof, whether with or without the half circles, as set forth in the 3d Claim of Milton G. Puffer's Patent, Nov. 23d, 1858, and we hereby disclaim all and every part covered by said Puffer's invention. Having thus fully described our invention, we will proceed to state what we claim as our invention, and desire to secure by Letters Patent:—1st, we claim the combination of the pasters *a*, *a*, the grooved pressure fingers S, S, and the spring plates K^1, K^1, the whole being applied to operate substantially as herein set forth. 2nd, in combination with a folding table, having its surface composed of india-rubber or other elastic substance, we claim the use of a plunger operating through a die above the said table, and provided with sharp projecting edges for the purpose, after it has forced the blank through the die, and thus turned back the flaps, of making a sharp crease where the fold is to be made by pressure between said edges and the elastic surface, substantially as herein described. 3rd, we claim placing the faces of the lappers I^1, I^2, I^3, I^4, in front of their centers of motion, and their axes above the level of the table, as herein shown and described, so that the plunger E, when it descends, shall pass close against the faces of the lappers and the heels of the lappers, when the latter close, will move outward away from the paper as herein shown and described. 4th, we claim having an open space between the heel of the lappers I^1, I^2, I^3, I^4, to receive and hold the edges of the paper, when it is pressed therein by the descent of the plunger, as and for the purposes herein shown and described."

No. 22,789. Wright Duryea, of Glencove, N. Y., for an "Improvement in apparatus to manufacture starch."

"I do not claim to have invented the process of obtaining the starch water, by frequent repetitions of the grinding, washing, and bolting processes; but what I claim as my invention, and desire to secure by Letters Patent, is,—1st, the within described system of arranging and combining the grinding, washing, and bolting apparatus, to wit: the arrangement of all the stones side by side with their respective washers conveniently placed below them, with the arrangement of the bolting cylinders below their respective stones in horizontal series, with one or more interposed endless chain elevators P, combining them with the stones next in order of succession in the series, as herein set forth, whereby the whole apparatus is brought within two stories of a building, and convenience is afforded for its supervision, and the other advantages herein set forth are obtained. 2nd, the combined arrangement of the lower bolting cylinders I, I, and inclined plane or table O, with the troughs or gutters *m* and *t*, substantially as described, whereby I am enabled to convey away the starch water and the tailings from the said cylinders, by a single conductor for each purpose."

No. 22,790. Chas. O. Farrington, of Brewer, Me., for an "Improvement in machine for turning or edging bricks."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the slats E, attached by joint hinges *a*, to the bars A, A, and connected by joints *c*, to the bar F, which has the spring G attached to it, the whole being arranged substantially as and for the purpose set forth."

No. 22,791. Chas. Fasoldt, of Rome, N. Y., for an "Improved escapement for time-keepers."

"What I claim as my invention is, the employment of a straight lever and collateral hook in the position and form indicated and described."

No. 22,792. Saml. T. Field, of Worcester, Mass., for "An improved machine for manufacturing wooden troughs."

"Having thus described my improvements in machines for sawing gutters, what I claim therein as new, and desire to secure by Letters Patent, is, arranging the bearings of the saw, and the mechanism by which it is driven, substantially as described, whereby the upper surface, and also the interior of the saw, is left unobstructed for the purpose set forth. I also claim, in combination with a cylindrical saw, a secondary cutter, arranged substantially as described, so as to groove the core of the stick, while it is being sawed out by the cylindrical saw."

No. 22,793. Joseph Fox, of Lansingburgh, N. Y., for an "Improved cracker machine."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—First, the depressions in the spaces between the grooves in one or both of the rollers that form the strips of dough from the sheet, as herein described, for the purpose specified. 2d, I also claim forming short sections of skin-covered strips of dough into disks or crackers by pressure applied to ends of the sections by the devices, substantially as herein described. 3d, I claim the rollers, substantially as described, by which the crackers are rolled on the apron, and by which the skin on the upper surface of the pressed crackers is improved. 4th, I also claim the combination of the straight edges for evening the rows of crackers before rolling, and also for docking, as specified, with the dockers, substantially as herein set forth. 5th, I also claim the employment of the clamp bars I, I^1, in combination with the knife H, as herein described, to cut off and hold the sections of the strips of dough, as the strips are fed through the bar G, as specified. 6th, and, finally, I claim the plane T, follower U, and second endless apron, substantially as combined and arranged among themselves, and with the other endless apron, for the purpose of taking rows of crackers from a moving endless apron, and placing them upon slides or bake pans."

No. 22,794. James Freeland and Robt. H. Lecky, of Alleghany, Pa., for an "Improvement in slide valves of steam engines."

"Having thus described the nature, construction, an operation of our improvement, what we claim as our invention, and desire to secure by Letters Patent of the United States, is,—First, the arrangement of t e armed flange M, on the steam pipe L, the columns R, the studs O, with nuts P, and the cap K, the whole being arranged and secured to the valve seat A, as herein described and represented. Second, the arrangement of chamber G with opening H, as herein described and represented, and for the purpose set forth. Third, the combination and arrangement of the armed flange M on the steam pipe L, columns R, studs O, with nuts P, stuffing box N, cap K, and slide valve B, with the valves seat A, the whole being arranged, combined, and operated as herein described, and for the purpose set forth."

No. 22,795. Joseph W. Gardner, of Shelburne Falls, Mass., for "Improved handles for table cutlery."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a table knife having its handle composed of two or more parts (*a*, *b*,) the ends of which are encompassed by ferules (*d*), and otherwise constructed, as herein shown and described."

No. 22,796. Dwight Gibbons, of Rochester, N. Y., for an "Improvement in spermatic rings."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the employment, in a ring encircling the penis, of a sharp pin or point, attached to a spring, which is held by a roller *i*, or other equivalent rest, so as to prevent the protrusion of the said pin within the interior surface of the ring till distension of the penis occurs, and by its action on the spring causes its liberation from the roller or rest, and thereby permits the said spring to force the pin or point into the penis, substantially as described, with a sudden action, instead of with the gradual action peculiar to the points of other rings for the same purpose. 2nd, the combination of the two semi-circular, or nearly semi-circular springs, with the two rigid sockets, substantially as herein described, by means of a slot and set screw in one of the sockets, which permits the ring of the instrument to be adjusted to organs of various sizes."

No. 22,797. John W. Gould, of Elmira, N. Y., for an "Improvement in railway chairs."

"What I claim as my invention, and desire to secure by Letters Patent, is, the self-securing 'lock wedge' C, arranged in combination with the rails A, A, chair seat B, and key D, substantially in the manner and for the purpose herein specified."

No. 22,798. Nathl. B. Hatch, of Lawrenceville, Pa., for an "Improvement in retorts for distilling coal oil."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application and use in retorts used in distillation of coal or other substances from which oil or gas is produceable, of a sweep bar or arm, with plates attached, substantially as above described, and operated so as to push or spread the material placed within over the floor or bottom, and at intervals discharge the same continuously in openings at or near the edge of the retort, substantially as set forth in the foregoing specification and drawings."

No. 22,799. Asa P. Hawse and Luther J. Adams, of Morrisville, Vt., for an "Improved scrubbing pail."

"We claim as our invention, the combination of pail P, rollers R, R^1, and pieces a, a^1, and C, arranged and operating substantially as and for the purposes set forth."

No. 22,800. Geo. W. Heard, of Boston, Mass., for an "Improvement in shirt collars."

"I claim as an improvement in the 'turn-down collar,' the construction of the same with four cravat slots or passages a, b, c, d, arranged therein, or with respect to the ends of the inner fold of the collar, and for the purpose of receiving a cravat or tie ribbon, substantially as specified. I also claim the above described mode of applying or arranging a cravat or necktie in the collar, constructed with the four slots or passages a, b, c, d, arranged within it, or with respect to the ends of its inner fold, essentially as herein-before explained."

No. 22,801. John Hebden, of Medford, Mass., for an "Improved washing machine."

"I claim the machine constructed substantially in manner and to operate as described, that is to say, with a removable dasher, or its equivalent, and a removable platform, combined and arranged with the suds, reservoir, and mangle rollers, essentially as set forth, the whole not only enabling the operation of washing the clothes, expressing the water from them, and mangling them, to be carried on consecutively, but causing clothes to be drawn out of the suds reservoir, and the expressed water to be received into it, as specified."

No. 22,802. Isaac A. Hedges, of Cincinnati, Ohio, for an "Improvement in mill for grinding cane, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, surrounding the openings in the top and bottom plates with annular ledges L, when employed in connection with rollers, having recesses corresponding with them in their top V and bottom ends, substantially as described. 2d, I claim the regulator and adjuster, substantially as and for the purposes described. 3rd, I claim the oil tubes H, when used in connection with a recess containing waste oil, to conduct the same through the rollers to the bearings below. 4th, I claim the corrugated shells in combination with the rollers, for the purpose of readily converting the mill into a corrugated mill, constructed and adapted substantially as set forth."

No. 22,803. James A. Hendrick, of Providence, Pa., for an "Improved machine for grinding and polishing saws."

"I do not claim, separately, any of the parts herein shown and described; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the grindstone or emery wheel B, in combination with the feed rollers D, D, placed in the adjustable frame C, the whole being arranged to operate substantially as and for the purpose set forth."

No. 22,804. Dexter Henshaw, of Fitchburgh, Mass., for an "Improved clothes frame."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the four arms and the block, with the cords, screws, and braces, as above described, and for the pusposes aforesaid."

No. 22,805. W. T. Hildrup, of Harrisburgh, Pa., for an "Improvement in rotary harrows."

"What I claim, and desire to secure by Letters Patent, is, giving the sleeves B, B^1, an invariable connection at one extremity, and a variable connection attached to the draft bar at the other, substantially as and for the purpose set forth."

No. 22,806. Geo. W. Holman, of Beloit, Wis., for an "Improvement in machine for making meal and flour."

"I do not claim adjustable knives for the purpose of grinding grain, or screws for feeding grain to grinding surfaces in mill, or cone pulleys, or tangent screws, or emery wheel for sharpening knives; but I do claim the placing a series of knives supported by gudgeons in a circle or part of a circle, so that the thickness of the shaving cut by the edge of one knife shall be gauged by the back of the knife next to it, as and for the purpose specified. And I also claim the placing a series of knives supported by gudgeons, so that the rankness of set of all of them may be uniformly graduated by one operation, and so that their faces may be thrown back into one uniform surface for grinding or sharpening, substantially as set forth. I also claim the band f at the end of the knives, constructed and operating substantially as described. I also claim the arrangement of the reversed screw threads on the arbor n, and the reversed screw threads on the core, for the purpose of moving grain in opposite directions at the same time, as combined with the other parts of my machine, substantially as set forth above."

No. 22,807. Wm. H. Hope, of Washington, D. C., for an "Improvement in mill for grinding grain."

"What I claim, and desire to secure by Letters Patent, is, the combination of a cylindrical corn and cob cutter and crusher for grinding food for cattle, with two sets of grinding surfaces, arranged and operating substantially as and for the purposes set forth. 2nd, I claim the arrangement by which the cylindrical rollers or cutters and crushers and grinding surfaces may be operated, together or separately, as and for the purposes set forth and described. 3rd, the mode of regulating the cylinders and stone for the purpose of grinding course or fine by the use of the screw lever l attached to the journal boxes e, which move on ears or lugs firmly attached to frame F, in the manner described and specified."

No. 22,808. Wm. S. Hudson, of Paterson, N. J., for an "Improved apparatus for regulating the draft of steam engines."

"Having now fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is, First, the interposition of a perforated diaphragm E, constructed substantially as within described, between the steam and exhaust pipes, and extending down to or near the level of the lower tubes, substantially as and for the purposes herein shown and described. Second, making the apertures above the base of the diaphragm E of such area, that when the locomotive is standing still, the gaseous products of combustion may flow through without serious obstruction, but that when the combustion is increased by the blast a large portion is compelled to pass underneath, substantially as above set forth."

No. 22,809. Geo. C. Jennison, of Ware, Mass., for an "Improvement in ovens."

"I do not claim an endless carrier in combination with and arranged in a baking chamber, separated from a furnace or chamber of combustion by a partition wall, or equivalent, through which the heat from the furnace has to pass, in order to obtain access to the baking chamber; but what I do claim is, the application of the baking chamber of the endless carrier to the furnace, in such manner that the air within the said baking chamber may come into direct contact with the furnace charge, or heated volatile products arising therefrom, and be heated thereby without the heat having first to pass through any dividing wall or partition, or its equivalent. I also claim the arrangement of the baking chamber with respect to the furnace and its discharge flues, substantially as herein-before described, and as represented in the drawings, whereby the advantage of the ascending power of the heat is availed of, while the smoke is carried off by the flues. I also claim the arrangement of the charging and discharging orifices of the baking chamber, with reference to it, and the lower smoke eduction passage leading into the discharge flue of the oven. I also claim the arrangement and application of the pendulous platforms, and the endless carrier, together and within the vertical baking shaft. I also claim the combination and arrangement of one or more openings i, i, and their damper or dampers, with the baking chamber and its furnace and flues, arranged as specified."

No. 22,810. O. W. Jipson, of Rochester, N. Y., for an "Improvement in weighing scales."

"I do not claim separately any of the parts herein shown and described; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, the sliding block H, when provided with the rollers k, l, and slides or supplemental weight I, arranged and combined, as shown, for the purpose specified, and with or without the rack j and pinion m. 2nd, the adjustable block J, provided with the slide or weight s, graduated bar r, in combination with the nut or supplementary weight q, as and for the purpose set forth. 3rd, the attachment of the lever C to the platform frame, as shown, whereby the same may be adjusted further in or out from the frame, as circumstances may require. 4th, the arrangement of the bars L, L, L, L, K, K, with their sockets v, v, b^1, b^1, and with the frame B, substantially as shown, to admit of the adjustment of the bars to receive platforms of greater or less size, as required. 5th, the employment or use of the sleeve F, attached or applied to the beam G, as and for the purpose specified."

No. 22,811. Edward Jones, of Brooklyn, N. Y., for an "Improvement in floating and revolving derrick."

"I believe I have described and represented my improved derrick, so as to enable any person skilled in the art to make

and use it; I will now state what I desire to secure by Letters Patent, to wit: I claim the arrangement of the turn-table or frame, which carries the derrick, when placed on the bottom of the scow or below the deck, substantially as described. I also claim supporting the upper turn table or frame of the derrick, by means of a circle and wheels, substantially as described."

No. 22,812. Wm. W. Lewis, of Cincinnati, Ohio, for an "Improved horse-shoe machine."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the combination, in a pair of rolls, of a groove b, b, b^1, and creasers a, which will, by their joint operation, exert pressure in a lateral as well as a longitudinal direction, substantially as and for the purpose set forth. In combination with the above, I claim, 2nd, dividing the rollers radially and vertically, substantially as and for the purposes set forth."

No. 22,813. Henry Martin, of Louisville, Ky., for an "Improved tool for crozing and chamfering barrels."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the stock A, provided with the rollers C, C, arranged so as to be capable of being adjusted longitudinally and laterally in the stock, substantially as and for the pnrpose set forth."

No. 22,814. J. B. Martin, of Wilmington, N. C., for an "Improvement in apparatus for increasing the draft of furnaces."

"Having thus described my improvements in apparatus for accelerating the draught of locomotives and other steam engines, &c., what I claim as my invention, and desire to secure by Letters Patent, is,—First, the combination of a fan with the exhaust, when arranged within the smoke stack, substantially as described, so that the exhaust steam, as it issues from the exhaust pipe, acts directly on the blades of the fan, and then passes with the products of combustion in a direct path through the fan and through the smoke-stack, thus causing the fan to turn with high velocity, and thereby accelerating the draft of the furnace, as set forth. Second, the combination of the deflecting plates with the blades of the fan, for the purpose of intercepting sparks and cinders, as above described."

No. 22,815. Thos. E. McNeill, of Philadelphia, Pa., for an "Improvement in sleeping cars."

"I do not claim, broadly, so altering the seats of railroad cars, that they may be arranged as longitudinal sleeping couches, in four rows, with two passages; but I claim, and desire to secure by Letters Patent,—First, constructing the seat C, of the swing-seat of a railway car, with guiding strips a and b, or their equivalents, and padded leaves H and H^1, hinged together and to the seat, so that the latter may be extended and form a comfortable couch for sleeping purposes. Second, the frame e^1, arranged to receive the padded board e, when the frame is hung to one end D of the couch, and the board to the opposite end by rods f, and when the whole is combined with the swing seat of a railway car, so as to form a rest for the back during the day, and a sleeping couch for the night, as herein set forth."

No. 22,816. C. A. Merchant and G. L. Patterson, of Frankfort, Ky., for an "Improvement in coffee pots."

"We do not claim a reservoir containing cold water, as such is well known; but what we do claim as our invention, and desire to secure by Letters Patent, is, the combination and arrangement of the cylinder H, in the reservoir B, with the tubes D, E, and F, C, in the manner and for the purpose herein-before described."

No. 22,817. Wm. T. Mills, of Galesburgh, Mich., for an "Improvement in clover pickers."

"I do not claim any of the members of this machine, individually, as they are not new; but having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, providing the teeth F, F, with the holes i, i, i, and angular plate H, when arranged at the front edge of the adjustable platform, or box A, and in relation to each other, in the manner described, and for the purpose specified."

No. 22,818. Stephen F. Palmer, of New York, N. Y., for an "Improvement in discharging water from floating dry docks for canals."

"What I claim as my invention, and desire to secure by Letters Patent, is, the manner of discharging the water from a floating dock, by means of the under-ground trunk, in combination with the flexible apparatus, to convey the water from the dock without interfering with its rise and fall, not confining myself to any particular manner, provided it produces the same result, of giving the water a self-acting discharge, substantially as before described."

No. 22,819. Wm. P. Parrott and Stephen H. Head, of Boston, Mass., for an "Improved variable exhaust pipe."

"Claim.—What we claim as our invention, and desire to secure by Letters Patent, is, the within-described contracting orifice for blast pipes, constructed and operating in the manner and for the purpose substantially as herein set forth."

No. 22,820. Jones Patrick, of Chicago, Ill., for an "Improved variable exhaust pipe."

"Having thus fully explained the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a revolving cylinder or plate of variable sized exhaust openings, the rock shaft, pawl, radius bar, and their several connections, substantially in the manner and for the purpose set forth."

No. 22,821. John F. Peabody, of Salem, Mass., for an "Improvement in sash supporter."

"I do not claim the invention of a rack and a catch; nor the arrangement of a rack, or its equivalent, in the grooved jamb of the window frame, so as to be covered by the sash while being raised, whether such rack be placed on the bottom of the groove and against the edges of the sash, or against the rear side of the groove, and against the rear or outer side of the sash; but what I do claim is, my improved application or arrangement of the rock bar D, with reference not only to the groove a of the window frame, but to the inner side of the sash B, and to the catch applied thereto, as described, the rack bar under such arrangement not only being in full view with the catch at any altitude in which the window sash may be placed in the frame, but operating not only to support the sash at such altitude, but to maintain it within the groove a, as specified."

No. 22,822. Sylvester W. Pearsall and Washington L. Pearsall, of New York, N. Y., for a "Photographic plate vise."

"What we claim as our invention, and desire to secure by Letters Patent, is, the spring rocking jaw and lever f, in combination with the movable jaw e, substantially as described and shown. We also claim the jaw pieces or facings of hard rubber or gutta percha, for the purposes and as specified. And we claim the arrangement of the rod d, stock c, and gudgeon b entering the socket a, and having the set screw k, by which the apparatus is retained in position, horizontally as specified."

No. 22,823. G. W. Penniston, of North Vernon, Ind., for an "Improvement in cotton bale hoops."

"Having thus fully described my invention, what I claim as my invention, and desire to secure by Letters Patent, is,—1st claim: the tye A, or friction key, constructed as described, with its convex inner bearings 1 and 2, Fig. 3, when constructed and operated in the manner and for the purposes above specified."

No. 22,824. Sylvester Persons and Alfred W. Cone, of Panama, N. Y., for an "Improvement in harvesters."

"Claim:—1st, we claim arranging and operating the chain cutters upon an adjustable and vibrating cutter frame, in the manner and for the purposes substantially as described. 2nd, we claim the arrangement of two or more rollers (J, J,) relatively to the chain cutters, multiplying wheel c, and adjustable vibrating cutter frame, so that the rollers will form a bearing for the chain cutters, and support and hold the chain in gear with the multiplying wheel, whatever may be the position of the adjustable vibrating cutter frame in passing over unlevel surfaces, substantially as herein set forth."

No. 22,825. J. E. Rice, of Oneida, N. Y., for an "Improvement in fanning mills."

"I do not claim, broadly, operating the shoe B by a crank; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the suction chamber D, spouts E (j), plate F, and shoe B, substantially as and for the purpose herein shown and described."

No. 22,826. Nathan F. Rice, of New Orleans, La., for an "Improved filtering apparatus."

"Having thus described my invention, what I claim, and desire to secure by Letters Patent, is, First, passing the water through the filtering medium from below upwards, in the manner specified. Secondly, I claim the concavo-convex perforated false bottom or diaphragm, constructed and arranged substantially as described. Lastly, I claim the air tube K, leading from the lower chamber F, as and for the purpose specified."

No. 22,827. John W. Richards, of New York, N.Y., for an "Improved fire and ventilating apparatus for ships."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, arranging and applying the pipes F, F¹, J, or their equivalents, leading to the different parts of the vessel, in combination with suitable connections with a boiler and a blower or air forcing apparatus, that the said pipes may be used as required, to supply either air for ventilation or steam, for the extinction of fire, substantially as herein described. 2d, applying the several lengths of pipe in a train, that they are capable of being turned in their joint boxes or supports, for the purpose of giving such direction to the ventilating air supplied by each length, as the occupants of the berth or part of the vessel supplied by it may desire, as herein described."

No. 22,828. Thomas Russell, of New York, N.Y., for an "Improvement in ovens."

"I do not claim to be the inventor of an oven in which the substance to be baked travels horizontally from a door where it enters to a door on the same side where it is discharged; but what I claim as my invention, and desire to secure by Letters Patent, is, the employment, in such an oven, in combination with permanent ways or tracks, arranged at right angles to each other, within, without, and through the doorways, substantially as described, and with a series of carriages to run on such ways, of a system of horizontal screws and endless chains, applied substantially as specified, and of teeth, or their equivalents, on said carriages, to connect with said screws and chains: the whole operating substantially as and for the purpose set forth. And I also claim the opening of the oven doors, to admit and permit the exit of the carriages by the direct action on the doors of the carriages themselves, substantially as described, thereby dispensing with special machinery for that purpose."

No. 22,829. Gelston Sanford, of Poughkeepsie, N. Y., for an "Improvement in Buhr stone mills."

"Having thus fully described my improvements, what I claim as new, and desire to secure by Letters Patent, is, —First, I claim the mode of constructing the casing or shell, with a vertical or upright joint J, in combination with the lever G, and wedge K, as a fastener for the shell. 2d, I claim the grinding part Q, Q¹, and the elevating part 1, in combination with the cone B, and shell B¹, when constructed and operated in the manner and for the purposes above specified."

No. 22,830. Saml. S. Squire and Theodore Scharfenburg, of Brooklyn, N. Y., for an "Improved hinge."

"Having thus described our improved method of constructing hinges, we will state what we desire to secure by Letters Patent. We are aware that hinges have been constructed with a separate pin for each core; and also that centres have been cast on one leaf, and fitted by recesses on the other leaf, by means of cores or chills, and we, therefore, disclaim such devices. What we claim as our improvement, and for which we desire Letters Patent, is, providing the half leaves on one side of a butt, with the hinge pins G, G, or I, which are solid with the pattern, and form part thereof, when cast in the manner specified."

No. 22,831. Alfred Sheek, of Smith Grove, N.C., for an "Improvement in dressing millstones."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a plain surfaced land *a*, the depression *c*, and convex furrow or surface from *c* to *e*, the whole forming a new mill dress, for the purpose and in the manner described."

No. 22,832. H. B. Thomas, of Portage City, Wis., for an "Improved rotary steam engine."

"I do not claim the arrangement of the revolving piston wheel of a rotary engine or pump, eccentrically within and in contact with an external cylinder; but what I claim as my invention, and desire to secure by Letters Patent, is, 1st, so constructing and combining a piston wheel and sliding pistons with two eccentric cylinders, one outside and the other inside the said wheel, that with a proper arrangement of induction and eduction passages, those parts of the pistons within the rim of the wheel, as well as those without, are rendered effective in the operation of the engine, as herein described, and it is thereby rendered double acting, either in its employment as a motor, or as a pump, or as a combined motor and pump. 2d, the combined arrangement herein described of the passages and cavities in the cylinder head B¹, ring valve I, and bonnet N."

No. 22,833. Wm. W. Wade, of Longmeadow, Mass., for an "Improvement in sewing machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application to sewing machines of the ratchet or corrugated wheel and pall, the pall being kept in place by a friction cam or its equivalent as above described, and the motion being communicated to the machine, either by a double crank as above described, or by a single crank or other appropriate means. I do not claim a pall and ratchet, operated by a lever moved by the limb of the person using the machine."

No. 22,834. Geo. Walker, of Fort Jervis, N. Y., for an "Improved machine for grinding saws."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the arrangement and combination of the wheel I, and bed plate F, substantially as herein shown and described, whereby said driving wheel is made to drive the bed plate, and also to compensate for the pressure of the grindstone, as set forth. 2d, I claim the flat bottomed water recess (*c*, *c*,) in the face of the bed plate F, as shown."

No. 22,835. Chapman Warner, of New York, N. Y., for an "Improvement in cast-iron pavement."

"What I claim as my invention, and desire to secure by Letters Patent, is, the mode of constructing pavements of iron frames of any size, substantially of the form described above, and illustrated by the accompanying drawings, placed at right angles to each other, each surmounted by a single boss, which constitutes the traveling surface, it being so arched and placed upon the frame, and the frames so connected with each other, that the pressure arising from a weight imposed upon any boss, or upon any part of it, shall not be borne exclusively by any one part of the frames, but shall be diffused over it, and over the adjoining frames, the manner of connection at the same time preserving the regularity of the surface, by preventing the elevation or depression of any one boss above or below the surface of the others. The space left by the frames to be filled with any material which the circumstances of each particular case may determine."

No. 22,836. Chas. Williams, of Philadelphia, Pa., for an "Improvement in sizing for colored papers."

"Having thus fully described my invention, or improved sizing, what I claim as new, and desire to secure by Letters Patent, is, the employment or use in a sizing for marbled and other colored papers of the solution of the gum resin lac, in combination with the, a solution of either soap or bees-wax or both, the said solutions being made and incorporated together in the sizing, substantially in the manner and for the purposes described."

No. 22,837. Aurin Wood, of Worcester, Mass., for an "Improved machine for shaving the heads of screw blanks."

"What I do claim as my invention, and desire to secure by Letters Patent, is, the wheel with its volute and twisted slot substantially as described, in combination with the ways or the equivalent thereof, to present the blanks in order as described, by means of which combination the blanks are separated one by one, and gradually brought to a horizontal or nearly horizontal position, as set forth. I also claim, in combination with the wheel having a volute and twisted slot substantially as described, for receiving the blanks one by one from the separating wheel, as set forth. And I also claim the combination of the inclined ways, the separating wheel with its volute and twisted slot, the feeding tube and punch rod, or the equivalent thereof, with the jaws on the mandrel as described and for the purpose set forth. And I also claim communicating motion to the separating wheel, by an interposed spring spur or catch, or the equivalent thereof, substantially as described, that the spring connection between the impelling mechanism and the separating wheel or its equivalent may yield to any obstruction, and thus prevent injury to the mechanism as set forth."

No. 22,838. James Lee, of New York, N. Y., assignor to himself and Milton Finkle, of said New York, for a "Stereoscopic apparatus."

"I am aware that revolving stereoscopic machines have been in use previous to this time, operated in a variety of ways, one of which is by an endless band, patented by Alex. Beckers, April 7th, 1857, of the city of New York, but to my knowledge there is none constructed and operated upon the principle here claimed. I therefore claim the fan or segment hinge I, Fig. 2, or its equivalent, in combination with the picture holders F, F, for the purpose specified. I claim the controlling band H, or equivalent, for the use herein specified. I claim the elastic band E, or its equivalent, in combination with the pulley B, and rollers C, C, and D, D, for the purposes specified. I claim the picture holder Figs 4 and 5, as described, for the purposes set forth. Finally, I claim the combination as set forth and described; but do not confine myself to the exact proportions, as I may vary the same, while I obtain the same end, by means essentially the same."

No. 22,839. Ezra Pollard, of Albany, N. Y., assignor to himself and Joshua Gray, of Westfield, Mass., for an "Improved meat cleaver."

"I do not claim a masticator for pounding meat, separately, for that, or its equivalent, has been used before; neither do I claim the cleaver, or axe, when taken separately; but I claim the meat masticator C, in combination with the cleaver D, substantially and for the purposes specified."

No. 22,840. Reuben Shaler, of Madison, Conn., assignor to Geo. W. Shaler, of New York, N. Y., for a "Fly trap."

"Having thus fully described my said invention, and the manner in which it is to be carried into operation, the particular improvement which constitutes it, and which I claim as having been originally and first invented by me, is, the combination of the stud E, and cover *g*, when arranged in connection with the chambers B and C, as described, for the purpose set forth."

No. 22,841. Saml. E. Tompkins and John Maclure, of Newark, N. J., assignors to Saml. E. Tompkins aforesaid, for an "Improvement in harness saddle-trees."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the tubular projection *a*, on the bow A, of the tree, substantially as shown, so as to form a case for the bolt D, and permit the securing of the wooden seat block to the tree, without injuring the same or allowing it to work loose, and at the same time securing the check rein hook C to the tree."

No. 22,842. Milton D. Whipple, of Charlestown, Mass., assignor to the Whipple File Company, for an "Improvement in machinery for cutting files."

"What I claim as my invention, and desire to secure by Letters Patent, is, the circular rolling cutter *f*, operating in the manner substantially as set forth. 2dly, I claim holding the face of the blank which is being cut up to a face plate or rest, by pressure upon its opposite sides, for the purpose specified. 3rd, I claim clamping the blank rigidly, while a cut is being made, and releasing it, preparatory to its being fed, as set forth. 4th, I claim the wedges *o*, operating as set forth, for the purpose of clamping the blanks, as described. 5th, I claim the shield *z*, against which the blank *q* rests, and which is fed up with the blank, in the manner and for the purpose substantially as set forth. 6th, I claim the within described machine for cutting files, consisting essentially of the combination of the elements above claimed, and operating in the manner substantially as set forth."

Re-issues.

Josiah Ells, of Pittsburgh, Pa., for an "Improvement in revolving fire arms." — Patented 25th April, 1854.—Re-issued 1st February, 1859.

"Claims.—1st, the combination of revolving breech and stationary barrel with a lock so constructed as that the trigger used to fire the pistol when drawn back raises the hammer to full cock and there holds it, the revolving breech being at the same time rotated so far as to bring one of the chambers in a direct line with the bore of the barrel and fastened in that position preparatory to firing the piece, substantially in the manner described. The peculiar arrangement of the parts of my lock herein-before described, whereby, as the trigger is drawn back to raise the hammer, the heel of the hammer on the point against which the main spring bears is brought so nearly under the center of motion of the hammer that the force of the main spring is counterbalanced by the pressure of the trigger on the toe of the hammer, and thus it will stand at full cock, or may be fired at once, as may be desired. The use of the tubular extension on the fore part of the rotating breech, extending beyond and underneath the breech end of the stationary barrel, through which tubular extension the end of the spindle projects, and into which the spindle fits closely, for the purpose of preventing the fowling of the spindle by the residuum of the smoke in firing. The use of a collar at the end of the tubular extension, for the purpose of forming, in combination with the spindle, a locking connection between the revolving breech and the stationary barrel, which is furnished with a corresponding recess for the reception of the collar, as herein-before set forth. Forming that part of the spindle which enters the bore of the rotating breech of smaller diameter at the front extremity than at the end nearest the lock, but by reducing its diameter suddenly so as to form a step or shoulder at one or more points within the rotating breech, in combination with the rotating breech having a bore of correspondingly diminished diameter, for the double purpose of sustaining the recoil of the breech in firing and of aiding to prevent the fowling of the spindle by presenting an obstruction to the passage of the smoke between the spindle and the surface of the bore of the rotating breech. Also, the connecting and locking the barrel and breech to the lock plate by means of a bracket and spring extending in front of the lock plate, in the manner described."

Thaddeus Hyatt, of New York, N. Y., for an "Improvement in vault lights."—Patented 19th September, 1854.—Re-issued 1st February, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, in the continuation of illuminating vault covers, is, the open frame with its large aperture or apertures closed with glass, substantially as herein described, in combination with the protection grating, substantially as and for the purpose described."

Geo. Thompson, of East Tarentum, Pa., for an "Improvement in devices for putting up caustic alkalies." — Patented 18th October, 1856.— Re-issued 1st February, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, the putting up of the caustic alkalies of soda and potassa in small quantities in air-tight wrappings, cases, or boxes, in the manner herein-before described, or its equivalent, for the purposes of introducing into general use for domestic and other purposes these articles which, owing to their peculiar chemical properties, have not heretofore been susceptible of general use in small quantities."

Design.

Apollos Richmond, of Brooklyn, N. Y., for a "Design for stoves."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is,—First, the form and pattern of the plates A, B, and E. Second, the beadings and escutcheons of the design shown. Third, the design of the molding H, the whole forming an ornamental stove, as herein described."

Additional Improvements.

James Crary, of Middleport, Ohio, for an "Improvement in shingle machines."—Patented 24th November, 1857.—Re-issue dated 28th September, 1858. — Additional improvement dated 1st February, 1859.

"Having thus described my improvements in my shingle machine, patented on the 24th November, 1857, what I claim as my invention, and desire to secure by Letters Patent, is, 1st, the use of the bridles or guides d^1, d^{11}, in combination with wrists a^1 of the shaving knives and the converging grooves and vertical slots, for the purpose of communicating to the shaving knives a combined drawing knife and approximating motion during the process of shaving the shingles, substantially as described. 2d, the use of the spring check plate E, in combination with the movable gate D, to permit one only at a time of the shingle bolts to pass to the shaving knives and prevent the bolt being drawn back on the retrocession of the feed board. 3rd, the use of a feed board composed of elastic bars or fingers, each capable of a slight depression at its extremity, so as to accommodate the surface of the feed board to any unevenness or twist in the shingle bolt."

CARLYLE WHIPPLE, of Cleveland, Ohio, for an "Improvement in reciprocating saws."—Dated 13th January, 1857.—Additional improvement dated 1st February, 1859.

"What I claim as my improvement, and desire to secure by Letters Patent, is, the adjustable ways D and E, and the friction wheels H and I, arranged and operating in the manner and for the purposes specified. I also claim the vibrating beams B and C, in combination with the ways D and E, and their dependent parts, constructed and operating in the manner and for the purposes set forth."

List of Specifications, &c. published during the week ending 18th February, 1859.

No.	Price.	Subject-Matter.
1556	3*d.*	Preparation of cocoa and chocolate, &c.
1557	3*d.*	Ventilation of sewers, &c.
1558	7*d.*	Drain pipes, &c.
1559	4*d.*	Ornamenting glass, &c.
1562	9*d.*	Fire engines, &c.
1563	7*d.*	Machinery for the manufacture of wire heddles.
1565	9*d.*	Apparatus for measuring gas.
1567	5*d.*	Manufacture of night lights.
1569	3*d.*	Manufacture of alloyed ingots.
1570	7*d.*	Ornamenting chandeliers, pendants, &c.
1572	3*d.*	Blind furniture.
1573	3*d.*	Supporting and carrying telegraph wires, ropes, and cables.
1574	6*d.*	Sugar cane mills.
1577	3*d.*	Pipe joint.
1578	10*d.*	Apparatus for the production of sparkling wines.
1579	6*d.*	Looms.
1580	6*d.*	Apparatus for warming air.
1581	6*d.*	Machinery for grinding bones, &c.
1582	3*d.*	Screw nail.
1583	3*d.*	Vacuum apparatus.
1584	7*d.*	Liquid meter.
1585	6*d.*	Distilling.
1586	3*d.*	Machinery for cutting turnips, &c.
1587	3*d.*	Machinery for submerging telegraphic cables.
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*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by BENNET WOODCROFT, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By SIMON STURTEVANT. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By JOHN ROVINSON. (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether NICHOLAS PAGE or Sir NICHOLAS HALSE was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. DUD DUDLEY'S Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638. Price 8*d.*
5. Description of the nature and working of the patent Water scoop Wheels invented by WILLIAM WHELER, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) EDWARD SOMERSET, Lord Marquis of WORCESTER, &c. &c. (*Stat.* 15 *Car. II c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By THOMAS SAVERY. (*Letters Patent, No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By THOMAS SAVERY. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will, III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By JOHN ALLEN, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By JONATHAN HULLS. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By SAMUEL SUTTON, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March* 1744.) Price 1*s.*

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Day of Month.	Day of Week.	Morning.	Evening.	Total.
Feb. 14	Monday -	133	606	739—Showery.
„ 15	Tuesday -	108	560	668—Wet.
„ 16	Wednesday	109	98	207—Fine.
„ 17	Thursday -	119	—	119— „
„ 18	Friday -	79	—	79— „
„ 19	Saturday -	196	—	196— „
	Total -	744	1264	2008

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2328. To EDMUND WALKER, of London Street, in the city of London, for the invention of "An improved filter."—A communication.
On his petition, recorded in the Office of the Commissioners on the 19th day of October, 1858.

2960. To JOHN DAVIES, of Liverpool, in the county of Lancaster, Provision Merchant, for the invention of "An improved portable self gas generating lamp."—A communication from James Lawrence Butler, resident at Brooklin, in the state of New York, one of the United States of America.
On his petition, recorded in the Office of the Commissioners on the 27th day of December, 1858.

123. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "A new or improved time-measurer."—A communication from Pasquale Perelli-Ercolini, of Prémeno, in the Sardinian States.
On his petition, recorded in the Office of the Commissioners on the 14th day of January, 1859.

158. To JOSHUA THORNTON, of Cleckheaton, in the county of York, Machine Maker, for the invention of "Improvements in carding engines."
On his petition, recorded in the Office of the Commissioners, on the 19th day of January, 1859.

175. To THOMAS GREENWOOD and JOHN BATLEY, of Leeds, in the county of York, Machine Makers, for the invention of "An improvement in the process of gassing textile fabrics."—A communication from H. Van den Berghe, residing at Rue de St. Georges, Courtrai, Belgium.
On their petition, recorded in the Office of the Commissioners on the 20th day of January, 1859.

314. To MARK SMITH, of the firm of William Smith and Brothers, of the Sun Foundry, Heywood, in the county of Lancaster, Machine Makers, for the invention of "Certain improvements in looms for weaving."

328. To JOHN HONEYMAN, of Glasgow, in the county of Lanark, North Britain, Miller, for the invention of "Improvements in the construction of ships, vessels, and boats, and in propellers for propelling the same."

330. And to WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in the means or apparatus for preserving grain, flour, eggs, and other vegetable and animal substances."—A communication from abroad by Louis Jacques Chateau, of Paris, Notary.
On their several petitions, recorded in the Office of the Commissioners on the 4th day of February, 1859.

339. To JAMES HOLROYD, of Leeds, in the county of York, Cloth Finisher, for the invention of "An improvement in apparatus used in finishing woollen and other cloths."

341. To WILLIAM HENRY CRISPIN, of Marsh Gate Lane, Stratford, in the county of Essex, Copper Smelter, for the invention of "An improved atmospheric and hydraulic engine for sailing and steam vessels."

343. To JOSEPH LEE, of 18, Monson Street, Lincoln, for the invention of "Improvements in the manufacture of cranks for steam engines and other purposes."

345. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Im-

provements in ovens."—A communication from Herr Von Langen, Royal Architect, of Berlin, in the kingdom of Prussia.

347. And to JOHN WILSON, of 55, John Street, Sunderland, for the invention of "Improvements in ventilating mines, and in combining apparatus used for such purpose."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of February, 1859.

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349. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in machinery or apparatus for sorting and numbering the threads or filaments of silk or other fibrous materials."—A communication from Fabius Mainardi, Merchant, of Lyons, in the empire of France.

351. To GEORGE THOMAS, of No. 47, Ham on Street, Paddington, in the county of Middlesex, Plasterer, for the invention of "A double-bottomed horse-shoe."

355. To JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, for the invention of "An improvement in the refining of sugar."

357. To ALEXANDER CLARK, of Gate Street, Lincoln's Inn, in the county of Middlesex, Engineer and Revolving Shutter Manufacturer, for the invention of "Improvements in revolving shutters and blinds, and in apparatus connected therewith."

359. And to THOMAS STOKES CRESSEY, of High Street, Homerton, in the county of Middlesex, for the invention of "Improvements in machinery used in the manufacture of casks."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of February, 1859.

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361. To EDWARD WILKINS, of No. 7, Addington Place, Camberwell Road, in the county of Surrey, Gentleman, for the invention of "Improvements in flower vases."

362. To JOHN STEPHEN JOSEPH, of Rhostyllan, near Wrexham, in the county of Denbigh, North Wales, for the invention of "Improvements in coke ovens, and in cooling and extinguishing coke."

363. To WILLIAM ARCHER, of Bolton, in the county of Lancaster, Jacquard Machine Maker, for the invention of "Certain improvements in Jacquard machines."

364. To HUMPHREY JEFFERIES, of Birmingham, in the county of Warwick, Button Maker, for the invention of "An improvement in castors."

365. To JOSEPH CROSSLEY, of Halifax, for the invention of "Improvements in the means employed when steaming printed yarns."

366. To JAMES TAYLOR, of Stalybridge, Machinist, and CHARLES WILD, of Oldham, Doubler, both in the county of Lancaster, for the invention of "Improvements in self-acting mules for spinning and doubling."

367. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in firearms."—A communication from William H. Bell, residing at the city and county of Washington, in the district of Columbia.

369. To JAMES EDWARD MCCONNELL, of Wolverton, in the county of Bucks, Civil Engineer, for the invention of "Improvements in steam boilers and in the generation and treatment of steam."

370. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved mode of bleaching and purifying, or refining sugar and vegetable juices or extracts."—A communication from abroad, by Emile Rousseau, of Paris, in the empire of France.

371. To EDWARD HERRING, of the Heath, Weybridge, in the county of Surrey, for the invention of "Improvements in the mashing and fermenting of grain for the production of alcohol."

372. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Certain improvements in breech-loading fire arms, and in cartridges to be used in such fire-arms."—A communication from abroad, by Gilbert Smith, of the state of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of February, 1859.

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373. To HENRY POTTER BURT, of Charlotte Row, Mansion House, in the city of London, for the invention of "Improvements in railway carriages and waggons."

374. To JOHN YOUNG, of Wolverhampton, in the county of Stafford, Manufacturer, for the invention of "An improvement or improvements in the construction of knobs, and the roses used for connecting knobs with doors, and with the cases of locks and latches, and other like fastenings."

375. To JOHN GEORGE TAYLOR, of Paris and of Glasgow, in the county of Lanark, Merchant, for the invention of "Improvements in writing materials, and the manufacture thereof."

377. To ROBERT JOSEPH ELLIS, of Liverpool, in the county of Lancaster, Merchant, for the invention of "Improvements in the apparatus for lifting sunken vessels and other submerged bodies."

379. To HECTOR INGER, of No. 3, Red Lion Square, Holborn, in the county of Middlesex, Commission Agent, for the invention of "The improvement of blinkers used by horses whilst drawing, to be called the 'Patent Safety Blinker.'"—A communication from Edward Souché, 1, Rue Charlot Auxternes, Paris, in the empire of France, Agent.

381. And to CRANLEY LANCELOT PERRY, of Sheepstead Farm, Marcham, in the county of Berks, for the invention of "An agricultural implement for paring and ploughing land."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of February, 1859.

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382. To MARTIN BILLING, of Birmingham, in the county of Warwick, Stationer, and WILLIAM KLOEN, of Aston, near Birmingham aforesaid,

Commercial Traveller, for the invention of "A method of, and apparatus for, decolourizing tea."

383. To JAMES EVANS, of Tarlton Street, Liverpool, in the county of Lancaster, Coach Builder, for the invention of "An improvement in 'hansom' cabs."

384. To JAMES PARKINSON, of Manchester, in the county of Lancaster, Dentist, for the invention of "A certain improvement in coffins."

385. To NICHOLAS BENNETT, of No. 4, Furnival's Inn, in the city of London, Gentleman, for the invention of "Improvements in the construction of brooms or brushes for sweeping or cleansing streets, roads, and thoroughfares, also applicable to domestic purposes."

387. To GEORGE HYDE, of No. 61, Fleet Street, in the city of London, Stationer and Manufacturer, for the invention of "A pen for producing a copy or copies of a letter or other writing simultaneously with the production of the original."

388. To ROBERT COGAN, of Red Lion Square, in the county of Middlesex, Glass Dealer, for the invention of "Improved instruments for crushing and mixing solid and liquid substances."

389. To HENRY ALBERT BARTLETT, of Thetford, in the county of Suffolk, for the invention of "Improvements in machinery to be used with or without the plough for clearing and cleaning land from weeds."

390. To CHARLES JACKSON, of Store Street, Bedford Square, in the county of Middlesex, Pianoforte Manufacturer, for the invention of "Improvements in the action of pianofortes."

391. To JAMES GRIMES, of No. 6, Osborn Street, Whitechapel, Pewterer and Beer Engine Manufacturer, for the invention of "Improvements in beer engines."

392. And to HENRY RANSFORD, of West Brompton, in the county of Middlesex, for the invention of "An improvement in building ships and other vessels."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of February, 1859.

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393. To GAYLARD HADWEN, of Audenshaw, in the county of Lancaster, and JOHN WADSWORTH, of Droylsden, in the said county, for the invention of "Improvements in Jacquard apparatus, applicable to power looms."

394. To HENRY LEA, of Birmingham, in the county of Warwick, Engineer, for the invention of "Improvements in changing or reversing motion."

395. To THOMAS WILLIS and GEORGE CHELL, both of Longsight, near the city of Manchester, Machine Makers, for the invention of "Improvements in machinery for spinning, twisting, doubling, and winding yarns and threads."

397. To JAMES CRABTREE, of Market Street, Bradford, in the county of York, Commission Agent, for the invention of "Improvements in the manufacture of bobbins and spools."

398. To SAMUEL HAZARD HUNTLY, of Upper Baker Street, in the county of Middlesex, for the invention of "Improvements in cooking apparatus."

399. To THOMAS WHITE, of Portsmouth, in the county of Southampton, Shipbuilder, and GEORGE JENKINS, of the same place, Engineer, for the invention of "Improvements in apparatus for raising and lowering slips along inclined slips."

400. To JAMES BENNETT and JOHN BENNETT, of the firm of Bennett and Sons, of Kingsland Road, in the county of Middlesex, Engineers, for the invention of "An improvement in refrigerators for cooling beer and worts."

401. To GEORGE BETJEMANN, GEORGE WILLIAM BETJEMANN, and JOHN BETJEMANN, all of Upper Ashby Street, in the county of Middlesex, Desk and Dressing-case Makers, for the invention of "Improvements in book slides."

402. To WILLIAM GEORGE RAWBONE, of Gloucester Street, in the county of Middlesex, Gun Maker, for the invention of "Improvements in fire-arms and ordnance."

403. To GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in revivifying the scarlet color of woollen cloth lace and embroidery, in use for military and other garments and furniture."—A communication from abroad by Messrs. Andrès, Burdell, and Chicard, of Paris.

404. To HENRY GARDNER, of No. 1, Old Quebec Street, Portman Square, in the county of Middlesex, for the invention of "Improvements in machinery for breaking and preparing flax and other fibres."

405. To ROBERT BELL, of Paris, in the empire of France, and of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for the invention of "Improvements in separating and recovering wool from fabrics composed of wool, or wool in connection with cotton and other vegetable substances."

406. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in breech-loading fire-arms."—A communication from abroad, by James H. Merrill, of the United States of America.

407. And to WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in sewing machines."—A communication from abroad by James Stebbings Moody, of the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 12th day of February, 1859.

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408. To JAMES PARKINSON, of Manchester, in the county of Lancaster, Dentist, for the invention of "Certain improvements in coffins."

409. To THOMAS HUNT, of Crewe, in the county of Chester, Engineer, for the invention of "Improvements in steam boilers or generators, and in the prevention or combustion of smoke."

410. To CHARLES SANDERS, Photographic Mat Manufacturer, of Harford Street, Birmingham, in the county of Warwick, for the invention of "Certain improvements in ornamenting English passepartouts for photographic pictures, also the glasses used with the same, and which said modes of ornamenting are also applicable to ornamenting photographic frames generally."

411, To JOHN WRIGHT, of New George Street, Sheffield, in the county of York, Spring Manufacturer, for the invention of "Improvements in reducing and rolling steel and iron wire, and other forms of those metals in long lengths."

412. To JOSIAH LATIMER CLARK, of Haverstock Hill, in the county of Middlesex, for the invention of "Improvements in the means of working railway signals and switches."

413. To JAMES COPCUTT, of 26, Kirby Street, Hatton Garden, in the county of Middlesex, for the invention of "Improvements in obtaining light from gases."

414. To ROBERT CLEGG, of Islington, in the county of Middlesex, FREDERICK ANGERSTEIN, of Kennington, in the county of Surrey, and JOHN WILLIAM PAGE, of Walworth Road, in the county of Surrey, for the invention of "Improvements in making soap."

415. And to ALFRED BUTTON CLARKE, of Edward Street, Blackfriars Road, in the county of Surrey, for the invention of "Improvements in discharging sewage and water from lands into tidal rivers, and in flooding lands therefrom, also conveying sewage and other waters or liquids across canals and over structures, part of such said improvements being applicable as a substitute for sluice cocks and valves."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of February, 1859.

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416. To EDWARD HENRY ALDRICH, of Shoreditch, in the county of Middlesex, for the invention of "Improvements in ladies' dress caps."

418. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in the manufacture of steel iron and cast steel."

420. To WALTER RAYMOND, of No. 4, Albion Square, Dalston, in the county of Middlesex, Master Mariner, for the invention of "An improved life-raft."

422. And to JOHN THOMAS JONES, of Glasgow, in the county of Lanark, North Britain, Machinist, for the invention of "Improvements in sewing machines."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of February, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

483. WILLIAM STETTINIUS CLARK, of No. 76, Cannon Street West, in the city of London, and of 35, Boulevard Bonne Nouvelle, Paris, in the empire of France, praying for Letters Patent for the invention of "Improvements in the formation of cast iron rails for city railways, and also in the method of uniting the ends of two adjacent rails for railway use,"—a communication from Sidney A. Beers, Civil Engineer, now residing at Brooklyn New York,—was deposited and recorded in the Office of the Commissioners on the 22nd day of February, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

25th February, 1859.

1942. WILLIAM ESSON, of Cheltenham, in the county of Gloucester, Engineer, for an invention of "Improvements in wet gas meters."—Dated 27th August, 1858.

1948. JOHN FOWLER, junr., of Cornhill, in the city of London, and ROBERT BURTON, of Kingsland Road, in the county of Middlesex, for an invention of "Improvements in the construction and arrangement of locomotive and other carriages to facilitate their movement on common roads and other surfaces."—Dated 27th August, 1858.

1949. RICHARD KNIGHT, of Foster Lane, in the city of London, for an invention of "Improvements in apparatus for ærating liquids."—Dated 27th August, 1858.

1955. GEORGE WEEDON, of No. 41, Poland Street, in the county of Middlesex, and DAVID WILLIAM RICE, of No. 1, New Road, Woolwich, in the county of Kent, for an invention of "An improved knife and fork cleaning machine, part of which is applicable to other purposes."—Dated 28th August, 1858.

1959. JOHN BRAZIL, of Manchester, in the county of Lancaster, Calico Printer, and JOSEPH MCKINNELL, of the same place, Calico Printer, for an invention of "An improved method of indigo blue dyeing."—A communication from a Person residing abroad.—Dated 30th August, 1858.

1960. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "Improvements in billiard tables and cues."—A communication from certain Foreigners residing abroad.—Dated 30th August, 1858.

1961. JOHN BRAZIL, of Manchester, in the county of Lancaster, Calico Printer, and JOSEPH MCKINNELL, of the same place, Calico Printer, for an invention of "An improved method of indigo blue dyeing."—Dated 30th August, 1858.

1963. JOHN OXLEY, of Camden Town, for an invention of "Improvements in baths."—Dated 30th August, 1858.

1964. GRIFFITH JONES, of Bangor Wharf, Pimlico, in the county of Middlesex, Slate Merchant, for an invention of "Securing joints in slate ridge roll."—Dated 30th August, 1858.

1965. JOSIAH LATIMER CLARK, of Adelaide Road, in the county of Middlesex, Civil Engineer, FREDERICK BRAITHWAITE, of Bridge Street, in the city of Westminster, Civil Engineer, and

George Edward Preece, of Bernard Street, in the county of Middlesex, Electrician, for an invention of "Improvements in telegraph cables."—Dated 30th August, 1858.

1966. Edward Lindner, of New York, in the United States of America, Engineer, for an invention of "Improvements in breech loading fire arms and ordnance and in cartridges."—Dated 30th August, 1858.

1970. Edward Spary, of Queen's Graperies, Park Street, Brighton, in the county of Sussex, Nurseryman and Florist, for an invention of "Improvements in fumigators."—Dated 31st August, 1858.

1976. Daniel Heyworth, Manager, Featherstall Mill, Littleborough, in the county of Lancaster, and John Heyworth, Manager, Prospect Mill, Hebden Bridge, in the West Riding of Yorkshire, for an invention of "Certain improvements in looms for weaving."—Dated 31st August, 1858.

1981. Philip Davies Margesson, of Woolwich, in the county of Kent, Captain, Royal Artillery, for an invention of "Improvements in treating sugar canes, and other canes containing saccharine matter in the preparation of food for animals, also in manufacturing sugar and worts or wash for brewing, distilling, and vinegar making, and in applying the resulting fibre in the manufacture of paper."—Dated 31st August, 1858.

1992. Joseph Walker and James Barnes, of Oakenshaw, in the county of Lancaster, Waterproof Cloth Manufacturers, for an invention of "Improvements in blankets and lappings for machine and block printing and other similar purposes."—Dated 2nd September, 1858.

1998. James Robertson, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in driving-belts and springs."—Dated 3rd September, 1858.

2008. David Andrew, of Greenock, in the county of Renfrew, North Britain, Engineer, for an invention of "Improvements in apparatus for obtaining motive power."—Dated 4th September, 1858.

2018. James Shanks, of St. Helen's, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in the manure of chlorine."—Dated 7th September, 1858.

2032. William Parsons, of Pratt Street, Lambeth, Manufacturing Engineer, for an invention of "Improvements in apparatus to be applied to steam boilers in order to keep the surfaces of the tubular flues free from incrustation."—Dated 8th September, 1858.

2034. William Parsons, of Pratt Street, Lambeth, Manufacturing Engineer, for an invention of "Improvements in safety valves of steam boilers."—Dated 8th September, 1858.

2040. William Prisley, residing at No. 7, Townley Place, Brandon Street, Walworth, in the Parish of Newington, in the county of Surrey, for an invention of "Advertising by day or night."—Dated 9th September, 1858.

2045. Thomas Timms, of 1, Skelton Street, Greenwich, in the county of Kent, Coachman, for an invention of "Improvements in bits."—Dated 9th September, 1858.

2086. Robert Lakin, of Ardwick, in the county of Lancaster, Machinist, and John Wain, of the city of Manchester, in the said county, Mechanic, for an invention of "Improvements in spinning mules, and other machines of that class used for spinning cotton, and other fibrous substances."—Dated 14th September, 1858.

2107. John Gay Newton Alleyne, of Butterley Iron Works, Alfreton, in the county of Derby, for an invention of "Improvements in the manufacture of wrought iron beams and girders."—Dated 18th September, 1858.

2122. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved machine for sweeping carpets and floors."—Dated 21st September, 1858.

2154. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "The separation of iron and steel from their combination with certain foreign bodies."—A communication from a Foreigner residing at Charleroi, in Belgium.—Dated 25th September, 1858.

2519. John Buchanan, of Greenock, in the county of Renfrew, North Britain, Gentleman, for an invention of "Improvements in propelling vessels, ships, and boats."—Dated 10th November, 1858.

2537. John Buchanan, of Greenock, in the county of Renfrew, North Britain, Gentleman, for an invention of "Improvements in propelling vessels, ships, and boats."—Dated 11th November, 1858.

2580. Stanislas Hoga, of No. 14, Nassau Street, Middlesex Hospital, William Peter Piggott, of No. 16, Argyll Street, Regent St., and Septimus Beardmore, of No. 37, Upper Berkeley Street West, for an invention of "Improvements in electric telegraphs."—Dated 17th November, 1858.

2848. William Edward Wiley, Pen and Pencil Manufacturer, of 34, Great Hampton Street, Birmingham, for an invention of "Improvements in ever pointed pencils."—Dated 11th December, 1858.

2896. James Kerr, of 17, Bedford Terrace, Trinity Square, Southwark, in the county of Surrey, Engineer, for an invention of "Improvements in the construction of revolving fire arms."—Dated 17th December, 1858.

2936. John Whitelaw, of Dunfermline, in the county of Fife, North Britain, Ironfounder, for an invention of "Improvements in sewerage and drainage apparatus."—Dated 23rd December, 1858.

2950. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the permanent way of railways."—A communication from Christian E. Detmold, resident at the city of New York, United States of America."—Dated 24th December, 1858.

2969. James Leck, of Glasgow, in the county of Lanark, North Britain, Bleacher, for an invention of "Improvements in drying textile fabrics and materials."—Dated 28th December, 1858.

2998. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of

166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the permanent way of railways."—A communication from a Foreigner residing abroad.—Dated 31st December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 23rd February*, 1859, *inclusive.*)

21st February.

466. Thomas Goode Messenger, of Loughborough, in the county of Leicester, Plumber, for an invention of "Improvements in boilers."—Dated 23rd February, 1856.

469. James Warburton, of Addingham, near Otley, in the county of York, for an invention of "Improvements in machinery for combing wool, cotton, and other fibres."—Dated 23rd February, 1856.

529. Henry Andrew Dewar, of the city and county of Aberdeen, North Britain, Surgeon Dentist, for an invention of "Improvements in conveying or transmitting motion for effecting mechanical operations."—Dated 1st March, 1856.

22nd February.

467. Robert Baker Jones, of Limerick, Gentleman, for an invention of "Improvements in cooking-apparatus."—Dated 23rd February, 1856.

470. Henry Loveridge, of Wolverhampton, for an invention of "An improvement in feet, hip, and slipper baths, also in bases for shower baths, and basins for washing and other purposes."—Dated 23rd February, 1856.

23rd February.

460. Edward Schischkar, of Halifax, in the county of York, Manufacturer, for an invention of "Improvements in cleansing silk, hair, wool, yarn and textile fabrics."—Dated 23rd February, 1856.

497. George Tomlinson Bousfield, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey, for an invention of "Improvements in power-looms."—A communication.—Dated 26th February, 1856.

505. Thomas Taylorson Jopling, of Bishop's Wearmouth, in the county of Durham, Iron Founder, for an invention of "An improved construction of water meter."—Dated 27th February, 1856.

509. Isaac Westhorp, of the city of London, for an invention of "Improvements in concentrating milk, and in obtaining concentrated extracts from tea, coffee, and chocolate."—A communication from Gail Borden, a citizen of the United States of America.—Dated 28th February, 1856.

730. Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris, for an invention of "Certain improvements in watches and other time-keepers."—A communication from Jacob Muma, of Hanover, United States.—Dated 27th March, 1856.

893. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery, for felting hat bodies."—A communication from James Seely Taylor, of Danbury, in the state of Connecticut, United States of America.—Dated 14th April, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 30th December, 1858.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 528 of this Journal.)

1. C. Arnoux, represented by H. Goupy de Quabeck, of Schaerbeek, for an imported invention of "A break that may be applied to one or several railway carriages."—Dated 22nd October, 1858.—(French Patent, 30th June, 1858.)

2. J. Gombeau and J. Royer, represented by H. Biebuyck, of Brussels, a Patent of Improvement for his "Barley mill for breweries."—Dated 6th December, 1858.—(Original Patent, 20th July, 1858.)

3. G. Olivier Drion, of Herstal, for "Improvements in Lefaucheux' guns."—Dated 6th December, 1858.

4. Ed. Hunt and D. Pochin, represented by A. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in treating and applying resin and resinous substances."—Dated 7th December, 1858.—(English Patent, 27th April, 1858.)

5. L. de Naeyer, of Brussels, for "Manufacture of waterproof white oil and black varnish."—Dated 7th December, 1858.

6. P. J. Spanoghe, of Brussels, for "An instrument for taking measures for all kinds of dresses."—Dated 8th December, 1858.

7. Neuvy Brethon, represented by X. Raclot, of Brussels, for an imported invention of "A machine for compressing bricks, quarries, and other products."—Dated 8th December, 1858.—(French Patent, 11th September, 1858.)

8. F. Knickenberg, of Brussels, for "A system of towing boats on canals and rivers by means of fixed steam engines."—Dated 8th December, 1858.

9. J. H. Lacroix and C. B. Coulon, of Brussels, for "A moveable diaphragm apparatus for closing cocks."—Dated 8th December, 1858.

10. A. Marsh, represented by O. Daillencourt, of Brussels, for an imported invention of "Improve-

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

ments in gas retorts for extracting gas, oil, and other substances."—Dated 8th December, 1858.—(American Patent, 10th August, 1858.)

11. H. A. Hart, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in apparatus for regulating the pressure of gas."—Dated 8th December, 1858.—(English Patent, 29th January, 1858.)

12. H. Monier, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in gas burners."—Dated 8th December, 1858.—(French Patent, 21st December, 1857.)

13. J. S. Bailey and W. H. Bailey, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in machines for combing wool and other fibrous substances."—Dated 8th December, 1858.—(English Patent, 12th May, 1858.)

14. A. Callès, of Ixelles, a Patent of Improvement for "Modifications in his heating and ventilating apparatus."—Dated 9th November, 1858.—(Original Patent, 10th March, 1857.)

15. J. Bethell, represented by J. Sainthill, of Brussels, for an imported invention of "Improvements in apparatus for preserving timber."—Dated 9th December, 1858.—(French Patent, 4th December, 1858.)

16. J. B. Wanty, of Dour, for "A safety break applicable to extraction engines."—Dated 6th December, 1858.

17. N. F. Corbin-Desboissières, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of fireplaces with a mixed and atmospheric combustion."—Dated 9th December, 1858.—(French Patent, 27th November, 1858.)

18. A. Koechlin and Co., represented by H. Biebuyck, of Brussels, for an imported invention of "A locomotive with combined joints and couplings for ascending great gradients."—Dated 9th December, 1858.—(French Patent, 27th January, 1858.)

19. A. A. Drayson and C. R. Binney, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in subterraneous and submarine telegraphic cables."—Dated 9th December, 1858.—(English Patent, 18th October, 1858.)

20. C. J. Thévenot, represented by H. Biebuyck, of Brussels, for an imported invention of "A toy, called 'magical carnival.'"—Dated 9th December, 1858.—(French Patent, 25th September, 1858.)

21. W. Warne, A. Jaques, and J. A. Fanshawe, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of an improved tissue for covering floors, walls, and other objects."—Dated 9th December, 1858.—(English Patent, 28th November, 1858.)

22. J. L. Gaudebert, of Brussels, for an imported invention of "A mode of manufacturing foot coverings with invisible seams."—Dated 10th December, 1858.—(French Patent, 11th November, 1858.)

23. A. and G. Mineur, of Prayon, for "A composition of iron and steel for damaskeened fire-arms."—Dated 9th December, 1858.

24. C. J. Carr, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in forge hammers and other hammers."—Dated 11th December, 1858.—(English Patent, 7th May, 1858.)

25. E. A. Lester, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in the construction of wheels of railway carriages."—Dated 11th December, 1858.—(French Patent, 19th November, 1858.)

26. R. Wappenstein, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Manufacture of artificial whalebone."—Dated 11th December, 1858.—(English Patent, 8th June, 1858.)

27. A. P. Price, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Modifications in his treatment of zinc."—Dated 13th December, 1858.—(Original Patent, 27th October, 1858.)

28. S. Lees and J. Jaques, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the means of obtaining steam and saving fuel."—Dated 13th December, 1858.—(English Patent, 3rd July, 1858.)

29. H. Meidinger, represented by H. Biebuyck, of Brussels, for an imported invention of "An absolutely steady electric battery."—Dated 13th December, 1858.—(French Patent, 22nd November, 1858.)

30. Eug. Desroques, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A system of protecting windows from draughts and infiltration of water."—Dated 13th December, 1858.—(French Patent, 7th June, 1858.)

31. W. Olivier and P. B. A. F. Kretschmer-Nostheer, of Schaerbeek, for "Improvements in the construction of kilns for baking porcelain and other ceramic products."—Dated 13th December, 1858.

32. J. Casse, of Tournai, for "Improvements in applying English rectilinear looms to weaving ribbed hosiery articles."—Dated 14th December, 1858.

33. F. Bertinchamps, of Monceau-sur-Sambre, for "A system of iron stop-planks, applicable to constructions and frame-work."—Dated 14th December, 1858.

34. J. Kersten, of Antwerp, for "A system of mounting and unmounting shafts of carriages."—Dated 13th December, 1858.

35. J. E. Spanoghe and H. L. Pauw, of Antwerp, for "An expeditious and inodorous mode of emptying cesspools."—Dated 10th December, 1858.

36. J. Mallieux and H. Schmidt, of Liége, for "A process for fire-gilding."—Dated 13th December, 1858.

37. P. J. Lejeune Chaumont, of Liége, a Patent of Improvement for "Modifications in his projectiles for all kinds of fire-arms."—Dated 13th December, 1858.—(Original Patent, 10th June, 1858.)

38. F. L. P. Monier, represented by O. Dardenne, of Liége, for "An hydraulic apparatus, called 'universal motor.'"—Dated 13th December, 1858.

39. F. L. P. Monier, represented by O. Dardenne, of Liége, for "Pumps without pistons."—Dated 13th December, 1858.

40. H. Henroz, of Floreffe, for "Improvements in glass furnaces."—Dated 13th December, 1858.

41. L. Mairesse, of Hornu, for "Moveable scaffoldings for shafts of mines."—Dated 15th December, 1858.

42. Ed. Empis and Co., represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for wringing all kinds of thread."—Dated 13th December, 1858. — (French Patent, 23rd August, 1858.)

43. L. Schwartzkopff and F. Philippson, represented by D. Herode, of Schaerbeek, for an imported invention of "A machine for boring rocks, stone, &c."—Dated 16th December, 1858. —(French Patent, 15th November, 1858.)

44. H. J. Rogers, represented by A. Matton, of Brussels, for an imported invention of "Improvements in the manufacture of electric telegraph cables."—Dated 16th December, 1858.—(French Patent, 6th December, 1858.)

45. P. A. Viette, of St. Josse-ten-Noode, for "Manufacture of inks for engraving and lithographing."—Dated 16th December, 1858.

46. P. Gaillard, represented by Planche and Dubois, of Brussels, for an imported invention of "A simplified pantograph."—Dated 16th December, 1858. — (French Patent, 23rd August, 1858.)

47. T. A. M. Sortais, represented by H. Biebuyck, of Brussels, for an imported invention of "A self-acting mode of conveying telegraphic messages." —Dated 16th December, 1858.—(French Patent, 11th December, 1858.)

48. A. and L. Fontaine, represented by H. Biebuyck, of Brussels, for an imported invention of "A mode of cutting gloves."—Dated 16th December, 1858. — (French Patent, 1st December, 1858.

49. M. A. Méresse, of Brussels, for "A process for reproducing sketches of paintings and ornamental objects."—Dated 18th December, 1858.

50. G. E. Chenoweth, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in harvesting machines."—Dated 16th December, 1858.—(American Patent, 30th March, 1858.)

51. P. Griffiths, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in the manufacture of bushes for fixing drums, pulleys, and fly-wheels on shafts."—Dated 16th December, 1858. — (English Patent, 25th May, 1858.)

52. E. W. Stephens, junr., and R. Jenkins, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in rails of railways."—Dated 17th December, 1858.—(French Patent, 8th December, 1858.)

Operations and Condition of the United States Patent Office.

United States Patent Office,
January 31, 1859.

Sir,—I have the honor to submit the following Tables, as illustrating the operations and condition of this office for the year closing the 31st December, 1858:—

No. 1.

Number of applications for Patents during the year 1858	5,364
Number of Patents granted (including designs, re-issues, and additional improvements)	3,710
Number of caveats filed	943
Number of applications for extensions of Patents	24
Number of Patents extended	20
Number of Patents expired 31st December, 1858	563

Of the Patents granted there were—

To citizens of the United States	3,668
To subjects of Great Britain	20
To subjects of the French empire	14
To subjects of other foreign governments	8
Total	3,710

The Patents issued to citizens of the United States were distributed among the several States, Territories, &c., as follows:—

New York	1,075	Mississippi	31
Pennsylvania	447	Kentucky	30
Massachusetts	438	Alabama	24
Ohio	302	California	23
Connecticut	211	North Carolina	22
Illinois	155	Georgia	21
New Jersey	126	Tennessee	19
Maryland	82	South Carolina	12
Indiana	82	Texas	10
Virginia	61	Delaware	8
Maine	58	Florida	4
Michigan	54	Washington Territory	4
Wisconsin	54	Arkansas	3
District of Columbia	52	Minnesota	2
New Hampshire	51	Kansas Territory	1
Rhode Island	48	U. S. Navy	2
Missoura	46	U. S. Army	1
Vermont	42		
Louisiana	34	Total	3,668
Iowa	33		

Of the 3,710 Patents thus issued, 561 were for inventions relating to agricultural implements and processes, of which 152 were for improvements in reaping and mowing machines; 42 were for improvements in cotton gins and presses and in packing cotton; 164 for improvements in the steam engine; 198 for improvements in railroads, railroad cars, &c.;

and 116 for improvements in the sewing machine. Since the issue of the first Patent for the latter to J. J. Greenough, in 1842, two hundred and eighty-five Patents have been granted for improvements upon it. This machine, so wonderful alike for the delicacy and accuracy, as for the simplicity of its operations, may now be regarded as rapidly approaching perfection, and is destined to bless all lands with its truly beneficent ministrations. In form so cheap as to be within the reach of the humblest household, it now enables a single female to perform within the accustomed hours of labour, with slight fatigue, an amount of sewing which would be a painful task for twenty-five operatives stitching with the hand and needle. The belief is confidently entertained that, at no distant day, it will become almost as universal as were the distaff and spinning-wheel of the olden time; but, unlike these memorials of ceaseless toil, it will enter the homes of impoverished and suffering humanity to lighten the burdens and brighten the lives of those whose elevation and happiness have been the unceasing care, as they are now the crowning glory, of the Christian civilization of the world.

No. 2.

Statement of Moneys received at the Patent Office during the year 1858.

Received on applications for patents, re-issues, additional improvements, extensions, caveats, disclaimers, and appeals	188,087 00
Received for copies and for recording assignments	15,629 16
Total	$203,716 16

No. 3.

Statement of Expenditures from the Patent Fund during the year 1858.

For salaries	$82,073 41
„ temporary clerks	42,355 03
„ contingent expenses	37,803 90
„ payment to judges in appeal cases	200 00
„ refunding money paid into the treasury by mistake	374 75
„ refunding money on withdrawals	30,386 65
Total	$193,193 74

No. 4.

Statement of the Condition of the Patent Fund.

Amount to the credit of the Patent Fund, 1st January, 1858	$39,719 46
Amount paid in during the year	203,716 16
Total	$243,435 62
Deduct amount of expenditures during the year	193,193 74
Leaving in the treasury 1st Jan., 1859	50,241 88

No. 5.

Table exhibiting the Business of the Office for seventeen years, ending 31st December, 1858.

Years.	Applications filed.	Caveats filed.	Patents issued.	Cash received.	Cash expended.
1842	761	291	517	$ 36,565 68	$ 31,241 48
1843	819	315	531	35,315 81	30,776 96
1844	1,045	380	502	42,509 26	36,344 73
1845	1,246	452	502	51,076 14	39,395 65
1846	1,272	448	619	50,264 16	46,158 71
1847	1,531	533	572	63,111 19	41,878 35
1848	1,628	607	660	67,576 69	58,905 84
1849	1,955	595	1,070	80,752 78	77,716 44
1850	2,193	602	995	86,927 05	80,100 95
1851	2,258	760	869	95,738 61	86,916 93
1852	2,639	996	1,020	112,056 34	95,916 91
1853	2,673	901	958	121,527 45	132,869 83
1854	3,324	868	1,902	163,789 84	167,146 32
1855	4,435	906	2,024	216,459 35	179,540 33
1856	4,960	1,024	2,502	192,588 02	199,931 02
1857	4,771	1,010	2,910	196,132 01	211,582 09
1858	5,364	943	3,710	203,716 16	193,193 74

It will be observed that the depression under which the business of the office was labouring at the date of the last annual report has passed away, and that the rebound from the disastrous effects of the revulsion of 1857, then so confidently predicted, has already been fully realized. The applications of 1858 amount to 5,364, against 4,771 in 1857, and 4,960 in 1856, while the receipts show an excess over the expenditures of $10,522 42, against a deficit of $15,450 08 in 1857.

From the most reliable sources of information to which access could be had, the subjoined Table has been compiled, with a view of exhibiting the comparative progress of inventions for a single year in the several countries therein enumerated:—

Country.	Patents Granted in 12 months.	Population.
France	5,820	35,781,628
United States	3,710	23,191,918
Great Britain (sealed)	1,890	27,511,447
Belgium	1,406	4,426,202
Austria	703	36,514,466
Sardinia	171	4,368,972
Saxony	107	1,828,732
Sweden	64	3,482,541
Victoria (Australia)	53	410,766
Prussia	49	16,923,721
Bavaria	41	4,519,546
Netherlands	39	3,203,232
Russia	26	69,660,146
Hanover	20	349,958

It is a fact as significant as it is deplorable, that of the 10,359 inventions shown to have been made abroad during the last twelve months, but forty-two have been patented in the United States. The exorbitant fees exacted of the foreigner, and the severity of the offensive discrimination established to his prejudice, afford a sufficient explanation of this result. Were we to judge alone from the 9th section of the Act of 1836, it might well be concluded that the government of this country regarded an invention made beyond the seas as something intrinsically dangerous, if not noxious, the introduction of which it is morally just and politically wise to burden with taxation, just as you would thus burden the importation of some foreign poisonous drug. There is a loftier view of this question, and one deemed more in harmony with the progressive spirit of the age—a

view which hails the fruits of the inventive genius, in whatever clime matured, as the common property of the world, and gives them cordial welcome as the common blessings of the race to whose amelioration they are devoted.

Since the month of November, 1857, a board, temporarily organized, and consisting of three examiners, specially detailed for this duty, have been occupied in the examination of appeals from the decisions of the primary examiners to the Commissioner. During the past year they investigated and disposed of 535 cases, in most of which they have submitted elaborately prepared reports. The results of their action have been eminently satisfactory, and have commanded, it is believed, the entire confidence of the country. The withdrawal of these officers from their respective classes has practically reduced the examining corps to nine instead of twelve, the number at which it was fixed in 1856. The applications of that year amounted to 4,960, those of 1858 amounted to 5,364; so that, with a reduced force, there is a heavy increase of the labor to be performed. This is unfortunate, and to be deplored, in reference alike to the public and the inventor. The former has a deep interest in that thorough and faithful examination of applications contemplated by the Patent Laws, in order that rights which belong to all may not be unjustly monopolized by one; the latter has the same interest, lest a Patent, hastily and incautiously granted, should prove in his hands but a lure to draw him into harassing and impoverishing litigation. The legalization of this board, and the restoration of examiners to the three classes now virtually deprived of them, would furnish at once the relief required.

Since the establishment of this temporary board of appeals, the classes from which its members were respectively withdrawn have been in charge of those who have the rank and pay of assistant examiners only. In the new position, however, assigned them, they have had imposed upon them the responsibilities of examiners in chief; and it is due to them to say that they have discharged their duties with zeal and fidelity. In my judgment, it is but just that they should be compensated according to the character of the services they have rendered. Assistant examiners similarly circumstanced were provided for by Congress in 1856, and I commend the claims of those now referred to to your favourable consideration.

There are now on file in this office upwards of twenty thousand models belonging to rejected cases. For a series of years they have, for want of sufficient room, been kept in a condition little favourable to their preservation or usefulness. They present a chaotic and partially dilapidated mass of mechanical devices, of no value as compared with the space they will occupy, and the expense their repair, arrangement, and preservation will involve. The fact that they are illustrations of inventions which have been determined to be not patentable, generally for want of novelty, is proof conclusive that they are, in effect, but duplicates of illustrations previously existing, and a large portion of which are already preserved by the office in patented cases. There would seem, therefore, to be no adequate motive for permitting them longer to encumber the building. The west wing of the Patent Office, to which, if retained, they must be transferred, is approaching completion; and the present moment—before the heavy expense incident to their restoration and custody is incurred—is deemed appropriate for deciding the final disposition which shall be made of them.

The defects in the existing Patent Laws have again and again been pointed out in the Annual Reports of this office, and are believed to be thoroughly understood and appreciated by the country. The subject has been so often and so earnestly pressed upon the consideration of Congress, that I cannot regard it as my duty, if indeed it would be my privilege, to renew the discussion at this moment. I cannot, however, forbear expressing again with emphasis my conviction as to the necessity of a change in that feature of the existing law which withholds from parties to controversies pending in this office the process of subpœna for compelling the attendance of witnesses, and the production of papers. Every judicial tribunal in the land, from the highest to the lowest, no matter how paltry the amount in contest, is armed with this authority; without which, indeed, the administration of public justice would prove but little better than a mockery. With the issues of fact to be tried here are often bound up the entire fortunes of inventors, and the interests they involve are to be estimated by thousands and hundreds of thousands of dollars. Under the pressure of legislation, the parties to these issues are driven into this office, and compelled to have them investigated and decided here, while at the same time they are denied the only instrumentality by which their rights can be vindicated and maintained. They are thus forced to beg their testimony as an alms, or buy it as they would their provisions upon the shambles of the market. They are completely at the mercy of those witnesses who sell the truth, and are, of course, often subjected to the most onerous and not unfrequently to the most infamous exactions. It is a gross and monstrous injustice, which admits of no defence, of no palliation, and which cannot fail to shock the moral sense of all who, in the heady current of political life, can be induced to pause long enough to contemplate its revolting features. It may well be doubted whether an evil of such deformity, and unredeemed at it is by any pretence of right or reason, would, if exposed as this has been, under any other form of government upon the earth, have been permitted to endure for a single day.

In view of the frequency with which the proposed changes in the Patent Laws have been urged upon the notice of Congress, it has been with extreme diffidence that I have ventured even a passing allusion to the subject. A just estimate of the magnitude of the issues of which this office has charge, and a conviction of the vastly increased efficiency which these changes would secure to its administration, must be my apology. A class of men who have given to their native land and to the world the cotton gin, the steam engine, the electric telegraph, the reaper, the planing and the sewing machines—inventions whose beneficent influences tell with measureless power upon every pulsation of our domestic, social, and commercial life—may well be pardoned for believing that their wants should not be treated with entire indifference by that body, which represents alike the intellect and heart, as it does the material interests of the great country of which they are citizens.

J. Holt.

Erratum in Journal of 22nd February.

After 2327, for "2359" read "2329."

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

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Notices to Proceed.

NOTICE is hereby given that

2328. EDMUND WALKER, of London Street, in the city of London, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improved filter."—A communication.

2335. And WILLIAM EDWARD NEWTON, of the Office of Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the hanging and arranging of cylindrical, conical, or spiral steel railroad springs for railway carriages."—A communication.

2339. And WILLIAM RIDDLE, of No. 1, Westbourne Terrace, Barnsbury Park, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in packing or forming merchandize or goods into bales."

As set forth in their respective petitions, all recorded in the said office on the 19*th day of October,* 1858.

2341. And ROBERT DAWSON CLEGG, of Manchester, in the county of Lancaster, Gentleman, has given the like notice in respect of the invention of "Improvements in screws."

As set forth in his petition, recorded in the said office on the 20*th day of October,* 1858.

2348. And JONAS MARLAND, of Sun Vale Iron Works, Walsden, in the county of Lancaster, and SAMUEL MARLAND, also of Sun Vale Iron Works, Walsden, in the county of Lancaster, Machinists, have given the like notice in respect of the invention of "Certain improvements in power looms."

As set forth in their petition, recorded in the said office on the 21*st day of October,* 1858.

2366. And EDWIN PALMER, of Thetford, in the county of Suffolk, Engineer, and EDWARD PALMER, of Thetford aforesaid, Ironfounder, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for cutting hay, straw, or other similar substances."

2369. And RUDOLPH BODMER, of No. 2, Thavies Inn, Holborn, in the city of London, has given the like notice in respect of the invention of "An improved toy or plaything for children."—A communication from Charles Thévenot, of Paris, in the empire of France.

As set forth in their respective petitions, both recorded in the said office on the 23*rd day of October,* 1858.

2374. And EDWARD COTTAM, of Lower Belgrave Place, Pimlico, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in the internal fittings of carriages."

2377. And FRANCIS FOWKE, of Park House, South Kensington, in the county of Middlesex, Captain in the Royal Engineers, has given the like notice in respect of the invention of "Improvements in umbrellas and parasols."

2380. And WILLIAM CRADDOCK and JOHN WHITE, both of Archer Street, St. James', in the county of Middlesex, Harness Platers, have given the like notice in respect of the invention of "Improvements in the connecting links of harness hames."

As set forth in their respective petitions, all recorded in the said office on the 25*th day of October,* 1858.

2385. And ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery for pulverizing, kneading, press-

ing, and moulding clay and other plastic materials." —A communication.
As set forth in his petition, recorded in the said office on the 26th day of October, 1858.

2391. And ADOLPHE PAUL AUGUSTE BEAU, of No. 152, Regent Street, London, has given the like notice in respect of the invention of "A pocket stereoscope."

2395. And GEORGE SPEIGHT, of No. 19, Woodbridge Street, Clerkenwell, in the county of Middlesex, Artist in Hair, has given the like notice in respect of the invention of "Improved plaits, and curls or ringlets for head-dresses, or ornaments, or additions to the natural hair, and an improved apparatus for the manufacture of curls or ringlets."
As set forth in their respective petitions, both recorded in the said office on the 27th day of October, 1858.

2403. And JOHN WESTERBY, of Upper Aspley, Huddersfield, in the county of York, Engineer, has given the like notice in respect of the invention of "An improved application of steam to vessels filled with oil, tallow, or other materials for lubricating the cylinders of steam engines of high or low pressure."

2404. And CHARLES POOLEY, of the city of Manchester, Cotton Spinner, has given the like notice in respect of the invention of "Certain improvements in, and applicable to, carding engines, and other machines for preparing cotton and other fibrous materials."
As set forth in their respective petitions, both recorded in the said office on the 28th day of October, 1858.

2413. And WILLIAM KIRRAGE, of No. 10, Goulston's Buildings, Bermondsey New Road, in the county of Surrey, Surveyor, has given the like notice in respect of the invention of "An improved elastic combination of materials impervious to atmospheric influences as a substitute for hard woods, metal, leather, or felting, and for other purposes."

2420. And ROBERT WILSON CHANDLER, of Bow, in the county of Middlesex, Engineer, and THOMAS OLIVER, of Hatfield, in the county of Hertford, Farmer, have given the like notice in respect of the invention of "Improvements in agricultural apparatuses for ploughing, and otherwise operating upon land."
As set forth in their respective petitions, both recorded in the said office on the 29th day of October, 1858.

2429. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in machinery for weaving velvets and other piled fabrics."—A communication.

2432. And JOHN DOBSON, and DANIEL PEARCE, of Saint James' Street, in the county of Middlesex, Glass Manufacturers, have given the like notice in respect of the invention of "Improvements in the manufacture of bird cages."
As set forth in their respective petitions, both recorded in the said office on the 1st day of November, 1858.

2533. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved apparatus for securing doors of safes, closets, and apartments."—A communication.
As set forth in his petition, recorded in the said office on the 11th day of November, 1858.

2566. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in colouring, preserving, and desiccating wood and marble, and in apparatus for the same."—A communication from François Casult, residing at Marseille, in the empire of France."

2567. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "A new mode of advertising." —A communication from Messieurs Berson and Beaujanot.
As set forth in his respective petitions, both recorded in the said office on the 15th day of November, 1858.

2717. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in locomotive engines."—A communication.
As set forth in his petition, recorded in the said office on the 29th day of November, 1858.

2750. And FREDERIC FINCHAM, of Ravenhead, in the county of Lancaster, Esquire, has given the like notice in respect of the invention of "Improvements in the construction of annealing kilns or ovens."
As set forth in his petition, recorded in the said office on the 1st day of December, 1858.

2907. And THOMAS SWANN WOODCOCK, of Salford, in the county of Lancaster has given the like notice in respect of the invention of "An improved index or book and paper marker."—A communication from Josee Johnson.
As set forth in his petition, recorded in the said office on the 20th day of December, 1858.

2978. And HIRAM HUTCHINSON, of the city of Paris, France, has given the like notice in respect of the invention of "Improvements in the manufacture of india rubber goods."

2980. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Im-

provements in machinery for reaping and mowing."—A communication.
As set forth in their respective petitions, both recorded in the said office on the 29th day of December, 1858.

95. And JOSEPH GIBBONS, of No. 345, Oxford Street, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in fixing door and other knobs."
As set forth in his petition, recorded in the said office on the 12th day of January, 1859.

166. And WILLIAM POUPARD, of Blackfriars Road, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "An improved wheel-skid or shoe."
As set forth in his petition, recorded in the said office on the 19th day of January, 1859.

195. And ANDRÉ JACQUES AMAND GAUTIER, JEAN GILBERT DUMAY, JEAN THEODORE PERSIN, of Paris, France, Gentlemen, have given the like notice in respect of the invention of "An improved manure."
As set forth in their petition, recorded in the said office on the 21st day of January, 1859.

235. And WILLIAM RICHMOND ALEXANDER, of Glasgow, in the county of Lanark, North Britain, Merchant, has given the like notice in respect of the invention of "Improvements in furnaces and apparatus for the manufacture of sugar, and for the consumption or prevention of smoke."
As set forth in his petition, recorded in the said office on the 26th day of January, 1859.

277. And HENRY JUSTINIAN NEWCOME, of Shenley, in the county of Herts, has given the like notice in respect of the invention of "An improved apparatus for heating or warming buildings."
As set forth in his petition, recorded in the said office on the 31st day of January, 1859.

280. And JOSEPH GRIMOND, of the city of Manchester, in the county of Lancaster, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of hearth rugs."
As set forth in his petition, recorded in the said office on the 1st day of February, 1859.

322. And GEORGE HENRY BAYLIS, of 13, Vauxhall Walk, Lambeth, in the county of Surrey, and FRANCIS ROBINSON, of 88, Salisbury Street, Lisson Grove, in the county of Middlesex, have given the like notice in respect of the invention of "An improved indicator for registering the withdrawal of liquids from vessels."
As set forth in their petition, recorded in the said office on the 4th day of February, 1859.

355. And JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, has given the like notice in respect of the invention of "An improvement in the refining of sugar."
As set forth in his petition, recorded in the said office on the 8th day of February, 1859.

369. And JAMES EDWARD MCCONNELL, of Wolverton, in the county of Bucks, Civil Engineer, has given the like notice in respect of the invention of "Improvements in steam boilers and in the generation and treatment of steam."
As set forth in his petition, recorded in the said office on the 9th day of February, 1859.

383. And JAMES EVANS, of Tarlton Street, Liverpool, in the county of Lancaster, Coach Builder, has given the like notice in respect of the invention of "An improvement in 'hansom' cabs."
As set forth in his petition, recorded in the said office on the 11th day of February, 1859.

406. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in breech-loading fire-arms."—A communication from abroad by James H. Merrill, of the United States of America.
As set forth in his petition, recorded in the said office on the 12th day of February, 1859.

409. And THOMAS HUNT, of Crewe, in the county of Chester, Engineer, has given the like notice in respect of the invention of "Improvements in steam boilers or generators, and in the prevention or combustion of smoke."
As set forth in his petition, recorded in the said office on the 14th day of February, 1859.

422. And JOHN THOMAS JONES, of Glasgow, in the county of Lanark, North Britain, Machinist, has given the like notice in respect of the invention of "Improvements in sewing machines."
As set forth in his petition, recorded in the said office on the 15th day of February, 1859.

And notice is hereby further given, that all persons, having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

1st March, 1859.

1984. WILLIAM HOBBS, of No. 196, Piccadilly, in the county of Middlesex, Shop Fitter, for an invention of "Improvements in ordnance, and warlike projectiles to be used therewith."—Dated 1st September, 1858.

1994. JAMES BLEAKLEY, of Accrington, in the county of Lancaster, Machinist, for an invention of "Improvements in apparatus for communicating between the guard and engine driver of railway trains."—Dated 2nd September, 1858.

1997. Jean Marie Bellanger, of Number 41, Rue de Trévise, in the city of Paris, France, Shoemaker, for an invention of "Caoutchouc socks or clogs, with springs, and without bridles."—Dated 3rd September, 1858.

1999. William Harkes, of Lostock Gralam, in the county of Chester, Agricultural Implement Maker, for an invention of "An improved plough and pulverizer."—Dated 3rd September, 1858.

2002. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "An improved apparatus for supporting the skirts of ladies' dresses."—A communication from a Foreigner residing abroad.—Dated 3rd September, 1858.

2005. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improved apparatuses for receiving, containing, and delivering liquids."—A communication from J. C. J. L'hôte, of Paris, a foreigner residing abroad.—Dated 4th September, 1858.

2010. Hiram Hyde, of Truro, Nova Scotia, Gentleman, for an invention of "Improvements in the construction of carriage springs." — Dated 4th September, 1858.

2014. John Fielden, of Woodshade, near Todmorden, in the county of Lancaster, Medicine Manufacturer, for an invention of "An improvement or improvements in the construction or building of cops whether of cotton, flax, silk, wool, or other fibrous materials, and also for certain utensils thereunto conducing or belonging."—Dated 6th September, 1858.

2016. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention of "Improvements in printing or marking words or figures on papers, parcels, books, pages, tickets, and other articles requiring to be marked printed, stamped, or addressed."—Dated 6th September, 1858.

2020. James Fyfe, of Greenock, in the county of Renfrew, North Britain, Brassfounder, for an invention of "Improvements in stop cocks or valves." —Dated 7th September, 1858.

2024. Frederick William Brind, of 14, Devonshire Street, Bishopgate, in the city of London, Wine Merchant, for an invention of "Improvements in sewing machines."—Dated 7th September, 1858.

2082. 'Jozé Luis, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, in the county of Middlesex, for an invention of "Coke and gas kilns."—A communication from a Foreigner residing abroad.—Dated 14th September, 1858.

2123. John Dewrance, of Barge Yard, in the city of London, Engineer, for an invention of "An improvement in the construction of pianoforte frames."—Dated 21st September, 1858.

2441. Nehemiah Brough, Machinist, of Birmingham, in the county of Warwick, for an invention of "Certain improvements in buttons, and in the means of attaching them to garments, which said means is also applicable for other purposes."—Dated 2nd November, 1858.

2460. Enoch Fielding, of Todmorden, in the county of Lancaster, Factory Operative, for an invention of "An improved method of preserving the form of cops of yarns by the application of adhesive substances." — Dated, 4th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 26th February, 1859, inclusive.*)

25th February.

492. Philipp Schäfer and Frederick Schäfer both of Brewer Street, in the county of Middlesex, Manufacturers, for an invention of "An improved apparatus for damping gummed stamps, tickets, labels, and envelopes." — Dated 26th February, 1856.

506. Francis Prime Walker, of the city of Manchester, in the county of Lancaster, Ironmonger, for an invention of "Improvements in machinery for cutting hay, straw, and other vegetable substances."—Dated 28th February, 1856.

26th February.

512. John Fowler, junior, of Havering, near Romford, in the county of Essex, Engineer, and David Greig, of Barkingside, also in the county of Essex, Farmer, for an invention of "Improvements in ploughing and tilling land."— Dated 28th February, 1856.

513. Elisha Thomas Archer, of Cedar Cottage, Wandsworth, in the county of Surrey, for an invention of "Improvements in envelopes for the transmission of letters or parcels." — Dated 28th February, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 8th February, 1859, and each bearing that date.

No. 22,843. Charles B. Allen, of Philadelphia, Pa., for an "Improved machine for making rivets, bullets, &c., &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, the revolving shafts C, C, C, with their inclined planes e, e^1, e, e^1, e, e^1, and formed as above described, and the mould-wheels or formers D, D, D, attached thereto, in combination with the yoke F and wheel G, whereby the extremities of the shafts to which the mould-wheels or formers are attached, are made to approximate and separate. I also claim the bar N, and the inclined plane n, in combination with the rod f and cutter wheel g, constructed and operated substantially as above described, whereby the portion of metal which has been moulded or formed may, when so desired be severed or detached."

No. 22,844. Giles S. Appleton, of Burlington, Vt., for an "Improved R. R. safety switch."

"Having described my improved switch, what I claim as new, and of my invention, and desire to secure by Letters Patent, is,—First, the combination of the broad and even switch rails E, E^1, with the broad and even traverse rails F, F^1, long guide rails H, H^1, and short lift and guide rails a, b, c, and a^1, b^1, c^1, when the same are arranged in relation to each other, substantially as shown and described. Second, allowing the wheels to play upon the wide traverse and switch rails, after leaving the short lift ways and guide rails, and before they reach the main track, substantially in the manner and for the purposes as above described."

No. 22,845. J. A. Ayers, of Hartford, Conn., for an "Improved method of opening and closing gates by weight of the carriage."

"What I claim as new, and desire to secure by Letters Patent, is, the counterpoised or loaded platform E, formed of two parts d, d, connected by joints or hinges g, and placed in the carriage way A beneath the gate, and extending a requisite distance at either side of it, when said platform is connected by suitable mechanism, with the gate substantially as described to operate said gate, as and for the purpose set forth. I further claim in connection with the platform E, the locking device formed of the drop bars L, L, the jointed levers M, M, connected with the bars N, N, which are provided with the upright arms r, r, extending upward through the platform, the whole being arranged to operate conjointly as and for the purpose set forth."

No. 22,846. Benjn. Barker, of Ellsworth, Me., for an "Improved sewing machine."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, the sawdust spout H, arranged relatively with the edging saw D and feed table C, substantially as and for the purpose set forth. 2nd, the trimming saw K, when used in connection and arranged relatively with the edging saw D, to operate conjointly therewith as described."

No. 22,847. Joseph P. Barker, of Wayne, Ohio, for an "Improvement in earth excavators."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the manner of arranging and adjusting the apron, and operating the same by means of the bent levers J, for the purpose of conveniently discharging the earth taken up at any desired point as set forth, and used in connection with the adjustable wheels as herein described."

No. 22,848. Saml. K. Bassett, of Galesburgh, Ill., for an "Improvement in steam ploughs."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, having the wheels B, of the truck A, attached to separate axles C, with pivoted or swiveled inner bearings b, the outer bearings of the axles being fitted in guides D, and the outer ends of the axles being connected by rods E, with racks F, into which pinions c, of shafts G gear, the shafts being connected by the endless chains J, passing around cone pulleys I, placed in reverse positions on the shafts, the whole being arranged to operate substantially as shown and described, to facilitate the guiding and turning of the machine as set forth."

No. 22,849. Henry I. Behrens, of New York, N. Y., for an "Improved billiard register."

"But what I do claim, is the use of numbers instead of balls, or technically called points, so arranged and worked by mechanism, that any number of points made by the player, may be readily marked on the number itself, and the amount of the thus successively marked points is made to be shown by a register, the whole arranged and operated by mechanism, substantially the same as herein described."

No. 22,850. Jacob Bergstresser, of Berrysburgh, Pa., for an "Improvement in monumental daguerreotype cases."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the central frame encased by a central raised bead b, on the rear side of a glass plate, with the outer frame encased by an outer raised bead a, the central frame and outer frame being cast together on the same glass plate, and the outer one being deeper than the inner or central frame, substantially as and for the purposes set forth."

No. 22,851. Wm. G. A. Bonwill, of Dover, Del., for an "Improvement in application of electricity in dental operations."

"I do not the application of electricity to dental purposes, as this is shown in the Patent of J. B. Francis, but what I do claim as my invention, and desire to secure by Letters Patent, is, in the application of electricity to dental purposes, the mode herein described, of extracting or extirpating the dental pulp or internal nerve of teeth, to wit, by the application of a current of electricity through the instruments made use of in the performance of said operation, directly and constantly to the dental pulp, or internal nerve, during the operation of cutting out or extracting the same, as set forth, and for the purposes described."

No. 22,852. Chas. B. Boyle, of Albany, N. Y., for an "Improvement in photography on wood." —Patented in England, 7th January, 1859.

"I claim as new and of my invention, and desire to secure by Letters Patent, is, 1st, the described or substantially equivalent method of applying albuminous matter, and afterward coagulating it by heat, so as to form an insoluble base within the pores of the wood, for the purpose set forth. 2nd, taking photographic pictures upon wood, the pores of which have been filled with gelatine or its equivalent, and subsequently removing the gelatine from the block, without injury to the picture, by the application of a warm solvent."

No. 22,853. John L. Brown, of Indianapolis, Ind., for an "Improved machine for riving laths from the block."

"What I claim, and desire to secure by Letters Patent, is, the combination and arrangement of the yoke D, knife plate C, guides F and G, with the pitmans N and M, elbow levers K, L, rests I and I, when constructed and operated substantially as and for the purposes set forth."

No. 22,854. John H. Cheever, of Boston, Mass., for an "Improvement in manufacture of rubber hose pipes."

"Having thus described my improvement, I shall state my claim as follows: I do not claim the vulcanizing process, or any compounds of rubber herein above referred to, because, with the exception of the cross fibre compound, they are old; nor heating the hose or pipes on rods or tubes of iron; nor any peculiarity in the construction of the machine; neither do I intend, in this application, to claim forming a

cross fibred fabric, as these will constitute the subject of other patents; but what I do claim as my invention, and desire to have secured to me by Letters Patent, is, the new article of manufacture consisting of hose or pipe made of fibrous rubber, by powerful pressure, and without seams or joints, substantially as above described."

No. 22,855. Geo. E. Chenoweth, of Baltimore, Md., for an "Improvement in harvesters."

"I do not claim making the shells of the cam cylinder adjustable, to compensate for wear, as that has been secured to me in a former patent; but what I do claim, is the combination of cam cylinder with the cross arm, slide bar, and slotted or jaw lever, constructed, arranged, and operating substantially in the manner and applied to the purpose specified. I also claim a slide bar having two cross arms provided with friction rollers, and working in the slotted box L, as described."

No. 22,856. E. Hall Covell, of New York, N. Y., for an "Improvement in coffee pots."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination of the chamber C, with the condensing chamber D, and condensing pipes E, E^1, as and for the purpose set forth. 2d, the combination of the condensing pipes E, E^1, with the steam-pipe F, and trap G, as described for the purposes set forth."

No. 22,857. Florian Dahis, of Williamsburgh, N. Y., for an "Improved valve bung."

"I do not claim, broadly, a bung provided with a valve, irrespective of the construction and arrangement of the same, for such device has been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, a bung A provided with an air passage *a*, terminating in a recess or chamber *b* in which a disk or valve *c*, of rubber or other suitable material, is placed, and secured therein by a plate *e* provided with a hole *f*, specifically as and for the purpose set forth."

No. 22,858. Beriah Douglas, of Appleton, Wis., for an "Improved washing machine."

"My claim is not for the tub, nor rocker, described, which are novel only in part; but I claim as my invention, and desire to secure by Letters Patent, the washing seat and the foot box, as combined with the washing rocker and the hand supporters, and the clothes holder or wringing, as combined with the washing tub, all for the purposes herein assigned to them."

No. 22,859. James Dundas, of Little Rock, Ill., for an "Improvement in cultivators."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the half shovels *w*, *w*, in connection with the bar *h*, *h*, and *i*, to be moved to the right or left, at pleasure of the operator."

No. 22,860. Geo. Essington, of Plainfield, Ill., for an "Improvement in cultivators."

"Having described my improvements, so as to enable any person skilled in the art to make and use them, I claim the arrangement of the mould boards T, T, center piece P, in combination with the coulter or standard H, point I, and shares J, J, the whole being constructed substantially as described, for the purposes set forth."

No. 22,861. Squire M. Fales, of Baltimore, Md., for an "Improved furnace for smelting iron."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination with the ordinary furnace, of the arched chambers or recesses at the sides of the furnace, as herein described, the opening in the crown of the arched recess or chamber, as set forth, and the movable tymp at the external openings of the arched chambers or recesses, as specified."

No. 22,862. Daniel P. Farnham, of Johnstown Centre, Wis., for an "Improvement in cattle pumps."

"I do not claim raising water by the weight of an animal upon a platform. The particular improvements that constitute my said invention, and which I claim to be the original and first inventor of, are,—First, the combination of the lever and rod, or their equivalents, with the gate and inclined platform, arranged and operating substantially as described for the purpose set forth. Second, the strips of metal *e*, secured on the inside of the barrel of the pump, to prevent the valves from coming in contact with the plunger as it works up and down, in combination with the barrel, as set forth. Third, the packing ring I, constructed as described, and kept up to the plunger by weights on the back side, as set forth."

No. 22,863. J. B. Fisher, of Beaver Dam, Wis., for an "Improved mortising chisel."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, constructing the tool with two cutting edges or portions (a^1), (*b*), of different lengths, substantially as herein shown and described, and for the purpose set forth."

No. 22,864. Perry G. Gardiner, of New York, N. Y., for an "Improvement in manufacture of cast steel."

"What I claim as my discovery and invention in the foregoing described process is, not simply the gradual and prolonged cooling of the metal after melting as aforesaid, but it is the process as a whole of pouring the melted metal into intensely heated moulds, and then placing them, thus filled, immediately into the heated oven or furnace, there to congeal away from the external atmosphere down to a cherry-red heat, and then immediately plunging the ingots or bars into the highly heated oil, and retaining them immersed in it for a considerable time, as described."

No. 22,865. Perry G. Gardiner, of New York, N. Y., for an "Improvement in manufacturing tools from cast steel."

"What I claim as my invention and discovery in the foregoing is, the process of treatment of the cast steel by pouring it in a molten state into moulds of the shape and size required for tools, instruments, axes, &c., previously heated to a high degree of heat, the steel being melted in a closed oven or furnace, and then replacing the moulds, so filled, in an oven or furnace away from the external air, and keeping them there until they have been cooled down to a cherry-red heat, and then immersing the tools, axes, &c., into the fluid mixture of a temperature of from 100 to 150 degrees Fahrenheit, as described."

No. 22,866. John C. Garland, of Chicago, Ill., for an "Improvement in mail bag fastening."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of a slotted sliding strap F, when made of a single steel spring and used in combination with a series of narrow stationary iron guides E attached to the perforated flap of the bag, and with a steel spring B having headed stop pins C fitted between the front portion of the binding and the upper edge of the mail bag, substantially as and for the purposes set forth."

No. 22,867. Geo. W. B. Gedney, of New York, N. Y., for an "Improvement in rotary spading machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, a series of spades which are operated, substantially as herein set forth, so as to descend edgewise into the soil successively in each others track, and then to move laterally to detach the slice of soil upon which they operate from the undisturbed land. I also claim combining an endless series of spades, operating substantially as herein set forth, with a cam, or its equivalent, that controls their positions by means of spade handles, or their equivalents, that are connected with the blades of the spades. I also claim adapting the machine to be moved either end forward by constructing the device that imparts lateral movement to the spades in such manner that its position may be changed, and that it may be made fast in either position."

No. 22,868. James C. Gilbert, of Winthrop, Me., for an "Improvement in skirt hoops."

"What I claim in connection with the movable spools and springs placed or strung on the cord is, a series of stationary abutment blocks *a*, *a*, *a*, fastened at intervals to the cord, and operating in manner and for the purpose as specified."

No. 22,869. John A. Goewey, of Albany, N. Y., for an "Improvement in padlocks."

"I am aware that spring padlocks have been constructed to throw out their shackles, therefore I do not claim them broadly; but what I do claim as my invention, and desire to secure by Letters Patent, is, the combination of the tumbler E, having attached to it the spring F, with the tumbler D, having attached to it the stump G, when arranged and operated in the manner set forth."

No. 22,870. Henry J. Hale, of Indianapolis, Ind., for an "Improvement in the arms of broadcast seeding machines."

"What I claim, and desire to secure by Letters Patent, is, the combination and arrangement of the segments E, E, and hinge D, when constructed and arranged as and for the purposes set forth."

No. 22,871. Saml. Hickok, of Buffalo, N. Y., for an "Improved refrigerator."

"I claim the combination of the tube B, arranged as shown, with the tank A, when combined with the case (G, G, G), for the purposes and substantially as herein described."

No. 22,872. Joseph S. Hoard and Valorus O. Spencer, of Mansfield, Pa., for an "Improved door lock."

"Having thus fully described our said invention, we do not claim to be the first to introduce a sliding plate, to close the outer key hole, as this has already been done in several instances; neither do we claim placing the outer and inner key holes in different transverse planes through the lock; neither do we claim simply and broadly preventing the bolt or the plate H, by some sort of detent, from being slid back, as detents have been before used for this purpose. The particular improvements which constitute our said invention, and which we claim as having been originally and first invented by us, are,—First, the combination of the key with the flange *h* and plate H, by which the key is made to operate as a detent to prevent the return of the plate H, which covers the outer key hole, as set forth. Second, the combination of the stop *j* upon the bolt with the key, in such a manner that, when the key is in the position represented in Figures 3 and 5, the stop *j* will strike against the key, and prevent the return of the bolt. Third, the stop *i* on the flange *h*, when combined with the key in the manner described, to prevent said key from being turned too far, as above stated."

No. 22,873. Albion P. Howard and Allen Rowe, jr., of Stoneham, Mass., for an "Improvement in sole cutting machines."

"We are aware that two knives applied to a horizontal shaft, so as to project from opposite sides of it, and that to such shaft vertical reciprocating motions, as well as intermittent rotary motions, have been given, so as to carry each knife, in succession, against a bed or piece of leather thereon; we do not claim such, as it differs materially from our invention; but what we do claim is, arranging the sole cutter on the lower end of and at right angles to a vertical shaft, and combining with such mechanism, not only for elevating and depressing such shaft in line of its axis, but mechanism for producing successive semi-rotations of such shaft and cutter, the same operating so as to carry the sole cutter toward and away from the bed, and to give to such cutter an intermittent rotary motion, in manner and for the purpose as specified. And in combination with the mechanism for elevating and depressing the cutter, and that for rotating it under an arrangement of the said cutter, with respect to the shaft, as specified, we claim the guide tooth *y*, and the clutch recesses *x*, *x*, arranged to operate in manner and for the purpose as set forth. We do not claim the combination of a sole bender with a sole cutter, unprovided with a sole discharger, as such is found in the United States Patent, No. 11,147; but what we do claim is, the combination and arrangement of the concave sole discharger and the convex sole former or bender with the cutter, and so as to operate together in manner and for the purpose as herein-before specified."

No. 22,874. Gilbert L. Hudson, of Conneaut, Ohio, for an "Improvement in door springs."

"I do not claim any of the described parts separately or in detail; but do claim as my invention or device, and original with me the use of the standard A, coil spring B, stirrup C, crotch lever D, connected with rod F, link F, as operating vice versa to gate or door G, the whole as arranged or connected and operating substantially in the manner and for the purpose set forth."

No. 22,875. Frederick Hull, of Derby, Conn., for an "Improvement in ladies' hoop skirts."

"Having thus described my improvements in forming the bustles in skeleton skirts, what I claim therein as new, and desire to secure by Letters Patent, is, the combination of the sloping bustle springs with the waist band, adjustable at the back and front, the whole arranged substantially as described, whereby the adjustment of the bustle is effected by the waistband alone."

No. 22,876. Marshall Ingersoll, of Grafton, Ohio, for an "Improved surveying instrument for determining inaccessible heights and distances."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of a surveying instrument for taking distances and altitudes upon the general principle set forth in the foregoing description and specification. I claim, especially, the arrangement of the three sights E, F, G, or their telescopic equivalents, one of which is adjustable upon a scale by which means and the adjustment of a target having the same horizontal scale, the distance of any object within the range of vision can be determined. In this claim I do not intend to confine myself to the precise arrangement herein set forth, but to use a telescope in which a similar adjustment of hair sights (or filaments of silk) are provided for upon a definite scale, as herein set forth; neither do I intend to confine myself to any particular scale, but to adopt a decimal scale, or any other that I may see fit. I also claim, especially, a horizontal target, having marked upon it a scale corresponding to that of the accompanying instrument, which target is to be used in connection therewith, as herein described, the same forming a part of my invention. I further claim the scale of altitude, in combination with the scale of distance to be used, in the manner and for the purpose specified."

No. 22,877. Augustus Jouan, of San Francisco, Cal., for an "Improved deep sea sounding apparatus."

"I do not claim the external form of the instrument; neither the mode of calculating the depth, by the time of submersion; neither that, as set forth, for testing the highest pressure. I claim as my invention, and desire to secure by Letters Patent:—I claim the combination and arrangement of the several essential devices described, operating in the manner and for the purposes set forth."

No. 22,878. Frederic Kuhlmann, of Paris, France, for "Improvements in methods of varnishing and protecting surfaces."

"Having thus described the various methods invented by me, for preserving the surfaces of paintings, the basis of which consists in whole or in part, of artificial sulphate of baryta, made as described. I claim, 1st, the process herein described, of fixing the surfaces of fabrics (fibrous or textile) or solid surfaces, as walls or masonry, by the application of a weak solution of an alkaline silicate, as the silicate of potash and soda, to said paint basis. 2nd, I also claim for a similar purpose, the method herein described, of laying a coating of artificial leather, produced as set forth, over the surface of the basis pigment. 3rd, I also claim the within described method of fixing and rendering printed papers and fabrics waterproof, and fixing the same by hot calendering. 4th, I also claim the within described method of rendering the surface of plaster of Paris waterproof, and of preserving the same, by forming a coating of artificial sulphate of baryta upon said surface."

No. 22,879. Rufus Lapham and Riley P. Wilson, of New York, N. Y., for an "Improved churn."

"What we claim as our invention, and desire to secure by Letters Patent, is, the use of an exhausting or condensing pump, in connection with the cream reservoir, as set forth, for the purpose of forcing air upon the upper surface of the cream, or withdrawing it from it in the manner described and for the purpose set forth."

No. 22,880. C. V. Littlepage, of Austin, Texas, for an "Improved water wheel."

"I do not claim separately, the curved buckets *f*; but, having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the wheel G, provided with curved buckets *f* and attached to the shaft E, stepped in the block D, and otherwise arranged as shown, in connection with the spiral water passage C in the block or bed D, the whole being arranged to operate as and for the purpose set forth."

No. 22,881. James A. Lowe, of New York, N. Y., for an "Improvement in gun lock."

"What I claim as my invention, and desire to secure, is, the rule joint, or its equivalent, in the link, substantially as described, and for the purpose herein set forth."

No. 22,882. Lucius Lyman, James P. Hodgkins, and Edmund Rawson, of Carthage, N. Y., for an "Improved machine for rising staves from the block."

"We do not claim, broadly, the employment or use of movable or vibrating gauges, for such device has been pre-

viously used; but having thus described our invention, what we do claim as new, and desire to secure by Letters Patent, is, 1st, having the tubes *j, j*, of the rods or gauges *o, o*, fitted in blocks, *k, k*, which are adjusted by the screws *l, m*, or their equivalent, for the purpose specified; and 2nd, placing the rods or gauges, *o, o*, in tubes *j*, in the lower end of which springs *p* are placed, and on which springs the rods *o, o*, rest, for the purpose set forth."

No. 22,883. JOHN F. MASCHER, of Philadelphia, Pa., for an "Improvement in alarm clocks."

"I do not claim either the rack, pinion, or snail, separately, but I claim the application of the rack, pinion, and snail, in the manner set forth, to the going part of a clock or watch, for the use and purpose described."

No. 22,884. JOHN MAY, of Columbus, Geo., for an "Improved paddle wheel."

"What I claim as my invention, and desire to secure by Letters Patent, is, so applying and arranging a frame I, outside of the wheel, and in combination with the axle, or center, H, on which the floats, rotate, or its equivalent, that the said frame may be turned about the wheel, and by being so turned, will change the position of the said axle, or center H, or its equivalent, relatively to the center of the drum, and thereby cause the floats to be projected from the drum, in such positions, relatively to the axis thereof, as may be desired, substantially as and for the purpose herein set forth."

No. 22,885. WM. K. MILLER, of Canton, Ohio, for an "Improvement in harvesters."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, first, the combination of the braces and rocking bar, substantially as and for the purpose set forth. I also claim the adjustable hinge plate K, for the purpose herein described. And, finally, I claim the combination of the shoe hinge plate, braces, and rocking bar, substantially in the manner and for the purposes herein described."

No. 22,886. NELSON W. NORTHRUP, of Greene, N.Y., for an "Improvement in stoves."

"I claim as my invention, in a stove constructed as hereinbefore described, the combination and arrangement of the partition K, Fig. 5, with the flues H, H, and dampers I, I, in manner and for the purpose specified."

No. 22,887. WASHINGTON ABRAM PEASLEE, of Indianapolis, Ind., for an "Improved soot and spark arrester."

"What I claim, and desire to secure by Letters Patent, is the combination and arrangement of the cap L, rod H, walls G, F, and Q, with the case or outer walls C, flues B and E., and wall D, when constructed, arranged, and operated, substantially in the manner and for the purposes set forth."

No. 22,888. HENRY PEMBERTON, of East Tarentum, Pa., for an "Improvement in the process of manufacturing caustic alkalies."

"Having thus described my improvement in the manufacture of caustic soda, and other caustic alkalies, what I claim, as my invention, and desire to secure by Letters Patent, is, the mode herein-before described of separating the solution of caustic soda, or other caustic alkaline liquid, from an insoluble precipitate, by the use of a filter, constructed substantially in the manner herein-before described."

No. 22,889. JOSEPH A. PERLEY, of Lynn, Mass., for an "Improvement in heel and spoke shaves."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the adjustable gauge C and beveled shanks A, A, substantially as described, so that the gauge may be moved in a plane, but slightly inclined to the convex side of the knife toward the edge or from it, for the objects specified."

No. 22,890. N. B. PRATT, of Deep River, Conn., for an "Improved carpet sweeper."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the bearings of the friction driving rollers *e, e*, in oblong slots *g, g*, of the box A, and the rollers d^1, d^1, in the specified relation to the ends of the revolving broom or brush, substantially as and for the purposes set forth."

No. 22,891. T. A. REDINGTON and GEO. MCCLUER, of Fredonia, N. Y., for an "Improvement in the manufacture of cheese."

"We claim as new, and desire to secure by Letters Patent, the combination of the water box A, milk vat B, the reserve water box G, boiler E, pipes *g, h, j, k*, and the six-way cock F, arranged to operate substantially as and for the purpose set forth."

No. 22,892. DAVID REYNOLDS, of Ogden, Ind., for an "Improved device for preventing tremulous vibration of saw gates."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining the guide bar D and boxing E with the sash saw and fender posts, for the purposes set forth, and substantially as above described."

No. 22,893. ALBERT W. ROBERTS, of Hartford, Conn., for an "Improvement in machines for stretching leather."

"Claim.—What I claim as my invention, is, the constructing of the jaws of leather stretchers, with ways for the wedges to slide on, that the wedges may be so relieved from the leather, when drawn back, that the leather can be put in without removing the wedge from the jaw. I also claim making the frames of hollow tubes on which the jaws slide, and also the application of steam to said frame for drying purposes. Also the shafts and gears for throwing back the wedge, all of which is herein set forth and described."

No. 22,894. WM. N. ROWE, of Sharpsburgh, Md., for an "Improvement in corn huskers."

"Having thus fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is, the combination of the adjustable plate K, armed with spikes (*i*), with the endless apron I, and knives D and C, when these several parts are constructed, arranged, and operated in the manner described, for the purposes specified."

No. 22,895. N. C. SANFORD, of Meriden, Conn., for an "Improvement in skates."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching the runner B of the skate to its stock A, by means of the springs C, C, substantially as and for the purpose set forth."

No. 22,896. SILAS T. SAVAGE, of Albany, N. Y., for an "Improvement in cast iron pavement."

"I do not claim, broadly, the connection of the blocks, by means of dovetails, nor by the detached locking pieces; but what I claim as my invention, and desire to secure by Letters Patent, is, combining the blocks by the peculiarly arranged dovetails cast on the blocks, and the locking pieces composed of heads and feet fitting between the blocks and into their dovetails, substantially as herein described."

No. 22,897. WM. SIMS, of Dayton, Ohio, for an "Improved refrigerator."

"I claim as new and of my invention, the described arrangement of the ventilating passages E and F, communicating with the upper part of a receptacle C, in the lower part of which are placed ice and articles to be cooled or preserved, and in whose lower part, circulation of air is avoided, in the manner and for the purpose set forth."

No. 22,898. JEREMIAH P. SMITH, of Hummelstown, Pa., for an "Improvement in corn shellers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the groups of short teeth *f, f*, alternating with the smooth spaces *d, d*, which are provided with the raised ribs *g, g*, in combination with the sharp-edged teeth *h, h, h*, (with curved or straight edges) when arranged circularly, in lines parallel with the axis of the wheel, and operating in connection with the ear holder D, so as to act on the ears of corn nearly lengthwise thereof, substantially in the manner and for the purposes herein specified."

No. 22,899. JOEL SMITH, of Northbridge, Mass., for an "Improvement in regulating the twist in throstle frames."

"I believe I have described and represented my improvements for regulating and equalizing the twist of yarn on ring traveller spinning frames, so as to enable any person skilled in the art to make and use them. I will now state what I claim, and desire to secure by Letters Patent:—I claim the expanding pulley D, arranged to operate as described, for the purposes set forth in the foregoing specification."

No. 22,900. JOHN B. STONER, of Bennington, Ill., for an "Improvement in grain weighers."

"Having thus fully set out the construction and operation of my invention, what I claim as new in grain weighers, and desire to secure by Letters Patent, is, 1st, the rotary hopper, constructed and operating substantially as described. 2d, I claim suspending the rotary hopper upon the lever or scale arms, as herein set forth. 3rd, I claim the arrangement of means herein described for operating and controlling the valve or door to the shute of the stationary hopper. 4th, I claim operating the indicators, by means deriving their motions from the weighted end of the scale arms, in combination with the springs or their equivalents, as described. 5th, in combination with the suspending of the rotating hopper, as described, I claim the suspending of the weight, as described."

No. 22,901. JOHN TEMPLE, of Middletown, Ohio, assignor to Temple, Mills, and Stout, of said Middletown, for an "Improved sluice for water wheels."

"I claim as new and of my invention herein, the winged gates B, C, constructed, arranged, and operating in combination with a series of scroll shutes A, substantially in the manner and for the purpose set forth."

No. 22,902. JOHN TEMPLE, of Middletown, Ohio, assignor to Temple, Mills, and Stout, of said Middletown, for an "Improvement in water wheels."

"I claim as new and of my invention herein, the construction and arrangement in central discharge water wheels, of buckets E, which have the described compound cyma-reversa and downward and outward curve, whereby the water acts on the wheel by percussion, reaction, and gravitation, and escapes freely without back action, as set forth."

No. 22,903. WEBSTER THOMAS, of Oxford, Ohio, for an "Improved machine for tenoning spokes."

"Having described my invention and the operation thereof, I claim the combination of the beds I and B, constructed as described, with support piece T, wedge V, and the double series of cutters *d*, *e*, in the same cutter bearer, the construction and operation being as described."

No. 22,904. DANIEL M. TRUE, of Rockland, Me., for an "Improvement in lasts."

"I do not claim the use of the bolt and spring to be used for a fastening as new; but I claim as a fastening for last blocks the bolt *a* when formed with the notches *f* and *g*, and combined and arranged with the spring *b*, the pin *c*, and last hook hole *e*."

No. 22,905. JOHN WALCH, of New York, N. Y., for an "Improvement in revolving fire-arm."

"What I claim as my invention, and desire to secure by Letters Patent, is, the revolving chambers or breeches fitted with two ranges of nipples in combination with the double hammers acted on by one trigger and firing the respective charges in succession, substantially as specified."

No. 22,906. AUGUSTUS WATSON, of Walnut Run, Ohio, for an "Improvement in underground grain ploughs."

"Having thus fully described the nature and object of my invention, what I claim therein as new, is, so hanging a coulter to which a 'mole' is attached, as that by removing a key, or its equivalent, that restrains said coulter, and by advancing the plow, said coulter and 'mole' will run out of the ground, substantially as herein described and represented."

No. 22,907. A. H. WEBSTER, of Hudson, N. Y., for an "Improvement in apparatus for supplying hydro-carbons with oxygen."

"I do not claim, broadly and irrespective of the means employed, supplying hydro-carbons with oxygen by mechanical means; but having thus described my invention, what I claim, and desire to secure by Letters Patent, is, the bellows B, B, actuated by the tappit wheels D, D, and and attached to the chest C provided with a cover or weight *d* and an eduction opening *e*, combined and arranged to operate as and for the purpose herein set forth."

No. 22,908. WM. L. WEST, of Elmira, N. Y., for an "Improvement in bee-hives."

"What I claim as my invention, and desire to secure by Letters Patent, is, the use of the opposing springs *d*, *d*, for the purpose of insuring a contact of the parts contiguous to the passage way *c*, substantially as described."

No. 22,909. SYLVANUS A. WHEAT, of Franklin, N. Y., for an "Improved apparatus for drawing water."

"What I claim, and desire to secure by Letters Patent, is giving the barrel a longitudinal motion on the shaft, also connecting the valve to the rope by the rod, substantially for the purpose described."

No. 22,910. THOS. WILLIAMS and WM. C. JOHNSON, of Fishersville, Conn., for an "Improved ellipsograph."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the slotted bar A provided with the slide B, the arbor *c* passing through the slide B with the disk C and slotted bar D attached, and the elastic bar G pivoted to the bar A and connected eccentrically with the disk C, the bar D having the pencil stock E attached, and the whole arranged substantially as and for the purpose set forth."

No. 22,911. JOHN P. WILSON, of Frankfort, and JOHN F. THOMAS, of Ilion, N. Y., for an "Improvement in burglars' alarms."

"We do not claim securing the alarm by means of a screw to the casing of the door or the use of fire arms as a means of alarm and defense in cases of attempted robbery; but we do claim, 1st, the employment, in connection with the within-described gun or alarm, an adjustable gimblet screw (D) which is secured in a dovetailed groove in the body while in use, and which is secured in the barrel or bore by a screw when not in use, substantially as is set forth. 2d, the employment of the two sides A^1, A^1, between which the hammer falls, which serve to prevent particles of the cap from flying off, and at the same time forming a snug protection for the hammer, and causing a louder report of the cap, as is herein fully set forth."

No. 22,912. THOS. K. WORK, of Hartford, Conn., for an "Improved odometer."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the curved or segment weight *m* pivoted to the arm *l*, which is attached to the pinion e^1 and fitted between the annular ledges *n*, *o*, substantially as and for the purpose set forth."

No. 22,913. FREDERICK YEISER, of Lexington, Ky., for an "Improved instrument for taking altitudes of the sun."

"Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is, the arrangement of the spirally slotted cylinder L, on a rotary frame E, in such relation to a pin G, and to a strongly defined line 3, 4, that it operates substantially as and for the purposes specified. And in combination with the rotary frame E, I also claim operating the cylinder L, by means of a toothed sector I, which gears into cogs J, which are attached to the stationary disk C, in the manner and for the purpose substantially as described."

No. 22,914. JOHN K. BIGELOW, of Waltham, Mass., assignor to Appleton, Tracy, and Co., of said Waltham, for an "Improved mechanism for stopping watches."

"I claim the peculiar mode of making the ratchet, viz., with trapezoidal teeth, and with a notch in each of them, as described and represented. I also claim the arrangement or application of the stop lever E, with respect to the stopping stud and the ratchet, or so as to serve, not only as a carrier and actuator of the former, but as a stop to the latter, under circumstances as above specified."

No. 22,915. MICHAEL BOYER, of Germantown, Ohio, assignor to Chas. S. Rohner, and Wm. Gunckel, of said Germantown, for an "Improvement in seed drills."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, arranging the spring C, ratchet wheel *b*, ratchet *a*, link D, drag bar A, arm E, and discharge spout B, substantially in the manner and for the purpose herein specified."

No. 22,916. JOHN N. DENNISON, of Newark, N. J., assignor to himself, Joseph Dennison and David Baker, of said Newark, for an "Improvement in steam condensers."

"What I claim and desire to secure, is, a feed pump with its attachments and connections substantially as described, in combination with a condenser, constructed and arranged as herein above set forth."

No. 22,917. E. B. HALL, of Woodbury, N. J., assignor to himself and Joseph C. Farley, of Pine Grove, N. J., for an "Improvement in stump extractors."

"I am aware that in the stump extractor, for which Letters Patent were granted to Jason S. Wood, on the 3rd February, 1857, cams in conjunction with other appliances are used. I therefore do not claim broadly, such a device, but I claim, as an improvement on the Patent of J. S. Wood, the cam J, when constructed in the peculiar manner herein described in combination with the rods G and G^1, their respective rollers and hooks K and K^1, the whole of the above parts being arranged in respect to each other for joint action, substantially as herein set forth."

No. 22,918. PETER HOFFMAN, of Rising Sun, Ind., assignor to himself and Saml. F. Covington, of Indianapolis, Ind., for an "Improved die for cutting screws."

"What I claim, and desire to secure by Letters Patent, is, the construction of a solid die, as above, in which the bottom of the groove is so thrown up in the rear of the cutting point or edge of the same, as to avoid the friction occasioned by the rubbing upon the top of the thread of the bolt cut or threaded."

No. 22,919. GEO. HINMAN, of New Haven, Con., assignor to himself and Chas. Monson, of said New Haven, for an "Improved knife sharpener."

"I am aware, that two cutting edges set at different angles, have been used for knife sharpeners, for many years (but in all such cases, the angle varied, as the cutting edges were more or less separated at the upper ends). I therefore do not claim a knife sharpener made of two pieces of steel with the edges fitted to abrade the sides of the edge of the knife, as such, as my invention; but what I claim as my invention, and desire to secure by Letters Patent, is, the use of the two cutters (B & C), when made susceptable of being adjusted to any desired angle by means of a slot (as at *a*) while using any portion of the length of the cutting edges, and the whole is constructed and made to operate, substantially as herein described. 2d, I also claim the rest (D) in combination with the adjustable cutters (B & C), when the whole is constructed and fitted for use, substantially as herein described."

No. 22,920. WM. LEACH, of Clarkson, N. Y., assignor to himself and Geo. P. Tisdale, of Chili, N.Y., for an "Improvement in self-acting cheese press."

"I do not claim simply a self-acting press, but what I claim as my invention, and desire to secure by Letters Patent, is, the pitmen D, D, arranged substantially as described, in combination with the pairs of cross levers B, B, so as to keep said cross levers at equal heights, at opposite ends of the press, and consequently, at the same relative angle to the table A, in all positions, for the purpose of securing uniformity of pressure upon all parts of the articles pressed. I also claim the combination of the rod *l*, handle *r*, and pawls *m*, *m*, mounted in one pair of cross levers B, B, with the notches *o*, *o*, *o*, or their equivalents, in the other pair of cross levers, arranged and operating substantially in the manner and for the purpose herein set forth."

No. 22,921. HORATIO LEONARD, of New Bedford, Mass., assignor to himself and H. Ryder, of said New Bedford, for an "Improvement in moulding paraffine candles."

"I do not claim manufacturing candles by means of moulds; but what I claim as my improvement in moulding paraffine candles, is, the improved process, substantially as described, the same involving the employment of a heated mould and water, and air baths, at temperatures, and in the manner, substantially as herein-before mentioned."

No. 22,922. EDWD. MAYNARD, of Brooklyn, N. Y., assignor to himself, R. K. Slaughter, and Thos. E. Purdy, of said Brooklyn, for an "Improved method of covering with fibrous material, submerged spiral electrodes, for short distances."

"What I claim as my invention, and desire to secure by Letters Patent, is, constructing submarine telegraph cables of metallic conductors, twisted in a helical form, in combination with layers of cords or strings, parallel, or nearly so with the axis of the cable, that are confined together by a serving or winding, and are saturated with waterproof non-conducting material, as set forth."

No. 22,923. LOREN J. WICKS, of Racine, Wis., assignor to himself and Thomas Burbeck, of said Racine, for an "Improved boot-jack."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the within described boot jack, as an article of manufacture with the tools formed on the rear or front of its arms, said arms being made to open or shut together, substantially in the manner specified."

RE-ISSUES.

GEORGE RIESECK, of Pittsburgh, Pa., for an "Improved steam valve." — Patented 10th August, 1858.—Re-issued 8th February, 1859.

"Having thus described the nature, construction and operation of my improvement, what I claim as my invention, and desire to secure by Letters Patent of the United States, is,—First, the valve (D) with a projecting hollow stem (E), which is reduced, so that its end presents an area only equal or nearly so to the receiving ports in the face of the valve, in combination with the main steam chest or chamber (J), and an auxiliary steam chest or casing (I), furnished with a stuffing box (*d*), and constructed so as to cover the whole of the back of the valve, excepting the end of the stem, or a portion of the back equal or nearly equal to the receiving ports in its face. substantially as, and for the purposes set forth. Second, in combination with the above, the peculiar manner herein specified of making the face of the valve (D), with six ports (F, F^1, F^2,) (G, G^1, G^2,) three for receiving and three for exhausting said ports, being arranged in such relation to each other that that when the valve is applied to an oscillating engine, one receiving port always stands in line with an exhaust port, and to only four of the ports shall be in use when the engine is working, the other two being kept in reserve, so that by shifting the valve the engine will be instantaneously reversed under a full pressure of steam without shutting off the steam between the engine and the boiler, as the herein described and set forth."

WILLIAM SELLENS, of Philadelphia, Pa., for an "Improved machine for threading bolts." — Patented 1st December, 1857.—Re-issued 8th February, 1859.

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is the use of rotating dies, in combination with cams, or their equivalent, when both are so arranged as to be capable of revolving about a common centre at different velocities, for the purpose of opening and closing the dies, substantially as described. I claim the arrangement of cams with open spaces between them, in combination with the die box and dies, substantially as described, to facilitate the changing of the dies. I also claim the mode of attaching the top holder to the revolving die box, substantially as described."

GEORGE THOMPSON, of East Tarentum, Pa., for an "Improvement in boxes for preserving alkalies.——Patented 15th September, 1857.—Re-issued 8th February, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, the use of metallic boxes, constructed as described, and united with cement infusible at the degree of heat at which the caustic alkalies of soda and potassa remain fluid, for the purpose of putting up those caustic alkalies in small quantities, as described."

JOHN WÜST, of Philadelphia, Pa., for an "Improvement in self dumping coal bucket."— Patented 13th July, 1858.—Re-issued 8th February, 1859.

"Having thus described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is, the combination of a bucket suspended by the handle at points below its centre of gravity, in combination with a self-acting detachable latch, operated by the bucket touching the ground."

WILLIAM W. BATCHELDER, of New York, N. Y., for an "Improvement in lamps."—Patented 28th December, 1858.—Re-issued 8th February, 1859.

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United States

is, the arrangement of small tapers or wick tubes below and on both sides of the main or illuminating burner, in combination with a suitable cap, for the purpose of producing a more complete combustion, substantially as set forth."

STENBEN T. BACON, of Boston, Mass., assignee of Edward N. Smith, of Springfield, Mass., for an "Improvement in machines for folding paper."—Patented 19th May, 1857.—Re-issued 8th February, 1859.

"After having described my improvements, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is,—First, the employment of adjustable points or register pins, or their equivalents, for the purpose of correctly presenting printed sheets to a paper folding machine, substantially in the manner and for the purpose set forth. Second, the combination of a registering apparatus with a paper folding machine, substantially in the manner described. Third, the combination of the register pins with the fingers, reciprocating carriage, and slotted bar, for the purpose specified. Fourth, the combination of the slotted reciprocating carriage with the knife *d*, as described. Fifth, the combination of the slotted reciprocating carriage with the first pair of folding rolls and knife *d*, as specified. Sixth, the combination of a folding knife, the edge of which is smooth, with one or more needle points projecting beyond, and in a line with the edge thereof, as shown. Seventh, securing the needle points to the folding knife, in the manner and for the purpose specified. Eighth, securing the needle point or points to the folding knife in such a manner as that they shall have their main support back of the edge of said knife, as specified. Ninth, so constructing paper folding machines as that the sheet while being folded shall occupy the same time, or nearly so, while passing from the position for receiving its first fold to that of the next and succeeding folds, as specified."

STENBEN T. BACON, of Boston, Mass., assignee through mesne assignment of John North, of Middleton, Conn., for a "Machine for folding paper."—Patented 15th April, 1856.—Re-issued 27th July, 1858.—Re-re-issued 8th February, 1859.

"Having described the construction and operation of the said machine, what I claim as the invention of the said North, and desire to secure by Letters Patent, is, the use of a stationary folding knife in a machine for folding printed sheets of paper, substantially as herein described, and as the invention of the said North. I also claim the combination of the folding knives *k*, *k*, with the reciprocating carriage, as set forth. And as the invention of the said North, I also claim giving to the reciprocating carriage its proper motion, by means of the crank *k*, and slotted connecting rod M, in combination with lever N and link P, substantially as described, and as the invention of the said North. I also claim the device for raising and depressing the fingers, as fully shown in Fig. 6, and as the invention of the said North. I also claim the combination of the folding and carrying nippers with the stationary folding knife, substantially as described, and as the invention of the said North. I also claim releasing the sheet from the nippers by means substantially as described, and as the invention of the said North. I also claim the circular knives c^1, c, for separating the sheets, when operated substantially in the manner described, and as the invention of the said North. I also claim the combination of the levers T and T^1, with double concentric rock shafts D and F, substantially in the manner and for the purposes set forth, and as the invention of the said North. I also claim the adjustable check, and the mode of releasing its hold by the advance of the nippers, as set forth."

STENBEN T. BACON, of Boston Mass., assignee through mesne assignment of Edward N. Smith, formerly of West Brookfield, Mass., for an "Improvement in machines for folding paper."—Patented 27th November, 1849.—Re-issued 7th January, 1851.—Re-re-issued 8th February, 1859.

"Having described my machine for folding and pressing paper, what I claim, and desire to secure by Letters Patent, is, first, forcing the paper required to be folded between the first set of folding rolls by the knife while the sheet is on the run. Second, forcing the paper to form the first fold between two converging and continuously-moving flexible yielding surfaces. Third, forcing the sheet of paper required to be folded upwards, for the purpose specified. Fourth, the use of a cord or curved edged knife, for the purpose of forcing the sheet between the folding rolls. Fifth, the stops for determining the proper position of the sheet for receiving its second and succeeding folds. Sixth, the combination of the carrying bands with a stop for regulating the sheet in proper position to receive its second and succeeding folds, as specified. Seventh, the combination of the rolls and endless aprons or bands with the guides, substantially as described. Eighth, so arranging the knives, aprons, and rolls in a paper-folding machine, as that the sheet may receive two or more parallel folds in succession. Ninth, so arranging the carrying and folding rolls in a paper-folding machine as that only a single series of endless aprons or bands shall remain in contact with the sheet to conduct it while it is receiving more than one fold. Tenth, the tightening pulleys and cords or bands hung upon the movable bar, for the purpose of giving proper direction to the sheet for receiving its next fold, after having received a parallel fold, as described. Eleventh, so conducting a machine for folding paper as that one or more folds may be omitted at pleasure, and the folded sheet delivered outside of the frame and working parts of the machine, by simply detaching the knives and removing the stops, as described. Twelfth, supporting the folding rolls in adjustable boxes, bearings, or frames, for the purpose of squaring them with the print or register of the sheet to be folded, and providing for the construction and expansion of the endless aprons or bands. Thirteenth, the movable guides for the purpose of squaring the knives to correspond with the print or register of the sheet. Fourteenth, conveying motion to any pair of folding rolls running at right angles to the preceding pair, by means of bevel gears placed at or near a center of a roll and between the aprons or bands, substantially as shown, whereby the machine is rendered more simple and perfect in its operation. Fifteenth, pressing the folded sheet previous to its delivery, by passing it between two converging and continuously moving yielding surfaces."

DAVID ALTER and SAMUEL A. HILL, of Freeport, Pa., assignors to themselves, John F. Johnson, of said Freeport, William T. Johnson, George S. Selden, and John L. Russell, of Pittsburgh, Pa., for an "Improvement in distillations of oils from coal."—Patented 27th April, 1858.—Re-issued 8th February, 1859.

"But what we do claim as our invention, and desire to secure by Letters Patent, is, the destructive distillation of coal or other bituminous substances, for the obtaining the liquid products thereof, in the form of what is known as coal oils, by the process herein-before described, viz., combining the use of a low temperature, not exceeding a low red heat, say about eight hundred and fifty degrees Fahrenheit, with the use of retorts so constructed as to have a rotary or other equivalent motion, for the purpose of agitating their contents, substantially in the manner and for the purposes herein-before set forth."

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, as translated or transcribed from Official Communications, may be found in the following Numbers of this Journal, published at 2*d*. each, or 3*d*. free by post:—

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Wurtemberg, No. 314.

List of Specifications, &c. published during the week ending 25th February, 1859.

No.	Price.	Subject-Matter.
1613	3*d.*	Manufacture of tin plates, &c.
1618	7*d.*	Aquaria tanks, &c.
1620	3*d.*	Manure.
1621	3*d.*	Ice safes.
1622	6*d.*	Manufacture of harrows.
1623	6*d.*	Repeating fire-arms.
1624	1*s.* 1*d.*	Machinery for the preparation of silk.
1625	3*d.*	Preparation of roofing, &c.
1626	7*d.*	Thrashing machines.
1627	3*d.*	Bankers' cheques.
1628	3*d.*	Manufacture and treatment of paper for the prevention of forgery.
1629	6*d.*	Collars for horses, &c.
1630	5*d.*	Feeder for administering food.
1631	3*d.*	Tempering rails and axles.
1632	3*d.*	Application of woven fabrics for printing.
1633	9*d.*	Fire engines and pumps.
1634	11*d.*	Repeating fire-arms.
1635	7*d.*	Joints for connecting pipes, &c.
1636	6*d.*	Windows, window blinds, and shutters.
1637	3*d.*	Ornamenting metallic and non-metallic surfaces.
1638	3*d.*	Ornamenting sticks.
1639	3*d.*	Moveable receiving apparatus for sewage.
1640	6*d.*	Crushing mills.
1641	6*d.*	Manufacture of bread, &c.
1642	3*d.*	Ornamenting the surfaces of raised pile fabrics, &c.
1643	3*d.*	Manufacture of fabrics for covering umbrellas and parasols.
1645	7*d.*	Steam boilers, &c.
1646	7*d.*	Propeller.
1647	3*d.*	Calculating machines.
1648	3*d.*	Vehicle for lamplighters.
1649	1*s.* 3*d.*	Locomotive or traction engines.
1650	3*d.*	Gas meters.
1651	7*d.*	Manufacture of beams, girders, ships' ribs, or frames, &c.
1652	8*d.*	Kiln for burning earthenware, &c.
1653	5*d.*	Hinge for hanging and closing doors, &c.
1654	8*d.*	Fastening envelopes and letters.
1655	6*d.*	Ordnance, fire arms, &c.
1656	10*d.*	Furnaces.
1657	3*d.*	Obtaining products from asphaltum.
1658	1*s.* 10*d.*	Machinery for spinning and doubling cotton, &c.
1659	5*d.*	Compasses.
1660	3*d.*	Rotary engine.
1662	10*d.*	Machinery for producing knitted fabrics.
1663	3*d.*	Laying submarine telegraphic cables.
1664	3*d.*	Separating the solid matter from sewage waters.
1666	3*d.*	Venetian blinds.
1670	3*d*	Cranes.
1678	7*d.*	Apparatus for regulating the flow of fluids.
1685	1*s.*	Apparatus for supporting and adjusting graving tools.
1686	3*d.*	Military cloaks, &c.
1929	7*d.*	Treatment of fibrous vegetable substances.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Free Patent Museum and Library, South Kensington.

Numbers of Visitors for the Week ending 26th February, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Feb. 21	Monday -	285	737	1022—Fine.
„ 22	Tuesday -	153	663	816— „
„ 23	Wednesday	112	75	187— „
„ 24	Thursday*	110	—	110— „
„ 25	Friday -	137	—	137— „
„ 26	Saturday -	213	—	213— „
	Total -	1010	1475	2485

* Museum closes at 5 o'clock.

Total number of visitors since the period of free daily admission (12th May, 1858) to 26th February, 1859, —71,649.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. Woodcroft.

Great Seal Patent Office,
Southampton Buildings.

Gallery of Portraits of Inventors, Discoverers, and Introducers of Useful Arts. —This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

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THE

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By Authority.

(*Registered for transmission abroad.*)

No. 539. FRIDAY, MARCH 4, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2898. To ISAAC KETCHUM, of 59, Canning Street, Liverpool, in the county of Lancaster, Merchant, for the invention of "Improvements in the method of roasting meat, poultry, game, by basting the same, and in the method of manufacturing the necessary apparatus for so doing."

On his petition, recorded in the Office of the Commissioners on the 18th day of December, 1858.

200. To LOUIS AUGUSTE DROUIN, of No. 95, Rue Popincourt, in the city of Paris, Joiner, for the invention of "Improvements in covering joinery work with metals or metallic alloys, and apparatus for the purpose."

On his petition, recorded in the Office of the Commissioners on the 22nd day of January, 1859.

270. To JEAN JUSTIN ALBERT DE BRONAC and AUGUSTIN JOSEPH MARTIAL DEHERRYPON, Civil Engineers, of Paris, in the empire of France, for the invention of "A new or improved process for treating metallic sulphurets, phosphurets, arseniurets, antimoniurets, and particularly sulphuretted ores of lead, antimony, copper, silver, zinc."

On their petition, recorded in the Office of the Commissioners, on the 29th day of January, 1859.

284. To RICHARD NEEDHAM, of Dukinfield, in the county of Chester, Engineer, for the invention of "An improved water-gauge for steam boilers."

On his petition, recorded in the Office of the Commissioners on the 1st day of February, 1859.

336. To THOMAS RUSSELL AYERST, of Newenden, in the county of Kent, Bookkeeper, for the invention of "Improvements in breech loading guns and other fire arms."—A communication from abroad, by James Hunter Sears, of Brantford, in the county of Brant, Upper Canada.

On his petition, recorded in the Office of the Commissioners on the 5th day of February, 1859.

353. To WILLIAM WALLER, of Chesterfield, in the county of Derby, Mechanical Engineer, for the invention of "Improvements in agricultural or farm implements or apparatus."—Partly a communication from William Rogers, residing at Toronto, Canada West.

On his petition, recorded in the Office of the Commissioners on the 8th day of February, 1859.

368. To GEORGE BOWER, of Saint Neot's, in the county of Huntingdon, Gas Engineer, for the invention of "Improvements in apparatus for the manufacture of illuminating gas."

On his petition, recorded in the Office of the Commissioners on the 9th day of February, 1859.

376. To WILLIAM ADOLPHE COVERT, of Long Island, New York, in the United States of America, for the invention of "An improved self-acting railway switch."—A communication from Charles L. Spencer, residing at Rhode Island, U.S.A.

On his petition, recorded in the Office of the Commissioners on the 10th day of February, 1859.

386. To HENRY BRUCE, of Kinleith Mill, Currie, in the county of Midlothian, North Britain, Paper Manufacturer, for the invention of "Improvements in apparatus for the manufacture of paper."

On his petition, recorded in the Office of the Commissioners on the 11th day of February, 1859.

396. To CHARLES ROBERT MOATE, of 65, Old Broad Street, in the city of London, Metal Broker, for the invention of "Improvements in the manufacture of nuts, screws, bolts, spikes, and other headed fastenings." — A communication from

abroad, by Joseph Gibbs, of Alexandria, in Egypt, Gentleman.

On his petition, recorded in the Office of the Commissioners on the 12th day of February, 1859.

417. To Charles Lewis Roberts, of Clerkenwell, in the county of Middlesex, for the invention of "The manufacture of an improved cigar."

419. To Frederick Walters, of Sheffield, in the county of Yorkshire, for the invention of "The application of the waste heat from puddling furnaces."

421. To John Paterson, of Wood Street, in the city of London, Manufacturer, for the invention of "Improvements in brace buckles and loops, and in braces."

423. And to George Bedson, of Manchester, in the county of Lancaster, Manager for Messrs. Richard Johnson and Brother, Wire Manufacturers, for the invention of "Improvements in joining wire for telegraphic and other purposes."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of February, 1859.

424. To Jean Furey Tourrier, of 41, Manchester Street, Manchester Square, Middlesex, for the invention of "Preventing oscillation of the last carriage of a railway train, and giving rigidity and steadiness throughout the train."

425. To Matthew Crawford, of Liverpool, in the county of Lancaster, Ship Chandler, Ship Painter, Ironmonger, &c., for the invention of "An improved anti-fouling metallic varnish, applicable to ships' bottoms and other similar purposes."

426. To Samuel Bailey, Mining Engineer, of Wednesbury, in the county of Stafford, for the invention of "Certain apparatus for preventing the skip in mine operations being pulled over the pulley on which the rope or chain works, to which such skip or cage may be attached, as well as preventing the skip or cage re-descending until put in motion for that purpose."

427. To Richard Cookson, of Layton Hawes, near Blackpool, in the county of Lancaster, Gentleman, and Charles William Homer, at Castle Hill, near Northwich, in the county of Chester, Civil Engineer, for the invention of "Improvements in machinery for making bricks, tiles, tubes, and other articles of plastic materials, and in the mode of jointing drain pipes."

428. To Charles Edward Wright, of Nottingham, Commercial Traveller, for the invention of "Improvements in means or apparatus employed in the nursing or treatment of infants."

429. To Richard Jennings Stevenson Pearce, of Fleet Street, in the city of London, Machinist, for the invention of "Improvements in weighing and dynamic machines."

430. To Pierre Marius Philip Bourjeaurd, of Davies Street, in the county of Middlesex, late Surgeon in the French Navy, for the invention of "An improved apparatus for supporting the womb."

431. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved mowing machine or grass harvester."—A communication from abroad by John Peter Adriance, of the United States of America.

432. To Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improvement in the construction of brushes."—A communication from abroad by Ira W. Shaler, of the United States of America.

433. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved machinery for making bricks."—A communication from abroad by Mr. A. Milch, of Berlin.

434. To William H. Horstmann, of the city of New York, in the county of New York, and the state of New York, U.S.A., for the invention of "Telegraphic cables, and the mode of constructing the same and laying them down."

435. To John James Russell, of Wednesbury, in the county of Stafford, for the invention of "Improvements in machinery used for heating and welding the edges of the plates used in the manufacture of cylinders and other articles."

436. To William Archdall O'Doherty, of 5, Eastcheap, in the city of London, for the invention of "An improvement in black lead pencils and pencil cases."—A communication from abroad, by Daniel Dunham Sweet, of Providence, Rhode Island, United States of America.

437. To Jules Seguin, Doctor of Medicine, of 4, Grande Rue de Gravelle à St. Maurice (Seine), France, for the invention of "Improvements relating to the employment of moving power arising from the tides and its application to manufacturing, agricultural, and other purposes."

439. To Joseph Breeden, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "New or improved machinery for the manufacture of taps or stopcocks, and fittings for gas, steam, and water pipes."

440. And to John Eason, of Oxford Street, in the county of Middlesex, for the invention of "Improvements in apparatus applicable to tanning, dyeing, and obtaining extracts from vegetable, animal, and mineral substances."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of February, 1859.

441. To Samuel Thomas Cooper, of Upper Clapton, Gentleman, for the invention of "Improvements in the use and application of artificial light."

443. To Henry Young Darracott Scott, of Brompton Barracks, Chatham, in the county of Kent, Captain in the Royal Engineers, for the invention of "An improvement in the manufacture of cement."

444. To Benoit Saillard, of Lamb's Conduit Street, in the county of Middlesex, Electrotyper, for the invention of "An improved mode of obtaining printing plates from collodion pictures."

445. To Pierre Edouard Fraissinet, of Paris, in the empire of France, Civil Engineer, for the invention of "A new or improved structure of iron, applicable for paving, flooring, bridges, gratings, girders, and other like purposes."

446. To Thomas Cattell, of 30, Euston Square, in the county of Middlesex, M.D., for the invention of "Improvements in treating and purifying gutta percha."

447. To Frederick William Emerson, of New Charlton, in the county of Kent, Mining Engineer and Metallurgical Chemist, for the invention of "Improvements in the treatment of certain ores of lead, and obtaining from them valuable primary and secondary products."

449. And to John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for propelling and steering vessels and other floating craft."—A communication from John Eton, residing at Belleville, in the province of Upper Canada, Engineer.

On their several petitions, recorded in the Office of the Commissioners on the 17th day of February, 1859.

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450. To John Jenkins Cole, of No. 24, Essex Street, Strand, in the county of Middlesex, for the invention of "Improvements in venetian and other suspended blinds, and in the method of hanging and working them."

451. To Charles Garton, of the city and county of Bristol, Brewer, for the invention of "An improved method of treating cane sugar, in order to render it fitter to be employed in brewing, distilling, and wine and vinegar making."

452. To Henry Swaisland, of 54, Great Sutton Street, Clerkenwell, in the county of Middlesex, Mathematical Instrument Maker, for the invention of "Improvements in box sextants."

453. To George Wallis, of Stretton, near Penkridge, in the county of Stafford, Artist, for the invention of "A new or improved method of engraving, applicable to the production of printing surfaces and the ornamentation of metallic and other surfaces."

454. To George Kammerer, of Lombard Street, in the city of London, Merchant, for the invention of "Improved gearing for gins or horse mills, applicable for grinding, winnowing, and other purposes requiring motive power."—A communication from abroad by Messrs. Lotz, of Pouancé (Main et Loire), France.

455. To William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in emptying cesspools, and in raising other fluid and semi-fluid matters." — A communication from abroad by Pierre Théophile Joly, junr., of Paris.

456. To William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in pressure gauges."—A communication from abroad by Louis Droissait, Mechanician, of Paris.

457. And to John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the manufacture of textile fabrics, and in the machinery or apparatus employed therein."—A communication from Monsieur Amans de Chavagneur, residing at Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 18th day of February, 1859.

458. To Pierre Antoine Joseph Dujardin, of the town of Lille, France, Physician, for the invention of "Improvements in the printing apparatus of railway telegraphs."

459. To Alphonse René Le Mire de Normandy, 67, of Judd Street, Brunswick Square, in the county of Middlesex, Analytical Chemist, for the invention of "Improvements in an apparatus for obtaining fresh water from salt water."

461. To William Clay, of Liverpool, in the county of Lancaster, Iron and Steel Manufacturer, for the invention of "Improvements in the manufacture of deck and other beams, and of angular and other bars of various forms."

463. To Samuel Wheatcroft, of Brudenell Place, New North Road, county of Middlesex, Engineer, for the invention of "Improvements in the method of, and the means for, uniting lace to blond and other fabrics, and also in the apparatus used for manufacturing or converting the same into bonnet and cap fronts, rouches, and such like similar articles of millinery."

464. To Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved apparatus for manufacturing the strands of wire-ropes." — A communication from Jean Baptiste Pieux-Aubert, residing at Clermont-Ferrand (Puy des-Dôme), in the empire of France.

465. To Charles Frederic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved carding machine." —A communication from Victor Madeline Morin, residing at Athis, Orne.

467. And to Ferdinand Pierre Jean Van den Ouwelant, of Paris, France, Gentleman, for the invention of "Improvements in apparatuses to be applied to fire places for obtaining a more complete combustion of the fuel employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of February, 1859.

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468. To George Paul, of Glasgow, in the county of Lanark, North Britain, Mechanic, for the invention of "Improvements in spindles and flyers."

469. To Obed Blake, of Blackwall, in the county of Middlesex, for the invention of "Improved machinery or apparatus used in the manufacture of glass."

470. To Gilbert McCulloch, of the city of Manchester, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for spinning, doubling, and throwing silk, and doubling other fibrous materials."

471. To Thomas Wilson, of Birmingham, in the county of Warwick, Engineer, for the invention of "Improvements in the manufacture and construction of ordnance."

472. To Alfred Belpaire, Engineer, of the city of Brussels, in the kingdom of Belgium, for the invention of "Improvements in the reversing gear of locomotive and other steam engines."

473. To George Humphrey, of Deptford, in the county of Kent, Engineer, for the invention of "Improvements in meters for measuring fluids and gases."

475. To Robert Jobson, of Wordsley, in the county of Stafford, Ironfounder, for the invention of "Improvements in supplying water or other fluid to axletree boxes and other journal bearings to lubricate the same."

477. And to Richard William Johnson, of Oldbury, in the county of Worcester, Railway Carriage Builder, and William Stableford, of the same place, Manager, for the invention of "Improvements in axle boxes."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of February, 1859.

479. To Thomas Smith, of Chatteris, in the county of Cambridge, Watchmaker, for the invention of "Floating wheels for driving machinery."

480. To William Soelman, of 3, Bennett Street, (W.), in the county of Middlesex, for the invention of "Improvements in the construction of propellers."

481. To Joseph Grimond, of the city of Manchester, in the county of Lancaster, Manufacturer, for the invention of "Improvements in the treatment and preparation of jute and other fibrous materials, and in machinery or apparatus employed therein."

482. To James Curtis, of Drury Lane, in the county of Middlesex, for the invention of "The manufacture of military sash net, and machinery to be employed therein."

484. To Joseph Hine, of Clerkenwell, in the county of Middlesex, Fancy Cabinet Manufacturer, for the invention of "An improved book slide."

485. To Edward Lund, of Manchester, in the county of Lancaster, Gentleman, for the invention of "Certain improvements in the manufacture of fabrics or textures to be used in the construction of umbrellas and parasols."

486. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Method of fixing tannin upon textile fibres, and the employment thereof in dyeing black and dark colors."—A communication from M. Verguin, residing at Lyons, France.

487. And to Thomas Richard Harding, of Leeds, in the county of York, Hackle Pin Manufacturer, for the invention of "Improvements in the manufacture of card surfaces to be used in preparing fibrous materials."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of February, 1859.

489. To Augustus William Smethurst, of Chorley, in the county of Lancaster, Cotton Spinner and Manufacturer, for the invention of "Improvements in machinery for driving looms for weaving."

491. To William Ashton, of Heaton Norris, in the county of Lancaster, Manager, for the invention of "Improvements in gas regulators."

493. To Uriah Scott, of Camden Town, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in carriages and various parts of the same, which parts may be applied to vehicles of any description."

495. To Samuel Rodgers Samuels, of Nottingham, for the invention of "Improvements in twist lace machines."

497. And to George Turnbull, of Calcutta, in the province of Bengal, in the East Indies, Civil Engineer, for the invention of "Improvements in the permanent way of railways."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of February, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given that the petition of

524. François Brignoles, residing at No. 3, Duke Street, Adelphi, London, county of Middlesex, praying for Letters Patent for the invention of "The disinfection and rectification of alcohols, by the separation of the essential and other oils from the alcohol,"—a communication from Mr. St. Cyr Prieur, now residing in Avignon, Town, France,—was deposited and recorded in the Office of the Commissioners on the 28th day of February, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

4th March, 1859.

2006. William Henry Child, of Providence Row, in the county of Middlesex, Brush Manufacturer, for an invention of "Improvements in hair and skin brushes."—Dated 4th September, 1858.

2027. Bartholomew Hockin, of Gateshead Iron Works, Gateshead-on-Tyne, for an invention of "Apparatus for repairing and fitting dock gates and their machinery." — Dated 8th September, 1858.

2031. Andrew Lamb, of Southampton, and John White, of Cowes, for an invention of "Improvements in life boats."—Dated 8th September, 1858.

2041. John Rowley, of Grosvenor Terrace, Camberwell, in the county of Surrey, for an invention of "A new compound-material, applicable as a substitute for leather and leather-cloth, in the manufacture of various useful and ornamental articles."—Dated 9th September, 1858.

2059. William Toshach, of the Railway Works Bristol Road, Gloucester, in the county of Gloucester, Engineer, for an invention of "Improvements in pile driving machines." — Dated 10th September, 1858.

2066. Joseph Lester Hinks, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "A new or improved tap or cock for drawing off and filtering liquids."—Dated 11th September, 1858.

2077. Joshua Turner, of Gresham Street, in the city of London, Hatter, for an invention of "Improvements in the manufacture of hats."—Dated 13th September, 1858.

2401. Giovanni Mariano Casentini and James Orme Barnard, both of Hercules Buildings, Lambeth, in the county of Surrey, Architectural

Modellers and Copartners in Trade, for an invention of "A certain composition to be used in the manufacture of articles composed of or made with plaster of Paris and other similar substances."—Dated 28th October, 1858.

2804. John Vickers Scarborough, of Belfast, in the county of Antrim, Ireland, Gutta Percha Boot Manufacturer, for an invention of "Improvements in apparatus for the manufacture of boots and shoes."—Dated 7th December, 1858.

2984. Hippolyte Charles Vion, of Paris, in the empire of France, Civil Engineer, for an invention of "A new mode of obtaining atmospheric electricity and terrestrial electricity, and its industrial applications, and in apparatus for the same."—Dated 30th December, 1858.

50. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for boring or piercing rocks, applicable also to the dressing or working of stone, and as a power hammer generally." — A communication from Monsieur Germain Sommeiller, residing at Turin, in the kingdom of Sardinia, Engineer.—Dated 6th January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 2nd March, 1859, inclusive.*)

28th February.

528. John Reading, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "New or improved fastenings for attaching watch-keys, seals, watches, lockets, articles of jewellery, and ornamental articles of dress in general, to chains, and for securing the catches of brooches." —Dated 1st March, 1856.

534. Ferdinand Kaselowsky, of Bielefeld, in the kingdom of Prussia, for an invention of "Improvements in winding yarns and thread of flax and hemp in spinning and twisting machines."—Dated 1st March, 1856.

1st March.

567. Auguste Newburger, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, for an invention of "Extraction of oil from a vegetable substance not hitherto so used."—Dated 6th March, 1856.

2nd March.

543. John Edward Hodges, of Leicester, in the county of Leicester, Manufacturer, for an invention of "Improvements in machinery for the manufacture of looped and textile fabrics."—Dated 3rd March, 1856.

545. John Edward Hodges, of Leicester, in the county of Leicester, Manufacturer, for an invention of "Improvements in machinery for the manufacture of looped fabrics."—Dated 3rd of March, 1856.

FOREIGN PATENTS.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1859.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

175. François Frédéric Thomas, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 17th October, 1855, for "A system of brushes."—Dated 13th January, 1859.

176. Henri Meyer, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 26th August, 1858, for "Improvements in power-looms."—Dated 13th January, 1859.

177. Janvier, senr. and junr., of 43, Rue du Temple, Paris, a Certificate of Addition to his Patent of 11th November, 1858, for "A sowing and planting machine."—Dated 13th January, 1859.

178. Hippolyte Bellident, domiciled Place et Hôtel Louvois, Paris, for "A kind of caloriferestove."—Dated 13th January, 1859.

179. Amand Pillichody, of 5, Rue de Marivaux, Paris, a Certificate of Addition to his Patent of 18th January, 1858, for "A machine for mortising wood, &c."—Dated 13th January, 1859.

180. François Joseph Cuvillier, of Arras, département du Pas de Calais, a Certificate of Addition to his Patent of 2nd October, 1858, for "A press with gearings."—Dated 10th January, 1859.

181. Louis Lefebvre, of 65, Rue des Bons-Enfants, Rouen, département de la Seine Inférieure, for "A kind of Venetian blinds and shutters of shops."—Dated 12th January, 1859.

182. Jules Renault, of Bolbec, département de la Seine Inférieure, for "An apparatus for feeding steam boilers, and for indicating their water-level." —Dated 14th January, 1859.

* For the French Patent Law see No. 228 of this Journal.

183. Eugène Decoprez, of 17, Rue St. Laurent, Rouen, département de la Seine Inférieure, for "Goffering ornamental designs on leather cloth."—Dated 14th January, 1859.

184. Pichot and Malapert, of Poitiers, département de la Vienne, a Certificate of Addition to their Patent of 9th September, 1856, for "Manufacture of tissue-paper for filters, &c."—Dated 14th January, 1859.

185. François Charles Bierlein, of Lingdsheim, département du Bas Rhin, for "A system of blast-pipes for forges."—Dated 14th January, 1859.

186. Emmanuel Verguin, of 36, Rue de l'Arbre-Sec, Lyon, département du Rhône, for "A mode of fixing tannine on textile fibres."—Dated 15th January, 1859.

187. Pierre Duchamp, of 17, Rue du Commerce, Lyon, département du Rhône, a Certificate of Addition to his Patent of 13th October, 1858, for "A system of continuous matches and a mechanical box for lighting the same, &c."—Dated 15th January, 1859.

188. Fabius Mainardi, of 21, Place Tholozan, Lyon, département du Rhône, for "A spinning wheel by means of which the thread is thrown and measured by the same operation,"—Dated 17th January, 1859.

189. Jean Gérard Jules Tenbrinck, of Rue des Tanneurs, Epernay, département de la Marne, a Certificate of Addition to his Patent of 23rd October, 1857, for "A self-acting smoke-consuming fire-place, &c."—Dated 17th January, 1859.

190. Pierre Aurèle Paquerée, of Castillon-sur-Dordogne, département de la Dordogne, a Certificate of Addition to his Patent of 18th January, 1858, for "An automatic apparatus called 'statmograph, &c."—Dated 18th January, 1859.

191. Turon and Miss Jeanne Casson, of Tarbes, département des Hautes Pyrénées, for "An hydraulic motor."—Dated 17th January, 1859.

192. Frédéric Comte, of Maizières-les-Toul, département de la Meurthe, for "A machine for sawing hard stone, &c."—Dated 18th January, 1859.

193. Constant Provins, of Valenciennes, département du Nord, for "An apparatus for heating by means of surfaces."—Dated 20th January, 1859.

194. Constant Provins, of Valenciennes, département du Nord, for "An apparatus for heating by direct action."—Dated 20th January, 1859.

195. Paul Bigorry, of 13, Rue du Loup, Bordeaux, département de la Gironde, for "Suspending lamps."—Dated 18th January, 1859.

196. Charles Louis Sircoulon, of Valentigny, département du Doubs, for "An apparatus called 'equipoised press,' applicable to spinning machines."—Dated 19th January, 1859.

197. Jean Renaud, of 14, Rue des Remparts, Bordeaux, département de la Gironde, for "A system of pumps worked by the speed of vessels."—Dated 19th January, 1859.

198. Calvin Fletcher, represented by Yapp, of 6, Rue Montpensier, Paris, for "A method of condensing steam, and of driving the heat and water of condensation or steam back into the boilers."—Dated 13th January, 1859.

199. Ernest Théodore Assegond, represented by Pagès, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of buttons."—Dated 13th January, 1859.

200. Louis Henry Pasquier, represented by Pagès, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of iron chains for the purpose of preventing accidents."—Dated 13th January, 1859,

201. Adélaide Alexandrine Pouget, represented by Pagès, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of stoppers for perfumery articles."—Dated 13th January, 1859.

202. Vaillant, Marsillon, and Lemaire, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in apparatus for and means of preserving ice, fish, &c."—Dated 13th January, 1859.

203. Charles Ferdinand Achille Doucet, of 22, Rue Chapon, Paris, a Certificate of Addition to his Patent of 6th October, 1857, for "Pins, sets of gems, and jewellery, &c."—Dated 14th January, 1859.

204. Louis Henry Gloton, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A shooting mechanism combined with a speaking doll."—Dated 14th January, 1859.

205. Evan Leigh, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in machines for carding cotton and other filamentous substances."—Dated 14th January, 1859.—(English Patent, 9th February, 1872.)

206. Boitel and Boulanger, domiciled with Beluze, of 3, Rue Baillet, Paris, for "A system of mechanical lever."—Dated 14th January, 1859.

207. Fiaux and Gaudel, of 75, Rue Ménilmontant, Paris, for "A system of suspending lighting apparatus."—Dated 14th January, 1859.

208. Pierre Fosse, of 106, Route d'Orléans, Montrouge, a Certificate of Addition to his Patent of 8th December, 1858, for "Printed brick flagstones of baked clay."—Dated 14th January, 1859.

209. Jules François Victor Mouilleron, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An improved telegraphic apparatus."—Dated 14th January, 1859.

210. Jean Philippe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 25th October, 1856, for "A dyeing process."—Dated 14th January, 1859.

211. Lauret and Palicaraki, the former of 136, Faubourg Poissonnière, the latter of 19, Rue d'Enghien, Paris, for "A filamentous substance."—Dated 14th January, 1859,

212. Désiré Valentin Monchicourt, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Penholders, pencil cases, &c. combined with a letter weigher,"—Dated 14th January, 1859.

213. Joseph Hippolyte Poyllain, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "So-called 'buckles with overlappings.'"—Dated 14th January, 1859.

214. Henry Schottlander, of 14, Rue Michel le Comte, Paris, a Certificate of Addition to his Patent of 26th June, 1858, for "Puzzle boxes and cases."—Dated 15th January, 1859.

215. Augustin Marie Herland, of 138, Rue Ménilmontant, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "A system of mounting straps on drums and pulleys."—Dated 15th January, 1859.

216. Jules Joseph Imbs, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 8th September, 1858, for "Manufacture of a tissue with waddings."—Dated 15th January, 1859.

217. Thomas Tertius Chellingworth, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A high-pressure steam-engine."——Dated 15th January, 1859.—(English Patent, expiring 8th July, 1872.)

218. Pierre Simon Bouet, of 40, Rue des Acacias, Montmartre, for "Using pumice-stone in the manufacture of smoking pipes."—Dated 15th January, 1859.

219. Léon Leméant, of 129, Rue de Sèvres, Paris, a Certificate of Addition to his Patent of 25th June, 1856, for "Converting weight into motive and centrifugal power."—Dated 15th January, 1859.

220. Aristide Cavaillé-Coll, of 94 et 96, Rue de Vaugirard, Paris, for "Improvements in the construction of organs,"—Dated 15th January, 1859.

221. Augustin Lejeune, of 57, Rue de la Marc, Belleville, for "An Archimedean motor."—Dated 15th January, 1859.

222. Chaudron and Co., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Manufacture of artificial whalebone."— Dated 15th January, 1859.

223. Frédéric Sargent, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A machine for making pins."—Dated 15th January, 1859.

224. Jean Baptiste Vital Boujut, of 9, Rue Ste. Appoline, Paris, for "A degrading apparatus for photographic printing."—Dated 15th January, 1859.

225. François Philippe Ferro, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of paper pulp."—Dated 15th January, 1859.

226. Abel Joseph Antoine Allié, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for dividing rules and any instruments."—Dated 15th January, 1859.

227. Louis Julién Gastinne, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 5th March, 1853, for "Breech-loading guns."—Dated 15th January, 1859.

228. Louis Alexandre Trézel, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 31st May, 1856, for "A process for obtaining white, soft, and dry yeast."—Dated 15th January, 1859.

229. Alexandre Felix Ouarnier, of 45, Rue des Vinaigriers, Paris, a Certificate of Addition to his Patent of 27th November, 1858, for "Improvements in the manufacture of cartridges for breech-loading guns."—Dated 17th January, 1859.

230. Etienne Joseph Mathurin Galabrun, of 8, Rue Chartillon, Paris, for "Hollow plates for hydraulic presses."—Dated 17th January, 1859.

231. Victor Florian Duport, of 28, Place Royale, Paris, for "A luminous registering lamp-shade for billiard tables, exchanges, auction rooms, &c."—Dated 17th January, 1859.

232. Jean Aubine, of 30, Rue Grégoire de Tours, Paris, a Certificate of Addition to his Patent of 31st March, 1858, for "An electric clock-work with a double direction."—Dated 17th January, 1859.

233. Salomon Sturm, of 4, Rue Claude-Villefaux, Paris, for "A physical apparatus, called 'coffin.'" Dated 17th January, 1859.

234. Charles West, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in insulating and coating metallic wire."—Dated 17th January, 1859.—(English Patent, expiring 18th October, 1872.)

235. Charles Wye Williams, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the means of increasing the generation of steam in boilers of locomotive and other engines."—Dated 17th January, 1859.

236. Joseph Croisy, of 76, Rue du Pré, Belleville, a Certificate of Addition to his Patent of 11th August, 1857, for "A machine for manufacturing bolts."—Dated 17th January, 1859.

237. Messrs. Cœuille, of 70, Rue Amelot, Paris, for "A divided registering circle, with a double sight, to be used as a counter in games."—Dated 17th January, 1859.

238. François Herfonse Léon Brisse, of 33, Quai Voltaire, Paris, a Certificate of Addition to his Patent of 20th January, 1858, for "A page (of dresses)."—Dated 17th January, 1859.

239. Armand Charles Messager, represented by Richard, of 45, Rue St. Sébastien, Paris, for "Manufacture of brush carpets in plain or cocoa colours, with frames of variegated colours."—Dated 17th January, 1859.

240. Louis Berthault, represented by Richard, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of parchment."—Dated 17th January, 1859.

241. Augustin Dieudonné Levasseur, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Moulding and ornamenting cameos and similar objects."—Dated 17th January, 1859.

242. Jean Bianchi, of 78, Rue du Temple, Paris, for "A water level."—Dated 18th January, 1859.

243. Frantz and Mary, of 27, Rue St. Louis en l'Isle, Paris, for "A system of wicks for composite and tallow candles."—Dated 18th January, 1859.

244. Benjamin Nicoll, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in circular saws and cutters."—Dated 18th January, 1859.

245. Hippolyte Gugnon, of 158, Grande Rue à la Chapelle, for "A system of balances."—Dated 18th January, 1859.

246. Jacques Marie Edouard Masson, of 3, Rue Monthabor, Paris, for "Submarine boats."—Dated 18th January, 1859.

247. Pierre Georges, domiciled with Lebreton, of 34, Rue Montagne, Paris, for "A polishing machine."—Dated 18th January, 1859.

248. Alexandre Vallet, of Jouy-sur-Mourin, département de Seine et Marne, for "An apparatus for manufacturing continuous paper."—Dated 17th January, 1859.

249. Jules Joseph Brebant, of Mouy, département de l'Oise, for "Covering roofs with scantling tiles."—Dated 18th January, 1859.

250. Landre, Gras, and Co., of 25, Cours Bonaparté, Marseille, département des Bouches du Rhône, a Certificate of Addition to their Patent of 27th May, 1858, for "A system of lighting by means of mineral substances."—Dated 19th January, 1859.

251. William Langshaw, represented by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, for "A system of looms or apparatus used in the manufacture of open-worked, knitted, or looped tissues."—Dated 19th January, 1859.

252. Jean Baptiste Martin-Gubrian, of Tarare, département du Rhône, for "A machine for sorting silk and other textile substances in skeins."—Dated 19th January, 1859.

253. The Anzin Mining Company, represented by Jean Lebret, of Denain, département du Nord, for "A system of coke-kilns for the manufacture of coke from smith's coal, and from a mixture of all kinds of coal."—Dated 20th January, 1859.

254. Louis Brunier, of 74, Rue de la Charité, Lyon, département du Rhône, for "A compressed air motor, with an ascending and successive pressure, whereby the primitive speed of the compressed air is doubled."—Dated 20th January, 1859.

255. Jean Antoine Bouchet, of St. Ambroix, département du Gard, for "Gutta percha hats for miners."—Dated 20th January, 1859.

256. Claude Porte, represented by Carpinetti, Place du Marché, Draguignan, département du Var, a Certificate of Addition to his Patent of 18th May, 1857, for "A distilling kitchen for vessels."—Dated 21st January, 1859.

257. Louis Charles Marie Lac de Bosredon, of 212, Cours Napoléon, Bordeaux, département de la Gironde, for "A calculating instrument."—Dated 21st January, 1859.

258. Jules Mary, of Sedan, département des Ardennes, for "A weaving machine."—Dated 22nd January, 1859.

259. Edmond Vincent Billiotte, of 17, Rue Notre-Dame, Troyes, département de l'Aube, for "A tinder-box with capsules."—Dated 22nd January, 1858.

260. Evrard, of Douai, département du Nord, for "Using reactive agents for purifying natural or artificial sugar-solutions."—Dated 22nd January, 1859.

261. Pierre Fillon, of Ste. Foy-les-Lyon, département du Rhône, for "A system of harness for looms."—Dated 22nd January, 1859.

262. Abraham Lindo, of 1, Rue St. Louis, Batignolles, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvemeuts in the manufacture of soap."—Dated 18th January, 1859.

263. Nicolas Ernest Théophile Petin, of 26, Rue des Bourguignons, Paris, for "A smoke-consuming grate."—Dated 18th January, 1859.

264. Louis Henry Poully, with Pasqualle, of 5, Rue de l'Echelle, Paris, for "A page of ladies' dresses."—Dated 18th January, 1859.

265. Jules François Victor Mouilleron, of 24, Place Dauphine, Paris, a Certificate of Addition to his Patent of 26th March, 1858, for "Improvements in electric telegraphs, &c."—Dated 19th January, 1859.

266. John Ahsbahs, domiciled with Faber, of 12, Boulevart de Strasbourg, Paris, for "A machine for grooving penholders."—Dated 19th January, 1859.

267. Louis Victor Leprince, represented by Vignes, of 31, Rue Mauconseil, Paris, for "Transparent foot coverings, called 'cameleon.'"—Dated 19th January, 1859.

268. Raveneau and Barbier, represented by Escoffier, of 8, Rue des Prouvaires, Paris, for "A composition called 'alabaster biscuit.'"—Dated 19th January, 1859.

269. Pierre Désiré Prudhomme, of 2, Rue St Martin, Paris, for "An indicating apparatus for exchanges and markets."—Dated 19th January, 1859.

270. Lion, Levy, and Compagnie (Société), represented by Léon, of 9, Rue du Reynaud St. Sauveur, Paris, for "Hygienic overshoes with concave heels."—Dated 19th January, 1859.

271. Constant Julien Prunier, of 2, Rue du Grand Hurleur, Paris, for "A musical liqueur-case."—Dated 12th January, 1859.

272. Jacques Juste Sandragné, of 8, Rue Grenier St. Lazare, Paris, for "A motor."—Dated 19th January, 1859.

273. Napoléon Jean Tronchon, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Construction of cast and wrought iron houses."—Dated 19th January, 1859.

274. Jacques Michel Beauge, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the constructiou of watering pots."—Dated 19th January, 1859.

275. Goubaud, Guyot-Delisle, and Thourel, of 8, Rue du Nord, Paris, for "A liquid for preserving the hair."—Dated 19th January, 1859.

276. Hippolyte Monier, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 5th November, 1855, for "Improvements in lighting apparatus."—Dated 19th January, 1859.

277. Jacob Levy and H. Simon, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Buckles without tongues, called 'imperial buckles.'"—Dated 19th January, 1859.

278. Hermann Schultz, represented by Tolhausen, of 35, Boulevart Bonne-Nouvelle, Paris, for "Improvements in work-bags, travelling bags, and similar articles."—Dated 19th January, 1859.

279. Augustin Placide Joseph Monnier, of 26, Rue Fontaine-au-Roi, Paris, for "A draining pump."—Dated 20th January, 1859.

280. Viellard-Migeon and Co., represented by Daubréville, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 6th February, 1858, for "An apparatus for feeding machines used in the manufacture of wood screws."—Dated 20th January, 1859.

281. Gerard Uhlhorn, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A machine for grinding fillet-cards."—Dated 20th January, 1859.

282. Blanzot and Vanderbergh, the former of 8, Rue Thévenot, Paris, the latter of Passy, for "A system of heating."—Dated 20th January, 1859.

283. Jean Baptiste Antoine Monnier, domiciled with Foucault, of 1, Rue Réaumur, Paris, a Certificate of Addition to his Patent of 31st March, 1857, for "A machine for stopping railway trains, &c."—Dated 20th January, 1859.

284. Jean Claude Marie, of 61, Faubourg St. Denis, Paris, for "A system of registering."—Dated 20th January, 1859.

285. Paul Briolay, of 19, Rue Rambuteau, Paris, a Certificate of Addition to his Patent of 16th September, 1858, for "A break for carriages."—Dated 20th January, 1859.

286. Etienne Louis Gabaudan, of 17, Place Royale, Paris, a Certificate of Addition to his Patent of 11th November, 1851, for "A tangent comotor."—Dated 20th January, 1859.

287. Jean Jules Paillard, of 5, Rue des Vielles-Etuves, Paris, for "Rooms for mixing, bagging, and preparing flour for baking bread and pastry."—Dated 20th January, 1859.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 15th February, 1859, and each bearing that date.

No. 22,924. Geo. C. Aiken, of Nashua, N. H., for an "Improvement in bee-hives."

"I do not claim the invention of a hive having a main chamber placed between a feeding chamber and one or more honey boxes; but what I do claim, is, the arrangement of the boxes G, G¹, H, H¹, in the hive so as to form, with the case thereof, the auxiliary or bell glass chambers K, K, K, K, in manner as described."

No. 22,925. Joseph Armstrong, of Woburn, Mass., for an "Improvement in treatment of hides and skins."

"What I claim is, the above described improvement on my herein-before mentioned patented process of treating hides, or, in other words, I claim, in combination with the application and use of a press, in connection with the impregnation of the hide with grease, by a peglined cylinder, or any equivalent means, the employment of scraps of hide, or other suitable absorbents, in the press and against the edges and other necessary parts of the hides, and so as, during the operation of the press, to absorb the liquor from such edge or parts on or in which it would be likely to remain, as specified."

No. 22,926. H. H. Baker, of New Market, N. J., for an "Improved arrangement of the feed roller in wood planing machines."

"I do not claim the cutter wheel or disk F in itself considered, nor do I claim the adjustable gauge J, for they have been previously used; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, arranging the feed roller N, substantially as shown, to wit, connecting it with a vibrating shaft K, box L, slide O, spring P, and with necessary gearing, so that said roller may be kept to the work, or moved out free from it without stopping the working or running parts of the machine."

No. 22,927. Frederick H. Bartholomew, of New York, N. Y., for an "Improvement in hydrauts."

"Having described my improvements, what I claim as my invention, and desire to secure by Letters Patent, is, first, I claim the combination of the valve E, with the main valve and its fixed valve seat C, the whole constructed, arranged, and operating substantially as and for the purposes described. Second, I claim the arrangement of chamber "D," "D," within the trunk of the hydrant surrounding the seat of the main valve, having a waste passage at the bottom, substantially as and for the purposes described. Third, I claim the arrangement of the waste passage, the waste plug and rod in combination substantially as and for the purposes described."

No. 22,928. Moses Bales, of Big Plain, Ohio, for an "Improvement in mole plough."

"What I claim as my invention, and desire to secure by Letters Patent, is, the adjustable mole ploughs (D, d, d^1, d^{11}, g, g^1, e,) upon a cutting shaft (A), arranged and operating substantially as and for the purposes set forth."

No. 22,929. Chas. E. Bishop, of Brooklyn, N. Y., for an "Improvement in reefing and furling sails."

"I claim, firstly, the employment of supplementary sheets to the top-sails and other upper square sails of a vessel, in order that said sails may be kept more "flat," and that the strain upon the ends of the yard may be lessened, as set forth. Secondly, I claim constructing "top sails" in the manner herein described, that is to say, with supplementary sheets, clew-lines and leech ropes, and with a central tackle, by the employment of which, in due order, as set forth, the "top sail" may be reduced and secured in successive portions, substantially as described."

No. 22,930. Isaac W. Bragg, of Cincinnati, Ohio, for an "Improved carpet stretcher."

"I claim as new, and of my invention herein,—1st, the dog E, e, operating substantially as described, to attach the stretcher to that part of the floor next the wall, toward which the carpet is to be stretched. 2nd, the combination and arrangement of the trip lever F, for disengaging the dog, as set "forth." 3rd, the combination and arrangement of the apron C, feet B, and slides G, operating substantially as described, in combination with the rake H, to prevent the teeth h from grazing the floor. 4th, the combination and arrangement substantially as set forth, of the stock A, dog E, e, driver H, I, K, and actuating worm M, operating in the manner and for the purpose explained."

No. 22,931. Joseph H. Brinton, of West Chester, Pa., for an "Improved method of operating yielding feed rollers."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to

secure by Letters Patent, is, a pair of feed rolls, one of which is yielding, and both driven by the same screw shaft, and in gear with it at all times, substantially in the manner herein described."

No. 22,932. Thos. W. Brown, of Boston, Mass., for an "Improvement in skates."

"I claim the rocker and angular heel or straight edge runner, made substantially in manner as described, and applied to the bearing plates or their equivalent, so as to be capable of being reversed with respect to the same, and used with either edge downward as may be desirable. I also claim the application of the heel plate to the heel screw, so as to be adjustable on or with reference thereto, substantially in manner and for the purpose as described."

No. 22,933. James D. Bruner, of Alton, Ill., for an "Improvement in stoves."

"What I claim as new, and desire to secure by Letters Patent, is,—1, connecting and arranging with an oven which has no bottom, and between which and the passages of the products of combustion, there is no communication, and the fire box of the stove, air chambers or cells, as and for the purposes herein set forth; and 2d, combining with a detachable grate surface, the detachable air cells, or chambers as herein described."

No. 22,934. S. S. Burlingame, of Warwick, R. I., for an "Improvement in instruments for threading needles."

"What I claim as new, and desire to secure by Letters Patent, is, the needle threader, consisting of an internally barbed elastic pronged fork, substantially as herein described."

No. 22,935. Adam Scott Cameron, of New York, N. Y., for an "Improved cut-off valves for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the trip hinged valves, with their hook rods and appendages for operating them, or the equivalents thereof, substantially as described, in combination with the slide valve, substantially as described, for cutting off the steam in steam engines, as described. I also claim, in combination with the slide and the trip hinged valve, operated substantially as described, the so-forming the seat of the slide valve, relatively to the steam passages in the slide valve, substantially as described, as to admit the steam to the under face of the hinged valve, and balance the pressure before they are opened. I also claim, in combination with the slide and tip hinge valves, combined and operating substantially as herein described, the employment of the adjustable cone, or its equivalent, substantially as described, to regulate the period of cutting off the steam, as described. And I also claim the cone, or its equivalent, in combination with the eccentric tube, or its equivalent, substantially as described, as a means of adjusting the relative periods of closing the two valves, as set forth."

No. 22,936. Daniel Clow, of Janesville, Wis., for an "Improvement in harvesters."

"Having thus fully described my improved harvesting machine, what I claim therein as new, and desire to secure by Letters Patent, is, constructing the main supporting wheel thereof in such a manner as to form therein an outer and an inner zig-zag groove; but this I only claim, when the said grooves have differently proportioned reaches, and bear such a relation to the T-headed sliding bar *n*, and the other parts of the machine which are connected with said bar, and with the cutting apparatus, that the number of the movements imparted to the cutter bar can be varied at pleasure, by shifting the bearings of the said sliding bar *n*, from one position to another, substantially as herein set forth."

No. 22,937. Henry Cogswell, of Greenwich, N. Y., for an "Improvement in hames."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application of the shifting slide t hames as they are now used, by means of which slide the point and position of the draft of the hames can be altered as desired."

No. 22,938. Benjn. Cole, of Brooklyn, N. Y., for a "Pen-holder."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of a pen-holder, with three or more elastic shanks or fingers (*b*), so arranged that the spring of said fingers will hold the pen, by pressing it against and under the shoulders (*c*) of two lateral fingers, and thus admit the introduction of and be adapted to pens of any ordinary size or thickness."

No. 22,939. John B. Cornell, of New York, N.Y., for an "Improvement in fire-proof floors."

"What I claim as my invention, and desire to secure by Letters Patent, is, constructing a fire-proof foundation upon a series of wooden girders, for the reception of a flooring surface formed of boards or other suitable materials, substantially as herein set forth."

No. 22,940. Frederick Curtis, of Saugus Centre, Mass., for an "Improvement in breech-loading fire-arm."

"When a breech slide is used in connection with the barrel of a fire-arm, I claim a movable breech, separate from the breech slide, and arranged and applied therein so as to be adjustable to the rear end of the barrel, substantially in manner and for the purpose as described. I also claim the arrangement of the priming nipple and the touchhold thereof, with respect to the movable adjustable breech applied to the breech slide, as specified, or with respect to the same, and a primer arranged in the stock, substantially as explained, such arrangement being productive of advantages as herein-before enumerated."

No. 22,941. Augustus B. Davis, of Philadelphia, Pa., for an "Improvement in rail road car springs."

"I wish it to be understood that I lay no claim to any specific part or any particular device, when viewed as disconnected from the entire spring; but I claim, as a new and useful article of manufacture and merchandize, the entire railroad car spring herein described, that is to say, a spring composed of a box or casing, with a lid attached to the same, by means of a bolt or bolts, the said box containing a number of spiral springs, confined longitudinally between the bottom of the box and the lid, and retained in their proper position, laterally, by means of lugs, or other suitable devices, the said lid having a limited movement in the direction of the springs, but having no lateral movement independent of the box, so that each spiral spring may be independent of the other, although the whole act in combination, the entire spring thereby retaining its elasticity, even should one or more of its spiral springs be broken or damaged."

No. 22,942. John C. F. Deecken, of New York, N. Y., for an "Improvement in shoe lasts."

"I do not limit myself to the particular shape of the endless chain, the wheel, or the knives; but what I claim as my invention, and desire to secure by Letters Patent, is, the endless chain or band, in combination with a knife or knives, operated in the manner and for the purpose substantially as described."

No. 22,943. Chas. de Saxe, of New York, N. Y., for an "Improvement in umbrella fastenings."

"I am aware that catch bolts operated by means of springs and having knobs or projections to depress them, have been used to support and fasten hinged or jointed rod, such rods being also connected by tubular hinged joints, and therefore I do not claim generally the use of bolts to fasten such rods, or the use of a tubular hinged joint to connect them; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the bolt *a*, substantially as described, operating without springs, and by a double or sliding and rotating motion, in combination with the tubes or sockets B, B, for the purposes set forth."

No. 22,944. Martin D. Elsom, of Howardsville, Va., for an "Improvement in the mode of squeezing and straightening tobacco."

"Having thus fully described the nature and object of my invention, and shown how the same is effected, what I claim therein as new, and desire to secure by Letters Patent, is, squeezing and straightening bundles of tobacco, with a view to their being afterwards 'struck,' by passing them through a straightening and compressing mechanism, substantially such as herein represented."

No. 22,945. John U. Fiester, of Winchester, Ohio, for an "Improved churn."

"Having thus fully described the construction of my invention, what I claim as new, and desire to secure by Letters Patent, is, the adjustable dasher, constructed with two blades D, yoke spring E, cross tie F, with slots *a*, and pins *b*, together with holes *f* and air cavities *d*, operating substantially as herein set forth and described."

No. 22,946. Wm. P. Ford and Theodore Ford, of Concord, N. H., for an "Improvement in cultivator teeth."

"Claim.—What we claim as our invention, and desire to secure by Letters Patent, is, the above described cultivator tooth formed substantially as specified."

No. 22,947. Daniel P. Foster, of Shelburne Falls, Mass., for an "Improved wrench."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, making the hinge joint between the stationary and movable jaw of the wrench at *a*, viz., by the projections *c* on the stationary jaw and the depression *c* in the washer, that is, on the shank of the movable jaw, for the purpose of allowing the movable jaw to change its position in relation to the stationary one, as herein set forth and for the purpose explained."

No. 22,948. Geo. Gilmour, of Chelsea, Mass., for an "Improvement in shackle of telegraph cables, &c,"

"I do not claim a chain shackle, such as I have heretofore patented, as made with a spring forked pawl or catch, to operate with a friction roller; but what I claim is, the telegraph cable or rope shackle, as constructed, with one or more jaws and mechanism to operate the same, substantially as described. I also claim combining either the wing *l* or the knife *m*, or both, with the shackle, so as to operate therewith, in manner and for the purpose or purposes as specified."

No. 22,949. Geo. Hammer, of Philadelphia, Pa., for an "Improved cork cutting machine."

"Having now described the nature of my invention, I wish to be understood, that I do not desire to confine myself to the described construction and combination of the parts in every minutia; but what I claim, and desire to secure by Letters Patent, is, the herein described arrangement of guiding rollers O and P, and sliding wedg S, or their equivalents, in combination with the stop *s*, the whole being constructed and operating substantially in the manner and for the purpose set forth."

No. 22,950. Gorges Hely, of Laporte, Ind., for an "Improvement in horse power equalizer."

"Having thus fully described my invention, what I claim therein as new, is,—First, connecting the eveners G, I, by a rope or chain that passes over a pulley at the centre of the shaft A, substantially as described. I also claim, in combination with the eveners, the method of connecting the points or parts to which the horses are hitched, and by which they draw by means of a system of ropes or chains, and pulleys, connected with the draft bars, substantially as herein described."

No. 22,952. W. W. Hopkins, of Amelia, Ohio, for an "Improved method of lighting gas by galvanic electricity."

"I do not claim broadly the letting on of gas to burners by electricity, or the lighting of gas by heat generated in a platinum wire by a current of electricity passing through it; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the hollow permanent magnet A, valve chamber C, coil F, electro-magnetic valve E and tube D, as and for the purpose herein shewn and described."

No. 22,953. Moses G. Hubbard, of Penn Yan, N. Y., for an "Improvement in harvesters."

"Having thus described my improvements in mowing machines, what I claim therein as new, and desire to secure by Letters Patent, is, connecting the cutting apparatus with the machine by an adjustable attachment, which can be changed from a free hinge to a joint, rigid in one direction, or in both directions, for the purposes and in the manner substantially as set forth. I also claim the employment of a raising lever of the second order with a gradually increasing purchase, by which it is made self-sustaining; and I claim keeping the lever in a convenient position for operation by the hand of the driver by means of a spring, substantially as and for the purpose specified."

No. 22,954. Wm. Huey, of Christiana, Pa., for an "Improvement in elevator for window sashes."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is the arrangement and combination of the rods E, E, pawls (*f*), ratchets (d^{11}), loose drums (*c*, *c*^{1}), sliding shaft D, pins (*d*, *e*,) and cords (*b*, *b*,) as and for the purpose herein shown and described."

No. 22,955. Saml. Huse, of Chicago, Ill., for an "Improved rotary engine."

"What I claim as my invention, and desire to secure by Letters Patent, is, the cams E, E^2, with their steam and exhaust ports, in combination with the heads *m*, m^2, pistons *n*, n^2, and cylinder C, operating in the manner, substantially as herein set forth."

No. 22,956. John Jameson, of 10, Catharine Terrace, Gateshead, county of Durham, England, for an "Improved apparatus for compressing elastic fluids."—Patented in England 13th March, 1858.

"Having now described the nature of my invention, and the manner of performing the same, I would have it understood that I claim as my invention, is, the compression and expansion of acriform fluids by an apparatus of the nature herein described, the same consisting of a combination and arrangement of a series of cylinders, or vessels perforated or tubular pistons, induction and connecting pipes, valves, a reservoir, a rotary shaft and means of heating, or heating and cooling the cylinders or vessels, the whole being constructed and made to operate in manner and for the purpose substantially as herein described."

No. 22,957. Theodore T. S. Laidley, of U. S., Army, for an "Improvement in tape primer for fire-arms."

"Having thus explained the essential features of my invention, the manner of making it, and the advantages that it possesses over all others now known, what I claim as my invention, and as distinguished from all other primers before known, is, the combination of two different materials in the manufacture of tape primers, one a metal or like substance to receive and protect the percussion powder, into which it can be firmly pressed, and the other to connect the former into a series, something that can be easily severed by the edge of the hammer."

No. 22,958. Richd. S. Lawrence, of Hartford, Conn., for an "Improvement in adjustable sight for fire-arms."

"I am aware of the construction of a sight by connecting an elevator with the barrel, or with a fixed and inflexible base, firmly secured to the barrel by a hinge, socket, or other joint; all of which I disclaim; what I claim as my invention and desire to secure by Letters Patent, is, the application of said hinge joint to the spring base and elevator, constructed and arranged substantially as described."

No. 22,959. G. A. Lilliendahl, of New York, N.Y., for "Burglar alarm."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the slide C and plate A with the lips *c* and *b*, so that a cartridge placed on the slide, and between the two lips, is exploded by pushing the slide in substantially as and for the purpose specified."

No. 22,960. S. N. Lennon, of Deposit, N.Y., for an "Improvement in R. R. signal lanterns."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, suspending within the lantern A, at two opposite sides, and over or behind the colorless glass plates *a*, *a*, the frames C, C, provided with the colored glass plates *c*, *d*, and arranged as shown, or in an equivalent way, to operate as and for the purpose set forth."

No. 22,961. Clark Marsh, of New Milford, Conn., for an "Improvement in sewing machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the ring gauge D, E, with its pins *c*, *c*, *c*, spring *d*, and cam *e*, or their equivalents, constructed and applied in combination with the slide ring B, C, substantially as and for the purpose herein set forth."

No. 22,962. James F. Martin and Henry C. Nicholson, of Mount Washington, Ohio, for an "Improvement in preserve cans."

"We do not claim, broadly, the construction of a hermetically-sealed fruit or provision can, nor do we claim coating vessels with vitrious enamel, both being well known and in common use; but we claim as a new and useful article of manufacture, a fruit or provision can, to be hermetically sealed, constructed of metal, lined on the inside with a vitrious enamel, capable of withstanding the action of the acids contained in the fruits, &c. to be preserved, substantially in the manner set forth. We also claim the combination of a metallic cover, vitriously enameled on the inside, with a fruit or provision can, substantially as set forth."

No. 22,963. DAVID N. MARTIN, of Lawrence, Mass., for an "Improvement in stoves."

"I claim the arrangement of the air register G at the upper part of the ascending discharge flue E, and with respect to the direct damper F, substantially as described and represented, the ascending discharge flue being arranged between the two descending flues of the stove case, substantially as set forth."

No. 22,964. JOHN M. MAY, of Janesville, Wis., for an "Improvement in windmills."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, a standard D, arranged in the head *a* of the framework, and so construct that it serves as a guide for the central vertical shaft B, receptacle for gear E, or gear E^1, or gear E^2, support and axis, for the horizontal axle or shaft of the wind wheel, and as a guide for the sliding thimble O, substantially as and for the purposes set forth. 2nd, furnishing each of the stems of the sails with a cogged segment, for the purpose of revolving the sails on their radial axes, the segments being operated by cogged rack bars attached to the sliding thimble K, substantially as and for the purposes set forth. 3rd, the arrangement consisting of the main governor and the forked adjusting rod N, connected with each other, for the purpose of operating the thimble O in regulating or controlling the wind wheel, as set forth. 4th, providing each of the stems of the sails with a weighted arm projecting forward of the front surface of the sails for the purpose of governing the velocity of the wind wheel by regulating the obliquity of the sails to the wind current, substantially as set forth. 5th, the covering made in two sections, which are constructed and arranged as shown, the tubular section T revolving with the wind wheel independently of section S, when the windmill moves in the path of a vertical circle, and with it when the wind wheel moves in the path of a horizontal circle, as and for the purposes set forth."

No. 22,965. JOHN M. MAY, of Janesville, Wis., for an "Improvement in windmills."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the peculiarly constructed stationary central vertical shaft A, in combination with the peculiarly constructed revolving tubular shaft or hollow column B, the shaft A providing axes for the wind wheel and the tubular column B to revolve upon in the paths of horizontal circles, and serving as a support and guide of the structure of the wind wheel, and the tubular column B serving for receiving the power of the wind wheel and transmitting it to machinery, substantially as set forth. 2nd, enlarging the axle C at its shoulder in the form of a hub or pipe box *c*, that the axis *d* of the shaft A may pass up directly through it, so that the center of the axis of the shaft A and axle C intersect and in themselves form vertical and horizontal center bearings within the angle formed by the gear wheels D and E, and the shaft A and axle C also serve as bearings for the gear wheels, substantially as and for the purposes set forth. 3rd, the combination of the horizontal lever S, the vertical governing rod or bar Q, guide bar R, and thimble G, on the tubular column, substantially as and for the purposes set forth. 4th, the employment of a revolving conical cover for the purposes of protecting the mechanism of the wind wheel and dividing the wind current at the front and center of the wind wheel head and guiding it upon the sails, and relieving the weighted elbow levers used for revolving the sails on their radial axes of the countervailing influence of the wind current, so as to enable them to act by centrifugal force with certainty in governing the velocity of the wind wheel, substantially as set forth."

No. 22,966. JOHN MCCOLLUM, of New York, N. Y., for an "Improved cracker machine."

"1st, I claim, in combination with the carrying apron B, the roller A, with its doffer F, or the equivalent thereof, and the supporting or feed roller D, and supporting table C, or their substantial equivalents, in the combination, the rollers and apron moving with simultaneous intermittent progressive motion, the whole being so arranged and operated, substantially as herein-before set forth, described, and shown, so as to progressively flat pellets of dough suitable for crackers, ship biscuit, and similar articles placed in proper order upon the apron and at suitable distances from each other, to permit of the extension of diameter resulting from the operation as they pass under the roller A, without materially disturbing the order of their arrangement on the apron. 2nd, I claim the reciprocating docker, in combination with the carrying apron, bed, and stationary perforated clearer plate, substantially as herein-before described, and substantially for the purposes herein-before set forth, and with or without adjustable springs in combination therewith, to make yielding pressure at the docking point, substantially as herein-before described. 3rd, I claim the flatting apparatus, as herein-before set forth and described in the specification and in the first claim, when combined with or used in combination with a docking apparatus, such as is herein-before set forth and described in the specification and in the second claim, or the substantial equivalent thereof, when used, combined, and operated for the purpose of docking flatted pellets of dough for crackers as they are progressively brought to and under the docker from the flatting apparatus without materially disturbing the order of their arrangement on the apron, substantially as herein-before set forth and described."

No. 22,967. W. A. MCDONALD, of Mott Haven, N. Y., for an "Improved dovetailing machine."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the cutter head D formed of a screw thread *g* on a cylinder *f*, the screw thread being provided with cutters *h*, and arranged substantially as described and for the purpose set forth."

No. 22,968. GORDON MCKAY, of Boston, Mass., for an "Improvement in printing presses."

"Claim.—The combination of an impression cylinder and nippers operating in conjunction with a blast pipe or mechanical means for producing an inequality of atmospheric pressure on the sheet, when released by the nippers, and as said sheet is forced onwards by or with the impression cylinder in its rotary movement, substantially in the manner and for the purpose set forth."

No. 22,969. HENRY H. MCKINNEY and FREDERIC GOTH, of Biddeford, Me., for an "Improvement in repeating fire-arms."

"We do not claim a fire-arm constructed, not only with its nipples or primers arranged one in advance of the other on the barrel, but with a lock having a hammer or striker to operate with each nipple or primer; but we claim the combination of two strikers, one trigger, and a mechanism which will not only enable each striker to be set to and maintained at full cock, but, by retraction of the trigger, will cause both strikers, when at full cock, to be discharged or set free consecutively, so as to be forced against their respective nipples or the percussion caps, or priming thereon, or the equivalents of such, and cause explosion of the priming of the charges, in the order as specified. We also claim the above specified application of the lock case, with respect to the barrel, in combination with the construction and arrangement of the trigger rod or slider in separate parts, and in such manner as to be capable of being locked together, and of being unlocked or disconnected, under circumstances as specified. We also claim the application and arrangement of the two main springs of each striker in the lock case, as explained. We also claim the combination of the trigger slide F and the lever sears arranged and operating with respect to the two strikers, as specified."

No. 22,970. JOHN O. MEAD, of Philadelphia, Pa., for "Improved cruets or bottles for castors."

"I do not desire to confine myself to the use of four bottles or cruets, only, inasmuch as more or less than that number, may be adapted to each other, and comprised within a small compass, in the same manner as the four; but I claim, and desire to secure by Letters Patent, constructing the cruets or bottles of cruet stands so that they may be adapted to each other and to the stand, substantially as herein set forth, and for the purpose specified."

No. 22,971. THEODORE S. MINNISS and THOS. S. MINNISS, of Meadville, Pa., for an "Improvement in preventing friction on axles."

"What we claim as our invention, and desire to secure by Letters Patent, is, the employment of sectors to avoid friction on rolling or sliding surfaces, substantially as set forth. We also claim the combination of the shaft, sectors, and their adjusters, the whole being arranged, constructed, and operating substantially as described."

No. 22,972. A. R. MORRILL, of Northfield, Vt., for an "Improvement in wheels for railroad carriages."

"I do not claim the interposition of wood between the hub and rim of railroad wheels, when the wood is arranged in tapering blocks, the grain of which runs radially of the wheel; neither do I claim any wheel having a wrought-iron rim or tire, as such wheel would by no means attain the ends which I have in view; but what I caim as my invention, and desire to secure by Letters Patent, is, a wheel for railroad purposes having a cast-iron hub and rim, and a body of wood formed of double plates, as described, and secured to the hub and rim by bolts, as set forth."

No. 22,973. JOHN NICHOLSON, of Alleghany, Pa., for an "Improvement in retorts for distilling oils from coal."

"I do not confine myself to any particular number or to any peculiar form of the agitators, or to any number of shafts

armed with agitators, as three or more shafts may be arranged as represented in Figure 5, marked (*m*); nor do I confine myself to any particular manner of arranging the agitators, or the shaft or shafts; neither do I claim a revolving or oscillating retort; but what I do claim as of my invention, and desire to secure by Letters Patent of the United States, is,—First, furnishing retorts used for extracting the oleaginous matter from coal and other substances with agitators, or a shaft or shafts armed with agitators, as herein described and for the purpose set forth. Second, in so arranging the supply and discharge openings and the exit pipes in connection with the trunnions, that when one portion of the retort is weakened by the action of the fire another part may be exposed to it, as herein described and represented."

No. 22,974. Edwd. Nugent, of Brooklyn, N.Y., for an "Improvement in machine for making bullets, &c."

"Having now fully described my invention and its operation, what I claim as new in the manufacture of buck shot and balls, and desire to secure by Letters Patent, is,—1st, the revolving self-cutting mould E, E, working in contact with the mouth D of the lead kettle, through which the cavities *e*, *e*, are supplied with metal, substantially in the manner and for the purposes above set forth. 2d, I claim the end motion of the two series of mould rings E, E¹, and the opening and closing of the several rings in one series while the cavities in the other series are being filled, substantially as above set forth. 3d, I claim the tumbling bars, or their equivalents, operating substantially as described, by which a concussion is produced when the mould rings are opened, and allowance is made for any obstruction between the rings when closed, as within set forth."

No. 22,975. N. B. Pratt, of Deep River, Conn., for an "Improved carpet sweeper."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the rotating brush on adjustable swinging lever bearings G, in combination with an elastic driving belt H, substantially as and for the purposes set forth."

No. 22,976. Clark S. Putnam, of New York, N.Y., for an "Apparatus for vulcanizing caoutchouc."

"What I claim, and desire to secure by Letters Patent, is, the combination of the boiler A, the vulcanizing chest B, and the condensing chamber G, constructed, arranged, and operating substantially in the manner described; the same constituting a portable automatic apparatus for the purposes specified."

No. 22,977. B. F. Ray, of Baltimore, Md., for an "Improvement in harvesters."

"Having thus fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, the conical roller, in combination with the cam-groove, for actuating the means that operate the cutter-bar."

No. 22,978. Jesse Reed, of Marshfield, Mass., for an "Improved windlass."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the windlass drums D, E, pawls *f*, *g*, with the wheel F and knee or Sampson post H, whereby the central wheel F is supported on both sides, and the windlass rendered more simple and sure in its action, substantially as described."

No. 22,979. Adolphe Roesler and Chas. Frey, of Warsaw, Ill., for a "Pocket match-box."

"Having now described our invention, what we claim as new, and desire to secure by Letters Patent, is,—1, the cylinders A and B, provided with stripes *a* and *e*, and spring *d*; 2, tube E provided with spring O, the whole being arranged substantially as described, and for the purpose specified."

No. 22,980. Amos A. Richards, of Urbana, Ohio, for an "Improvement in locks."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the wheels *a* and *a*¹, with their rings *x* and *x*¹, and the spring *c*, and slides *c*, for producing friction between them, and the arrangement of the bolts B and its stems *o* and *o*¹, and the use of the hands *h* and *h*¹, and dial *d*, by which the principle of the above friction wheels and rings is applied to this lock, as above described. And I also claim the arrangement of the eccentric E, brake K, brake lever L, check bolt C, and catch *e*, by which the pressure of the stems *o*, *o*¹, on the rings *x*, *x*¹, simultaneously with the revolution of the hands *h*, *h*¹, and rings *x*, *x*¹, is prevented, as above described. And I further claim the manner or arrangement above described, of revolving the dial *d*, by removing the screws L, L, as above detailed."

No. 22,981. Gelston Sanford, of Poughkeepsie, N.Y., for an "Improved steam-engine."

"Having thus fully described my improved engine, what I claim as new, and desire to secure by Letters Patent, is,—I claim the inside head H, in combination with the cross head E, and elongated cylinder A, B, when constructed and operated in the manner and for the purposes above specified, as an article of manufacture."

No. 22,982. Joseph Saxton, of Washington, D. C., for a "Mode of sealing letters, &c."

"I am aware that impressions have been made upon fusible metal, for the purpose of copying devices; this I do not claim. What I claim as my invention, and desire to secure by Letters Patent, is, the process of sealing, by means of fused metal or alloy, whereby the impression is made and the seal secured simultaneously, substantially as above described."

No. 22,983. Geo. Shone, of St. Louis, Mo., for an "Improved machine for punching railway bars."

"I do not claim, broadly, the employment or use of cams for operating punches, for cams are a well-known mechanical device, and have been previously used for the same and analogous purposes; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the recessed gate H, triple cam shaft C, clamping screws J, K¹, and adjustable buttons M, substantially as and for the purpose herein shown and described."

No. 22,984. E. A. Smead, of Tioga, Pa., for an "Improvement in converting reciprocating into rotary motion."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the fly wheel A, with the adjustable wrist-pin *h* attached, in connection with the slotted bar or rod B and rod C, the whole being arranged to operate substantially as and for the purpose herein set forth."

No. 22,985. T. Briggs Smith, of New York, N.Y., for an "Improved method of burning the threads on wooden screws."—Patented in England 1st January, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, the application of a screw made on a bung, and another screw made in the stave corresponding with that upon the bung, both being formed by burning. This bung is to be used for all casks or vessels made of woods for liquids. I also claim the forming a screw by burning on a bung or stopple, to be used in any vessel made of any material, whether wood, metal, glass, or other material."

No. 22,986. Stephen Wm. Smith, of Brooklyn, and Hubbard Bigelow, of New York, N.Y., for a "Fly-trap."

"What we claim as our invention, and desire to secure by Letters Patent, is,—1st, the combination of the endless web or apron B with the plate or scraper H, and the rollers C, C¹, and F, operated as described for the purposes set forth. 2d, the combination of the endless web B with the roller F and the pan G, in the manner and for the purpose described."

No. 22,987. Watson Snyder, of Newark, N.J., for an "Improvement in sewing machines."

"I do not claim the employment of a surface arranged obliquely to the face of the cloth table or plate, to turn the edges of fabrics in sewing machines; neither do I claim the attaching of the whole binding guide to the foot or pressure pad, so that it may be caused to rise and fall therewith, as that has been already patented by O. G. Boynton, June 1, 1854; but what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the fixed lipped, guide C for the under edge of the binding, the fixed bar adjustable guide D for the edge of the fold of the binding and the elastic plate E operated upon by the pressure pad of foot, the whole applied and operating substantially as and for the purpose herein set forth."

No. 22,988. John Spangenberg, of New York, N.Y., for an "Improvement in defecating and clarifying saccharine juices."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application of hydrated oxide of tin, prepared with sulphurous acid, substantially as herein set forth, for the purpose of decolorizing or bleaching and defecating syrups, saccharine solutions and liquids from sugar cane and other saccharine and vegetable juices, whether the same be used alone or in combination with alumina, as set forth."

No. 22,989. OREN STODDARD, of Busti, N.Y., for an "Improved churn."

"I do not claim broadly the employment or use of a weight in connection with the gearing, 'scape wheel, and pallets applied to a churn for operating the same, irrespective of the particular manner of adapting the power to the churn, as herein shown and described, for such parts form a portion of a simple clock movement, and is a well-known device; but, having thus described my invention, what I do claim as new and desire to secure by Letters Patent, is,—1st, the combination of the crutch M with the interior of the churn box N, so that the lower end of the said crutch shall act as and constitute the dasher, substantially as described."

No. 22,990. LUKE TAYLOR, of North Springfield, Vt., for an "Improved mop-head."

"I do not claim separately any of the parts described; but I do claim as new, and desire to secure by Letters Patent as an improved article of manufacture, a mop-head, having a loose collar C, provided with a screw thread, and otherwise made as described."

No. 22,991. JOHN TYLER, of Providence, R. I., for "Improved ice-tongs."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of a pick and cutter, or either of them, with a pair of ice-tongs, by forming or attaching the same upon or to the back of either leg of the tongs, substantially as herein described, thus making an instrument of novel character."

No. 22,992. JOHN L. WAGER, of Deposit, N. Y., for an "Improvement in R. R. signal lanterns."

"I am aware that switch lanterns have been previously devised in which colored glass plates have been operated or certain parts so adjusted by the movement of the switch bar or lever, that different colored lights are shown to indicate the position of the switch; I therefore do not claim broadly an automatic switch lamp; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the lantern case B, provided with the colorless glass plates *f*, *f*[1], and loosely attached or suspended to the rod or shaft *o*, which is connected with the switch bar or lever A the case being provided with the oscillating or partially rotating frame C, containing colored glass plates, and connected with the rod or shaft *o*, by means of the arm *n*, the whole being arranged substantially as and for the purpose set forth."

No. 22,993. LAWRENCE B. WATERMAN, of Chicago, Ill., for an "Improved clothes frame."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, the combination of the stationary top support B with the movable parts D, G, when operated through the segmental racks *c*, *f*, and arranged for the purpose of forming a tipping clothes dryer frame, substantially as herein set forth."

No. 22,994. ELISHA WEST, of Ogden, N. Y., for an "Improved method of locking and supporting the panels of field fences."

"I do not claim panels constructed as above described, either with battens alternately on opposite sides, or entirely on one side of the rails; nor do I claim a triangular or brace support for the panels of a fence; but what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the panels and the triangular brace or jack G, constructed as described, when so arranged in connection with the recesses *e*, *e*, of the panels, that by drawing the adjacent panels in opposite directions till the jack G shall enter said recesses *e*, *e*, the sections of the fence shall be securely locked together in the manner specified."

No. 22,995. CARL WINZEN, of Albany, N. Y., for an "Improvement in coating metals with tin."

"What I claim as my invention, and desire to secure by Letters Patent, subject to the foregoing explanations and disclaimers, is, the solution composed of the ingredients, in substantially the same proportions, applied to accomplish the process of tinning, and used substantially in the manner above described."

No. 22,996. GILMAN, WOODWARD, and FRANKLIN S. HATHAWAY, of Keene, N. H., for an "Improvement in securing garments to hooks."

"What we claim is,—1st, securing the hook B to the vertical sliding plate C, C, in the manner and for the purposes described and set forth. 2nd, the manner of operating the arm F, in combination with the movement of the hook B, and sliding plate C, C. 3rd, arming the hook B and the arm F, at their points of contact, with movable spurs, in a manner and for the purposes described and set forth. 4th, the tumbler S, when operated as described, or otherwise to produce the same effect, as specified and set forth."

No. 22,997. JOHN DÉ FRAIN, of Philadelphia, Pa., assignor to Wm. Callahan and Wm. Grant, of said Philada., for an "Improvement in corn and cob mill."

"Having thus fully described my invention, and its mode of operation, what I claim as new, and desire to secure by Letters Patent, is,—1, making the hopper (N) of the crusher (M) adjustable on the shell of the same, so as to present to the ear of corn either the corner edge (7) of the hopper (N), or the inner edge (8) of the shell (M), as occasion may require, substantially in the manner and for the purposes set forth and described. 2, I claim the carrier (K), the inverted cup (K[1]), and its adjusting bolt and nut (*v*), and arch piece (*w*), in combination with the hopper (C) and spindle (F), the same being constructed and arranged together, substantially as shown, and operating together in the manner and for the purpose described. 3, I claim the combined arrangement of the scrapers (S, S,) on the bottom of the rotating disk (E), the annular groove (*p*) in the diaphragm (A[1]), and the outlets and tubes (L, L), the same operating together, substantially in the manner and for the purpose set forth and described. 4, I also claim the combined arrangement consisting of the outlets (L, L) and the opening (*u*) through the diaphragm (A[1]), the same operating together with the rotary disk (E), in the manner and for the purpose specified."

No. 22,998. THOS. A. DUGDALE, of Richmond, Ind., assignor to Wm. M. Reed, of Newcastle, Ind., for an "Improved washing machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining and arranging the inclined planes F, F, the plate H, and pins I and J, J, with the double inverted inclined planes D, D, rollers E, E, E, E, E, E, E, E, and wash-boards A, A, the whole being constructed, arranged, and operated substantially as above described, and for the purposes set forth."

No. 22,999. JOSIAH J. DUTCHER, of Brooklyn, N.Y., assignor to Noah Mosher, of Norwalk, Conn., for an "Improved pail."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the pail constructed of the body A, and jacket B, of the materials herein specified, to form a new and useful article of manufacture."

No. 23,000. EZRA POLLARD, of Albany, N.Y., assignor to himself and Joshua Gray, of Westfield, Mass., for an "Improvement in securing sheet metal roof."

"I do not claim, broadly, the attachment of the sheet-metal coverings of roofs and other portions of buildings by interlocking connections which leave the metal free to move in all directions, as I am aware that slotted plates set up edgewise have been attached to the roofs in pairs to receive small bars attached by loops or eyes to the metal covering, making a much less simple contrivance than any interlocking strips; but what I claim as my invention, and desire to secure by Letters Patent, is,—1st, securing the edges of sheet-metal coverings of roofs and other portions of buildings by means of strips of india rubber *b* united to the said edges by lap joints and nailed to the building, substantially as herein described. 2nd, the interlocking metal strips *f*, *g*, formed, applied, and operating substantially as herein set forth."

No. 23,001. LUCIUS P. PORTER, of New York, N.Y., assignor to the New York Rubber Company, of said New York, for an "Improvement in elastic toys."

"What I claim as my invention is, the combination of a reed or other speaking device with a hollow elastic toy made of caoutchouc or gutta percha, or their compounds, for acting together, the former by the latter, substantially as specified. And I further claim the manner herein described of securing the reed frame to the toy by grooving the frame on its edges or periphery and inserting it in a hole in the toy, so as to be clasped in the groove by the edges of the elastic material, in which in which the receiving aperture is made."

No. 23,002. GEO. W. RICHARDSON and ROBT. GLOVER, of Grayville, Ill., assignors to themselves and John I. Tanquerry, of White Co., Ind., for an "Improvement in converting rectilinear into rotary motion."

"We are aware that segment wheels have been used to operate a working frame, and 'vice versa,' hence we do not

claim this device; but what we claim as our invention, and desire to secure by Letters Patent, is, the arrangement of the rocking racks (K, K,) in combination with the segment wheel (I), substantially as herein described, for the purposes set forth."

No. 23,003. Arad Woodworth, 3d., of Boston, and Daniel Woodworth, of Warren, and M. T. Hitchcock, of Springfield, Mass., assignors to Arad Woodworth, 3d. and Danl. Woodworth aforesaid, for an "Improved rocking horse."

"Having thus described our improvements, we shall state our claim as follows:—What we claim as our invention, and desire to have secured to us by Letters Patent as a new article of manufacture, is, a rocking horse, consisting of the head and neck of a horse made as in the ordinary rocking horse, combined with a hollow box or cradle, so that the child can be placed therein, and which rocks longitudinally, thereby uniting the advantages of a rocking horse and cradle, and preventing the liability of accidents to the child by falling, as set forth."

Re-issues.

Thomas Brown, of London, England, for an "Improved arrangement of means for working and stopping chain cables."—Patented 25th July, 1854.—Ante-dated 20th April, 1847.— Re-issued 15th February, 1859.

"I claim the flaring and radial flanched annular recess in the capstan of working a cable of any given size, or cables of several different sizes, the same being constructed and operating in the manner and for the purposes, substantially as set forth herein. I also claim, in combination with a capstan, a windlass which is capable of working a chain cable, when only a partial turn is taken, a set of removable rollers, so arranged in relation to the capstan, the deck-pipes, and haws-holes, that either a port or starboard chain cable can be continuously hove in by means of said capstan and rollers, or can be directly run out of its locker without any previous overhauling, substantially as herein set forth. I also claim the within described arrangement of bow-stopper and after-stoppers, whereby more cable can gradually and controllably be given to a vessel whilst riding heavily at anchor, substantially as set forth. I also claim the clearing guide, in combination with the annular recess of a capstan or windlass which is capable of working a chain cable when only a partial turn is taken, for the purpose and in the manner substantially as set forth."

N. Jensen, of Washington, D.C., for an "Improvement in bandages."—Patented 14th December, 1858.—Re-issued 15th February, 1859.

"Having thus described my improvements in catamemal bandages, what I claim therein as new, and desire to secure by Letters Patent, is, the extension spring frame (*a*), constructed and arranged substantially as described, so that when the sides are closed by the pressure of the limbs the rear of the frame will remain open for the purpose as set forth. I also claim the combination with the exterior frame, or when constructed and arranged substantially as described, for the purpose herein set forth."

James Wood, of Philadelphia, Pa., assignee thro' mesne assignments of William Kenyon, of Stenbenville, Ohio, for an "Improvement in machines for making nuts, washers, &c."—Patented 14th October, 1851.—Re-issued 15th February, 1859.

"Having thus described William Kenyon's improvement in the manufacture of nuts, what I claim therein as his invention, and desire to secure by Letters Patent, is,—1st, making nuts for bolts by subjecting the blank of which the nut is to be found at a welding heat, to compression between swages or dies in a close die box or matrix, and punching the eye of the nut during the continuance of such pressure, for the purpose of welding up any imperfections in the iron and giving a symmetrical shape and smooth finish to the nut, and of preventing any injury to the nut which it might suffer by the passage of the punch through it, if it were not thus sustained by the sides of the die box, and forcibly compressed between the dies. 2d, the use of a die box, closed at the sides, for surrounding the nut, and sustaining its sides, while it is subjected to pressure, substantially in the manner herein-before described. 3d, the combination of the compressing dies P and T with the die box M, for the compressing the nut while it is sustained at the sides, and thus welding up any imperfections in the iron and compacting its fibre, so as to give strength as well as exterior finish and symmetry to the nut. 4th, the combination of the punch L with the die box M and compressing dies P and T, for the purpose of compressing, confining, and restraining the opposite faces of the nut, during the passage of the punch through it, and thus preventing any injury to the nut during the process of punching; and also for the purpose of ensuring the making of the bore of the nut in the proper relative position to its upper and lower surfaces. 5th, the combination of the die box M, the compressing dies T and P, and punch L, constructed and arranged substantially as herein-before described, for the purpose of making hot-pressed nuts at a single operation, by severing a blank from a bar of heated metal, compressing it into shape, and punching a hole or eye through it while under compression, and delivering the finished nut from the machine. 6th, arranging the compressing dies in relation to the punch, and regulating their relative motion in such manner, substantially as herein-before described, that any excess of iron in the blank shall be forced into the path of the punch in the compressing dies, thus securing the compression of the nut without risk of damage to the machine."

The Railroad Car Spring Company, of Philadelphia, Pa., assignees thro' mesne assignments of Henry M. Paine, of Worcester, Mass., for an "Improvement in R. R. car springs."—Patented 27th October, 1857.— Re-issued 15th February, 1859.

"We are aware that layers of felt have been heretofore applied as bumper springs to railway cars, such a device being shown in the English Patent of W. W. Taylor, Feb. 1841; in that instance, however, the felt was simply confined to a plate by a yielding leather cover secured by cords, without any regard to a given condensation of the felt, so as to obtain a proper recoil; we therefore do not claim broadly the application of fibrous material in the manufacture of car springs; but we claim, and desire to secure by Letters Patent, as the invention of the aforesaid Henry M. Paine, and as a new manufacture, a railroad car spring consisting of a body of felt, or other fibrous material, condensed to a given density between two rigid plates, and prevented from expanding beyond that density by a bolt or bolts, substantially as herein set forth."

Hiram Bissell, of Hartford, Conn., for a "Design for hot-air furnaces."

"What I claim, therefore, and desire to secure by Letters Patent, is, the shape and configuration of the said furnace, as herein described, as shown in the drawings."

Hiram B. Musgrave, of Cincinnati, Ohio, for a "Design for gas-burners."

"I claim as new, and of my invention, a design for portable gauze gas-burners, represented in the accompanying drawings.'

Elimir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for carpets."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the design or pattern for carpets, herein set forth."

Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for carpets."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the within described design or pattern for carpet and other fabrics."

Additional Improvement.

John Waugh, of Elmira, N.Y., for an "Improvement in machines for trimming the edges of paper-hangings."—Patented 5th October, 1858.—Additional improvement dated 15th February, 1859.

"What I claim as my invented improvement, and desire to have added to my original invention, and secured by Letters Patent, is, the framed ways W, X, moving in a curvilineal path on a centre at one angle of frame,—the hand lever *x* that operates on frame way, and the springs *b*, *b*, which keep the frame in position, in combination, for the purposes as substantially as set forth."

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Notices to Proceed.

NOTICE is hereby given, that

2375. MARK MASON, of Manchester, in the county of Lancaster, Machinist, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in elevating stands or stages for the use of hosemen in extinguishing fires, also for decorating wnidows, public buildings, and other purposes."

As set forth in his petition, recorded in the said office on the 25th day of October, 1858.

2384. And MARK MASON, of Manchester, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in self-acting feeding machines, or apparatus for all descriptions of steam or other letter-press printing machines or presses."

2386. And CHARLES WIELAND, of Warkworth Terrace, Commercial Road, Limehouse, in the county of Middlesex, has given the like notice in respect of the invention of "Certain improvements in chronometers, watches, and such like time keepers."

As set forth in their respective petitions, both recorded in the said office on the 26th day of October, 1858.

2389. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new machine for boring."—A communication.

2392. And JOHN KINSEY, of Brighton, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines and pumps."

2393. And CHARLES CHEYNE, of Great George Street, in the city of Westminster, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction of floors and ceilings."

As set forth in their respective petitions, all recorded in the said office on the 27th day of October, 1858.

2405. And TIMOTHY RAILTON, of the city of Manchester, Manufacturer, has given the like notice in respect of the invention of "Improvements in the apparatus employed in the manufacture of cap or bonnet fronts."

2408. And BENJAMIN FOSTER, of Denholme, near Bradford, in the county of York, Spinner, and PRINCE SMITH, of Keighley, in the county of York, Machinist, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for spinning and doubling wool, alpaca, mohair, cotton, silk, flax, and other fibrous substances."

As set forth in their respective petitions, both recorded in the said office on the 28th day of October, 1858.

2418. And JAMES WRIGHT, of 21, Bridge Street, Blackfriars, London, county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved application of machinery to be used as a new motive propelling power."—A communication.

2419. And GEMINIANO ZANNI, of Union Street, Barnet, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in arranging magneto-electric machines for medical and other purposes."

2422. And LESTER JOHN LEWIS, Jeweller, of New Bridge Street, Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in fastenings for ladies' dresses and other such like purposes, as also in the machinery for manufacturing the same."

2423. And JOHN MORRIS, of Broughton, Salford, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in the manufacture of rollers or cylinders for printing fabrics."

As set forth in their respective petitions, all recorded in the said office on the 29th day of October, 1858.

2433. And JOHN CARISS, of York, Yorkshire, has given the like notice in respect of the invention of "An improved safety switch box and gear."

2434. And EDWARD MAYNARD, of Brooklyn, in the county of Kings, and state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in sub-marine telegraph cables."

2435. And CHARLES PERLEY, of the city and state of New York, United States of America, has given the like notice in respect of the invention of "Certain improved means for disconnecting boats from the davit blocks, and effecting other like objects."

As set forth in their respective petitions, all recorded in the said office on the 1st day of November, 1858.

2438. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved system of railway brakes."—A communication from Claude Arnoux, residing at Paris.

2442. And ROBERT CREED SMITH, of Birmingham, in the county of Warwick, Glass Mould Maker, has given the like notice in respect of the invention of "A new or improved buoy or wreck intelligencer."

2444. And MANUEL LEOPOLD JONAS LAVATER, of the Strand, in the county of Middlesex, India-rubber Manufacturer, has given the like notice in respect of the invention of "Improvements in cartridges for military and other purposes."

As set forth in their respective petitions, all recorded in the said office on the 2nd day of November, 1858.

2458. And JOHN FOWLER, junior, ROBERT BURTON, and DAVID GREIG, all of Cornhill, in the city of London, have given the like notice in respect of the invention of "Improvements in applying motive power to actuate ploughs and other agricultural implements."

As set forth in their petition, recorded in the said office on the 3rd day of November, 1858.

2465. And COLIN MATHER, of Salford, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in drying yarns while in the hank."

As set forth in his petition, recorded in the said office on the 4th day of November, 1858.

2471. And THOMAS TILL, of Hooper Street, in the borough of Birmingham, in the county of Warwick, Mechanic, has given the like notice in respect of the invention of "Improvements in machinery for making nails, and for other analogous purposes where metal is compressed by dies or stamps."

2472. And THOMAS BRIGGS, Smith, of Marietta, in the state of Ohio, and United States of America, has given the like notice in respect of the invention of "Preparing wood so as to be used as a substitute for curled hair in the manufacture of mattresses and in the other purposes to which curled hair and its substitutes are applied."

2478. And SIMON DAVEY, Merchant, residing at Rouen, France, has given the like notice in respect of the invention of "Improvements in blasting powder."

As set forth in their respective petitions, all recorded in the said office on the 5th day of November, 1858.

2489. And JAMES JACKSON, AARON FISHER, and JOHN JONES HARNEY, of Sheffield, in the county of York, Crinoline Manufacturers, have given the like notice in respect of the invention of "Improvements in the manufacture of strips or bands of steel, and in the machinery or apparatus to be employed therein."

2490. And JOHN PLATT, of Oldham, in the county of Lancaster, Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing, spinning, and doubling cotton and other fibrous materials."

As set forth in their respective petitions, both recorded in the said office on the 6th day of November, 1858.

2501. And JOSEPH FRANÇOIS AMBLET and AUGUSTE POLART, both of Amiens, in the empire of France, Manufacturers, have given the like notice in respect of the invention of "Improvements in the manufacture of elastic fabrics."

As set forth in their petition, recorded in the said office on the 8th day of November, 1858.

2505. And JOHN LOUIS JULLION, Paper Maker, of Stoneywood Works, Aberdeen, N.B., has given the like notice in respect of the invention of "Improvements in the manufacture of paper."

2508. And JOSEPH FELIX, of No. 54, Rue Croix Nivert, at Grenelle, near Paris, Mechanician, has given the like notice in respect of the invention of "Improvements in castors for furniture and other similar purposes.'

2510. And WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Patent Agent and Engineer, has given the like notice in respect of the invention of "Improvements in signals for railways, and in apparatus for actuating the same."—A communication from Auguste Lucien Verité and Julien Stephane Bazin.

2513. And ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved apparatus for obtaining extracts or decoctions."—A communication.

As set forth in their respective petitions, all recorded in the said office on the 9th day of November, 1858.

2532. And MARTIN BENSON, late of Cincinnati, in the United States of America, but now residing at Newcastle, Mechanical Engineer, has given the like notice in respect of the invention of "An improved manufacture of rails for railways."—A communication.

As set forth in his petition, recorded in the said office on the 11th day of November, 1858.

2538. And THOMAS FILDES COCKER, of Sheffield, in the county of York, Steel File and Wire Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of steel and iron wire, also of sheets and strips of steel."

2540. And JOSEPH GILBERT MARTIEN, of Ampthill Square, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of iron and in the apparatus employed in such manufacture."

As set forth in their respective petitions, both recorded in the said office on the 12th day of November, 1858.

2547. And JOHN COURAGE, of Horsleydown, in the county of Surrey, Brewer, and FREDERICK BENNETT, of Holywell, in the county of Flintshire, Smelter, has given the like notice in respect of the invention of "Improvements in furnaces for reducing and smelting ores, scoria, slag, and waste."

As set forth in their petition, recorded in the said office on the 13th day of November, 1858.

2561. And ALLAN DICK, of Holywell, in the county of Flint, Metallurgist, has given the like notice in respect of the invention of "A new or improved manufacture of a yellow pigment."

As set forth in his petition, recorded in the said office on the 15th day of November, 1858.

2594. And JOHN PLATT, of Oldham, in the county of Lancaster, Mechanical Engineer, and HARRY CHUBB, of Brecknock Crescent, Camden Town, in the county of Middlesex, Gentleman, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for making bricks or tiles."—Partly a communication from abroad.

2595. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "A process of thickening, strengthening, and improving tanned hides."—A communication from Antoine Louis Adolphe Favier, residing at Nancy, in the empire of France.

As set forth in their respective petitions, both recorded in the said office on the 17th day of November, 1858.

2622. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in purifying natural phosphates of lime."—A communication from Emile Constant Martin, residing at Paris, in the empire of France, formerly Banker.

2629. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved apparatus for transmitting motive power."—A communication.

As set forth in their respective petitions, both recorded in the said office on the 19th day of November, 1858.

2650. And SAMUEL WAITE JOHNSON and JAMES VARLEY, both of Peterborough, in the county of Northampton, Engineers, have given the like notice in respect of the invention of "Improvements in pressure and vacuum gauges."

As set forth in their petition, recorded in the said office on the 22nd day of November, 1858.

2666. And ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery for making bolts and rivets."—A communication.

As set forth in his petition, recorded in the said office on the 24th day of November, 1858.

2685. And EDWARD DIXON, of Wolverhampton, in the county of Stafford, Manufacturer, and JOHN FISHER, of Wolverhampton aforesaid, Tube Drawer, have given the like notice in respect of the invention of "An improvement in the manufacture of welded iron tubes."

As set forth in their petition, recorded in the said office on the 26th day of November, 1858.

2695. And JAMES TANGYE, of Birmingham, in the county of Warwick, Machinist, has given the like notice in respect of the invention of "An improvement in hydraulic presses."

As set forth in his petition, recorded in the said office on the 27th day of November, 1858.

2787. And JOHN JOBSON, of the Derwent Foundry, Derby, has given the like notice in respect of the invention of "Improvements in the manufacture of stoves and fire places."

2792. And JOHN DAWSON, of Holbeck, in the parish of Leeds, in the county of York, Machine Maker, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for raising the nap on woollen cloths."

As set forth in their respective petitions, both recorded in the said office on the 6th day of December, 1858.

2859. And JAMES WEBSTER, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "A new or improved method of recovering copper and zinc from liquids which have been employed to dip or pickle articles made of brass or other alloys containing copper and zinc."

As set forth in his petition, recorded in the said office on the 14th day of December, 1858.

2898. And ISAAC KETCHUM, of No. 59, Canning Street, Liverpool, in the county of Lancaster, Merchant, has given the like notice in respect of the invention of "Improvements in the method of roasting meat, poultry, game, by basting the same, and in the method of manufacturing the necessary apparatus for so doing."

As set forth in his petition, recorded in the said office on the 18th day of December, 1858.

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27. And CHARLES BELL BLYTH, of Dundee, Mill Manager, has given the like notice in respect of the invention of "Improvements in machinery for preparing and treating jute, hemp, flax, and other fibrous materials."

As set forth in his petition, recorded in the said office on the 3rd day of January, 1859.

83. And WILLIAM TILLIE, of the city of Londonderry, in the county of Londonderry, Ireland, Shirt Manufacturer, has given the like notice in respect of the invention of "An improvement in the manufacture of shirts and shirt fronts."

As set forth in his petition, recorded in the said office on the 11th day of January, 1859.

216. And JOHN FOWLER, junior, of Cornhill, ROBERT BURTON, of Kingsland, in the county of Middlesex, DAVID GREIG, of New Cross, in the county of Kent, and JEREMIAH HEAD, of Newcastle-on-Tyne, have given the like notice in respect of the invention of "Improvements in agricultural implements, and in apparatus used for hauling agricultural implements by steam power."

As set forth in their petition, recorded in the said office on the 24th day of January, 1859.

227. And JOHN WHITE, of Finchley, in the county of Middlesex, Surgeon, has given the like notice in respect of the invention of "Improvements in means or apparatus to facilitate respiration under water, or under the influence of fire, or in other situations where an artificial supply of air may be required, part of which improvements is also adapted to facilitate movement in or upon the surface of water."

As set forth in his petition, recorded in the said office on the 25th day of January, 1859.

275. And THOMAS WILSON, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "Improvements in breech loading and other fire-arms."

As set forth in his petition, recorded in the said office on the 31st day of January, 1859.

309. And WILLIAM CLAYTON and JACOB GOODFELLOW, both of Blackburn, in the county of Lancaster, Engineers, have given the like notice in respect of the invention of "Certain improvements in metallic pistons."

As set forth in their petition, recorded in the said office on the 3rd day of February, 1859.

348. And THOMAS MOSS, of 69, Fleet Street, in the city of London, in the employment of Messrs. Perkins, Bacon, and Co., has given the like notice in respect of the invention of "Improvements in the manufacture of paper and printing ink, suitable for bank notes, bills of exchange, and other documents requiring like security against being copied."

353. And WILLIAM WALLER, of Chesterfield, in the county of Derby, Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in agricultural or farm implements or apparatus."—Partly a communication from William Rogers, residing at Toronto, Canada West.

As set forth in their respective petitions, both recorded in the said office on the 8th day of February, 1859.

365. And JOSEPH CROSSLEY, of Halifax, has given the like notice in respect of the invention of "Improvements in the means employed when steaming printed yarns."

As set forth in his petition, recorded in the said office on the 9th day of February, 1859.

374. And JOHN YOUNG, of Wolverhampton, in the county of Stafford, Manufacturer, has given the like notice in respect of the invention of "An improvement or improvements in the construction of knobs and the roses used for connecting knobs with doors, and with the cases of locks and latches and other like fastenings."

As set forth in his petition, recorded in the said office on the 10th day of February, 1859.

386. And HENRY BRUCE, of Kinleith Mill, Currie, in the county of Midlothian, North Britain, Paper Manufacturer, has given the like notice in respect of the invention of "Improvements in apparatus for the manufacture of paper."

As set forth in his petition, recorded in the said office on the 11th day of February, 1859.

404. And HENRY GARDNER, of 1, Old Quebec Street, Portman Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in machinery for breaking and preparing flax and other fibres."

As set forth in his petition, recorded in the said office on the 12th day of February, 1859.

413. And JAMES COPCUTT, of 26, Kirby Street, Hatton Garden, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in obtaining light from gases."

As set forth in his petition, recorded in the said office on the 14th day of February, 1859.

426. And SAMUEL BAILEY, Mining Engineer, of Wednesbury, in the county of Stafford, has given the like notice in respect of the invention of "Certain apparatus for preventing the skip in mine operations being pulled over the pulley on which the rope or chain works, to which such skip or cage may be attached, as well as preventing the skip or cage re-descending until put in motion for that purpose."

439. And JOSEPH BREEDEN, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "New or improved machinery for the manufacture of taps or stopcocks, and fittings for gas, steam, and water pipes."

440. And JOHN EASON, of Oxford Street, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in apparatus applicable to tanning, dyeing, and obtaining extracts from vegetable, animal, and mineral substances."

As set forth in their respective petitions, all recorded in the said office on the 16th day of February, 1859.

452. And HENRY SWAISLAND, of 54, Great Sutton Street, Clerkenwell, in the county of Middlesex, Mathematical Instrument Maker, has given the like notice in respect of the invention of "Improvements in box sextants."

As set forth in his petition, recorded in the said office on the 18th day of February, 1859.

459. And ALPHONSE RENÉ LE MIRE DE NORMANDY, of 67, Judd Street, Brunswick Square, in the county of Middlesex, Analytical Chemist, has

given the like notice in respect of the invention of "Improvements in an apparatus for obtaining fresh water from salt water."

As set forth in his petition, recorded in the said office on the 19th day of February, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

8th March, 1859.

1811. Willoughby Smith, of 3, Montrose Villas, Pownall Road, Dalston, in the county of Middlesex, for an invention of "An improved compound for coating or insulating electric telegraph wires, and for coating other surfaces."—Dated 9th August, 1858.

2043. Constantine Nicolaus Kottula, of Liverpool, in the county of Lancaster, Soap Manufacturer, for an invention of "Improvements in the manufacture of grease for lubricating purposes."——Dated 9th September, 1858.

2044. James Tatlow, of Wirksworth, in the county of Derby, Manufacturer, and Henry Hodgkinson, of the same place, Engineer, for an invention of "Improvements in railway breaks."—Dated 9th September, 1858.

2056. François Antoine Edmond Guironnet de Massas, of Gerrard Street, in the county of Middlesex, Civil Engineer, for an invention of "An improved machine for decorticating and cleaning grain and seeds."—Dated 10th September, 1858.

2058. David Cheetham, of Rochdale, in the county of Lancaster, Mechanist, for an invention of "Imprrovements in machinery or apparatus for preparing for spinning, and spinning cotton, wool, and other fibrous materials."—Dated 10th September, 1858.

2071. William Thomson, of the city of Manchester, in the county of Lancaster, Commission Agent, for an invention of "Improvements in bleaching yarn, warps, or similar materials."—Dated 13th September, 1858.

2113. Henry Barrow, of Birmingham, in the county of Warwick, Saddler, for an invention of "An improvement or improvements in cartridge boxes."—Dated 20th September, 1858.

2175. John Morrison, of Birmingham, in the county of Warwick, Machinist, for an invention of "An improvement in or addition to sewing machines."—Dated 30th September, 1858.

25. Robert Tempest and James Tomlinson, both of the Roach Iron Works, Rochdale, in the county of Lancaster, Machine Makers, for an invention of "Improvements in certain machines for preparing cotton and other fibrous materials."—Dated 3rd January, 1859.

75. Ferdinand Lehr, of Hoboken, in the state of New Jersey, United States of America, for an invention of "Improvements in machinery for manufacturing metallic ribs for umbrellas, parasols, and other articles."—Dated 10th January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 5th March*, 1859, *inclusive.*)

3rd March.

549. Thomas Lambert, of the New Cut, Lambeth, for an invention of "Improvements in apparatus for regulating the drawing off of water and other fluids."—Dated 4th March, 1856.

631. Charles Randolph and John Elder, both of the city of Glasgow, in the county of Lanark, Engineers, for an invention of "Improvements in marine engines."—Dated 15th March, 1856.

4th March.

570. John Downie, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in moulding or shaping metals and other materials."—Dated 7th March, 1856.

609. George Rees, of Clerkenwell, in the county of Middlesex, Painter and Stained Glass Manufacturer, for an invention of "An improved method of producing figured or ornamental surfaces on glass."—Dated 13th March, 1856.

761. John McLean, of Glasgow, in the county of Lanark, North Britain, Merchant, for an invention of "Improvements in treating or preparing textile fabrics and materials for increasing the density thereof."—Dated 29th March, 1856.

5th March.

576. Henry Cooke, of Manchester, in the county of Lancaster, Cotton Spinner, for an invention of "Improved machinery or apparatus for dyeing and dressing yarns or threads."—Dated 8th March, 1856.

626. Robert Walter Winfield, of Birmingham, in the county of Warwick, Merchant and Manufacturer, and John Simms, of Fleet Street, in the city of London, Commercial Agent, and Thomas Lloyd, of King's Norton, in the county of Worcester, Brass Founder, for an invention of "Improvements in the construction and ornamentation of metallic bedsteads and other articles of metallic furniture."—Dated 15th March, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

4th March.

761. John McLean, of Glasgow, in the county of Lanark, North Britain, Merchant, for an invention of "Improvements in treating or preparing textile fabrics and materials for increasing the density thereof."—Dated 29th March, 1856.

Errata in Journal of 4th March.

396. For "screws, bolts," read "screw bolts."
456. For "Droissait" read "Droissart."
465. After "Orne" read "in the empire of France."

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 6th January, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 537 of this Journal.)

1. N. Defries, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in gas-meters." — Dated 17th December, 1858.—(English Patent, 12th July, 1858.)
2. Ch. Moissant and Co., represented by J. Saint-hill, of Brussels, for an imported invention of "Improvements in using, treating, and applying natural bitumen of the West Indies."—Dated 18th December, 1858. — (French Patent, 10th April, 1858.)
3. M. Pâquerée, represented by A. Hennelle, of Brussels, for an imported invention of "An apparatus called 'statmograph,' being applicable to steel-yards."—Dated 18th December, 1858.—(English Patent, 1st December, 1858.)
4. L. Gauchez, of Brussels, for "A process for dry teasling and napping fabrics of wool or mixed wool."—Dated 18th December, 1858.
5. S. Ongenaeden, of Ixelles, for "A mechanical break for carriages." — Dated 18th December, 1858.
6. V. Madeline, represented by De Vos-Verraert, Brussels, for an imported invention of "A kind of cards with three cylinders." — Dated 18th December, 1858.—(French Patent, 27th July, 1858.)
7. P. A. Defontaine-Moreau, represented by De Vos-Verraert, of Brussels, for "Improvements in the treatment of fat substances."— Dated 18th December, 1858.
8. A. Rosenthal, of Liége, for "A system of artificial sets of teeth mounted on aluminium."—Dated 16th December, 1858.
9. N. J. J. Honnicheren, of Saint Hubert, for "Ventilating chimneys."—Dated 18th December, 1858.
10. Ch. Steppe, of Brussels, for "The manufacture of lace with needle-stitches and coloured thread." —Dated 20th December, 1858.
11. H. Hutchinson, represented by X. Raclot, of Brussels, for "A mode of obtaining designs on leather, felt, canvass, and other tissues by means of caoutchouc."—Dated 20th December, 1858.
12. C. F. Bailley, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in machines for washing, bleaching, and drying linen."—Dated 20th December, 1858.—French Patent, 3rd November, 1858.)
13. A. Lekieffre, of Namur, for "The manufacture of black from coal."—Dated 21st December, 1858.
14. A. Férandelle, of Brussels, for "A submerged hydraulic wheel."—Dated 21st December, 1858.
15. C. Martin, of Pepinster, for "An apparatus for making bobbins of sliver machines, applied to cards for filamentous substances."—Dated 21st December, 1858.
16. G. J. Martin, of Verviers, for "Spring shuttles for weaving cloth and other tissues."—Dated 22nd December, 1858.
17. F. Buttgenbach-Eglinger, represented by H. Buttgenbach, of Ensival, for "A system of washing coals."—Dated 23rd December, 1858.
18. C. F. Sebille, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A process of manufacturing tinned pipes."—Dated 22nd December, 1858.—(Original Patent, 22nd January, 1858.)
19. W. Munro and A. S. Campbell, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of capsules and other metallic objects."—Dated 22nd December, 1858. —(English Patent, 28th October, 1858.)
20. Messrs. Brondel and Co., represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for utilizing the waste steam of steam engines."—Dated 22nd December, 1858.—(French Patent, 22nd May, 1858.)
21. W. Davis, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in awls and similar articles."—Dated 22nd December, 1858.—English Patent, 10th June, 1858.)
22. S. Grandis, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of railway wedges."—Dated 22nd December, 1858. —(French Patent, 8th December, 1858.)
23. C. J. E. Pavy, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for preserving corn."—Dated 22nd December, 1858.—(French Patent, 6th December, 1858.)
24. G. F. Aroux, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for tilling the soil."—Dated 22nd December, 1858.—(French Patent, 6th December, 1858.)
25. J. Piault, represented by C. Joterat and Cotman, of Brussels, for an imported invention of "Applying advertisements to cards marking the points at games."—Dated 22nd December, 1858. —(French Patent, 30th January, 1857.)
26. J. B. Loiseau, represented by O. Daillencourt, of Brussels, for an imported invention of "A mode of trimming cloaks and other garments of ladies."—Dated 22nd December, 1858.—(French Patent, 8th November, 1858.)
27. H. Kurth, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in mounting umbrellas and parasols." —Dated 22nd December, 1858.—(American Patent, 20th May, 1858.)
28. C. Christinet, represented by A. Daillencourt, of Brussels, for an imported invention of "Manufacture of an alcoholic liqueur."—Dated 22nd December, 1858. — (French Patent, 17th December, 1858.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

29. F. Lombaer, of Molenbeek, Saint Jean, a Patent of Improvement for "Additions to his moveable book-binding."—Dated 22nd Decemcember, 1858.—(Original Patent, 2nd December, 1858.)

30. E. Bona and Dicktus-Lejune, represented by H. Biebuyck, of Brussels, for "A simplified weaving loom."—Dated 23rd December, 1858.

31. D. Frodsham, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in tubular steam-boilers."—Dated 23rd December, 1858.—(English Patent, 13th November 1858.)

32. H. Spiller, represented by L. N. de Mecken, heim, of Ixelles, a Patent of Improvement for "A stereoscopic apparatus."—Dated 23rd December, 1858.—(Original Patent, 24th July, 1858.)

33. G. Collier and J. W. Crossley, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in jointing tubes or pipes."—Dated 23rd December, 1858.—(French Patent, 22nd December, 1858.)

34. Ch. Wheatstone, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in electric telegraphs."—Dated 24th December, 1858.—(English Patent, 2nd June, 1858.)

35. A. L. Poulain, represented by O. Daillencourt, of Brussels, for an imported invention of "A machine for making pins for foot coverings." Dated 24th December, 1858.—(English Patent, 14th December, 1858.)

36. P. J. Lejeune, of Liege, a Patent of Improvement for "Additions to his breech-loading gun."—Dated 22nd December, 1858.—(Original Patent, 23rd November, 1858.)

37. Ch. Layen, of Frameries, for an imported invention of "A system of gins for boring wells and sounding purposes."—Dated 27th December, 1858.—(French Patent, 6th October, 1858.)

38. L. G. de Koninck, of Liege, for "A process for defecating and clarifying sugar."—Dated 28th December, 1858.

39. B. J. Gosteau, represented by L. C. Duru, of Brussels, for an imported invention of "A system of grates, whereby a complete culinary apparatus may be obtained."—Dated 27th December, 1858. (French Patent, 21st June, 1858.)

40. J. C. Martin, represented by L. C. Duru, of Brussels, for an imported invention of "A gas carburator."—Dated 27th December, 1858.—(French Patent, 28th October, 1858.)

41. J. C. Durand, represented by L. C. Duru, of Brussels, for an imported invention of "Improvements in the manufacture of chain cables."—Dated 27th December, 1858.—(English Patent, 29th March, 1858.)

42. J. C. Durand, represented by L. C. Duru, of Brussels, for an imported invention of "Improvements in the manufacture of iron."—Dated 27th December, 1858.—(English Patent, 30th March, 1858.)

43. J. Hall, represented by H. Biebuyck, of Brussels, for an imported invention of "An alternate slide and expansion clack valve of steam engines."—Dated 27th December, 1858.—(English Patent, 12th June, 1858.)

44. L. C. Becasse, represented by X. Raclot, of Brussels, for "A piston can which cannot be upset."—Dated 27th December, 1858.

45. D. A. Morris, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in the manufacture of sheet-iron."—Dated 27th December, 1858.—(French Patent, 26th November, 1858.)

List of Specifications, &c. published during the week ending 4th March, 1859.

No.	Price.	Subject-Matter.
1667	9*d.*	Mercurial level.
1668	5*d.*	Preventing the escape of foul air from drains.
1669	6*d.*	Metallic trimming for pistons, &c.
1671	6*d.*	Furnaces.
1672	3*d.*	Ladies' skirts.
1673	3*d.*	Medicine.
1674	10*d.*	Hydraulic lifting jacks, &c.
1675	6*d.*	Glass roofs, skylights, &c.
1676	1*s.*	Wind musical instruments.
1677	1*s.* 3*d.*	Finishing textile fabrics.
1679	10*d.*	Healds, &c.
1680	3*d.*	Time registers.
1681	10*d.*	Combing fibrous substances.
1682	3*d.*	Indicating the rise of temperature in confined spaces.
1683	1*s.* 11*d.*	Draining and cooling sewage, &c.
1684	3*d.*	Preparation of lubricating matters.
1687	10*d.*	Cleansing gutta percha, &c.
1688	9*d.*	Instruments for measuring angles and taking altitudes.
1689	3*d.*	Furnaces of steam boilers.
1690	6*d.*	Pumps, &c.
1691	5*d.*	Portable folding bedstead.
1692	9*d.*	Engines for raising beer, &c.
1693	9*d.*	Pianofortes.
1694	3*d.*	Soap.
1695	3*d.*	Cooling worts.
1696	3*d*	Finishing the cut edges of matting, &c.
1697	3*d.*	Dye colours.
1698	9*d*	Preventing the priming in steam engines.
1699	3*d.*	Rotary steam engine.
1700	3*d.*	Furnaces for steam boilers.
1701	3*d.*	Candlestick.
1702	3*d.*	Preparation of hydrated oxide of chromium.
1703	9*d.*	Gas meters.
1704	3*d.*	Self-acting mules.
1705	6*d.*	Steam boilers.
1706	6*d.*	Annealing pots for the manufacture of iron, steel, &c.
1707	3*d.*	Generating power from steam, &c.
1708	3*d.*	Telegraphic cables.
1709	3*d.*	Soap.
1710	3*d.*	Obtaining and applying motive power.
1711	1*s.* 9*d.*	Stalls and enclosures for horses, cows, and pigs.
1712	3*d.*	Trusses.
1713	1*s.* 4*d.*	Apparatus for working railway breaks.
1714	9*d.*	Machinery for spinning wool and other fibres.
1715	7*d.*	Machinery for cleaning knives, forks, spoons, &c.
1716	10*d.*	Self-acting apparatus for admitting water to steam boilers, &c.

List of Specifications—*continued.*

No.	Price.	Subject-Matter.
1717	5*d.*	Machine for cutting almonds.
1718	3*d.*	Apparatus for cooling beer, &c.
1719	3*d.*	Apparatus for the infusion of tea, coffee, &c.
1720	3*d.*	Cradle.
1721	3*d.*	Manufacture of iron.
1722	1*s.* 1*d.*	Manufacture of candles.
1723	1*s.* 4*d.*	Centrifugal drying machines, &c.
1724	5*d.*	Treatment of pit coal, &c.
1725	6*d.*	Spinning, doubling, winding, and warping yarns or threads.
1726	10*d.*	Valve.
1727	3*d.*	Candlesticks.
1728	3*d.*	Treating waste vulcanized india rubber.
1729	1*s.* 4*d.*	Combing wool.
1730	3*d.*	Freeing screw propellers from entanglement.
1731	1*s.* 4*d.*	Steam engines.
1732	3*d.*	Manufacture of bricks, tiles, &c.
1733	3*d.*	Hydraulic machinery.
1734	7*d.*	Apparatus for planing electrotype and stereotype plates.
1735	6*d.*	Consuming smoke in furnaces.
1736	10*d.*	Machinery for laying down submarine telegraph cables.
1737	10*d.*	Generating and superheating steam, &c.
1738	6*d.*	Knitting machines.
1739	6*d.*	Barometers, gauges, &c.
1740	7*d.*	Submarine telegraphic cables, &c.
1741	3*d.*	Increasing the effect of decorative pictures.
1742	3*d.*	Electric telegraph cables.
1743	10*d.*	Hydro pneumatic machinery.
1744	10*d.*	Roasting and basting machine.
1745	3*d.*	Machinery for sizing yarn.
1746	3*d.*	Manufacture of bituminous mastics.
1747	10*d.*	Machinery for twisting, doubling, and winding silk, &c.
1748	3*d.*	Apparatus for raising and lowering ships' boats
1749	7*d.*	Fly or screw presses.
1750	6*d.*	Apparatus for drying wool and other substances.
1751	3*d.*	Metallic pistons.
1752	10*d.*	Construction of streets, roads, and ways, &c.
1753	3*d.*	Metallic bedsteads and cots.
1754	6*d.*	Manufacture of iron.
1755	3*d.*	Extraction of bituminous oils, &c.
1756	10*d.*	Apparatus applicable to steam boilers.
1757	3*d.*	Machine for the manufacture of pasteboard and cardboard.
1758	2*s.* 3*d.*	Production of letter press printing surfaces, &c.
1759	10*d.*	Brewing and distilling.
1760	6*d.*	Embossing and printing dies, &c.
1761	3*d.*	Steam boilers.
1762	6*d.*	Inkstands.
1763	9*d.*	Steam boilers, &c.
1764	11*d.*	Machinery for forcing nails and other articles.
1765	1*s.* 10*d.*	Machinery for assorting and preparing silk, &c.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Free Patent Museum and Library, South Kensington.

Numbers of Visitors for the Week ending 5th March, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Feb. 28	Monday -	320	656	976—Fine.
Mar. 1	Tuesday -	232	532	764— „
„ 2	Wednesday	123	98	221— „
„ 3	Thursday*	104	—	104— „
„ 4	Friday -	81	—	81— „
„ 5	Saturday -	235	—	235— „
	Total -	1095	1286	2381

* The Museum closes at 5 o'clock.

Total number of visitors since the period of free daily admission (12th May, 1858) to 5th March, 1859, —75,006.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. Woodcroft.

Great Seal Patent Office,
Southampton Buildings.

Gallery of Portraits of Inventors, Discoverers, and Introducers of Useful Arts. —This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers. — Terms, 30*s.* per annum. — Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 541. FRIDAY, MARCH 11, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

290. To GEORGE ARTHUR WALLER, of the city of Dublin, Brewer to Arthur Guiness, Son, and Co., for the invention of "Improvements in the means of and apparatus for expressing liquid from semi-fluid substances and other substances containing liquid."

On his petition, recorded in the Office of the Commissioners on the 1*st day of February*, 1859.

380. To BENJAMIN BURROWS, of Leicester, for the invention of "Improvements in looms for weaving narrow fabrics."

On his petition, recorded in the Office of the Commissioners on the 10*th day of February*, 1859.

438. To JOHN SOLMONS BENSON, of Birmingham, in the county of Warwick, Merchant, for the invention of "A new or improved method of silvering glass."—A communication from abroad by Mr. Morisson of Hamburg.

On his petition, recorded in the Office of the Commissioners on the 16*th day of February*, 1859.

1466. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for the invention of "Improvements in machinery for doubling threads."—A communication from Adolphe Bouez, residing at Paris.

On his petition, recorded in the Office of the Commissioners on the 19*th day of February*, 1859.

476. To ALFRED TAPERELL, of No. 37, Moorgate Street, in the city of London, for the invention of "Improvements in compositions or compounds used when cleaning glass."

478. And to JOSEPH SCHLOSS, of Cannon Street, in the city of London, Manufacturer, for the invention of "An improvement in locks or clasps for porte-monnaies, pocket books, bags, and other like purposes."—A communication from Vve. Henry Schloss and Frère, residing in Paris.

On both their petitions, recorded in the Office of the Commissioners on the 21*st day of February*, 1859.

488. To WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, for the invention of "Improvements in the utilization of alkali-waste."

On his petition, recorded in the Office of the Commissioners on the 22*nd day of February*, 1859.

490. To SAMUEL RIDGE, of Hyde, in the county of Chester, Millwright, for the invention of "Improvements in coupling or making the joints of pipes and other articles."

492. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improved apparatus applicable to the evaporation of saccharine liquids, and for the concentration of heat for other purposes."—A communication from Augustus Jouan, residing at San Francisco, California.

494. To WILLIAM SHARP, of Bingley, in the county of York, Worsted Spinner and Manufacturer, for the invention of "Certain improvements in machinery for spinning and twisting worsted, cotton, silk, and other fibrous materials."

496. And to SAMUEL RUSSELL, of No. 12, Sheaf Gardens, Sheffield, in the county of York, Britannia Metal Manufacturer, for the invention of "An improvement in the manufacture of handles for tea and coffee pots, jugs, pestles, knives, daggers, and forks, or any other description of article to which handles are applied."

On their several petitions, recorded in the Office of the Commissioners on the 23*rd day of February*, 1859.

499. To JOHN ROBINSON, of Lower House, near Burnley, in the county of Lancaster, Manager, for the invention of "Improvements in machinery and apparatus applicable to machinery for spinning and doubling."

500. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "A new metallic compound or alloy."

501. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement in the manufacture of cast steel."

503. To JOSEPH CROSLAND, of Crosland Moor, Huddersfield, in the county of York, Manufacturer, for the invention of "Improvements in looms for weaving textile fabrics."

504. To ADOLPHE LANÇON, jun., Watch Manufacturer, at Besançon, département du Doubs, empire of France, for the invention of "A new system of watches."

505. To JEAN HENRI GUILLAUME DANIEL WAGNER, of Paris, in the Empire of France, Manufacturer, for the invention of "Apparatus for cleaning water, and removing all matters in suspension and dissolution contained in it, water intended to feed generators of all sorts (applicable also to other purposes), which besides previous to its getting into the generators, is heated to the highest degree without almost any expense."

506. To JOHN DALE, of Cornbrook, in Manchester, and county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in concentrating caustic alkalis, and in applying a product therefrom to the purpose of obtaining motive power, and to other purposes."

507. To ENOCK PRICE, of Doncaster, in the county of York, Railway Contractor, and EDMUND HAWKINS, of the same place, Builder and Contractor, for the invention of "Improvements in the mode of forming fish plates, and in the method of fixing or attaching them to the joints of rails on railways."

508. And to ALFRED CORNELIUS KEILY, of Silchester Road, Notting Hill, in the county of Middlesex, Gentleman, for the invention of "Improvements in apparatus for drawing-off fluids."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of February, 1859.

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509. To ALEXANDER REID, of the city of Manchester, Merchant, and RICHARD TONGE, of the same place, Manufacturer, for the invention of "Certain improvements in weaving, and in the machinery employed therein."

510. To ALEXANDER REID, of the city of Manchester, Merchant, and RICHARD TONGE, of the same place, Manufacturer, for the invention of "Certain improvements in or applicable to looms for weaving."

511. To THOMAS CALLENDER HINDE, of Dudley, in the county of Worcester, Iron Merchant, and GEORGE JAMES HINDE, of Wolverhampton, in the county of Stafford, Merchant, for the invention of "Improvements in coating iron with copper or alloys of copper."

513. To WILLIAM MCNAUGHT, of Manchester, in the county of Lancaster, Engineer, for the invention of "Certain improvements in steam engines, particularly applicable to compound steam engines."

514. To ROBERT FIELDEN, junior, of Walsden, in the county of Lancaster, Picker Manufacturer, and THOMAS FIELDEN, of the same place, also Picker Manufacturer, for the invention of "An improvement or improvements in the manufacture of pickers to be used in looms for weaving, and also in the machinery or apparatus to be employed in the manufacture of the same."

515. To JAMES REDDIE, of Colehill Lodge, Fulham, in the county of Middlesex, Gentleman, for the invention of "An improved mode of propelling and steering vessels."

517. And to WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improved apparatus for spinning, twisting, doubling, and drawing fibrous materials."—A communication from abroad by Messrs. Leroux Brothers, of Tracy-le-Mont, Oise, France.

On their several petitions, recorded in the Office of the Commissioners on the 25th day of February, 1859.

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518. To FREDERICK WEEKES, of Bolney, in the county of Sussex, for the invention of "The treatment of certain alcoholic products."

519. To GEORGE EARNSHAW, of Horbury, near Wakefield, in the county of York, Millwright, for the invention of "The treatment of woollen and other rags and waste of fibrous substances, so as to obtain useful products therefrom."

520. To JAMES LEE, of Saint Helen's, in the county of Lancaster, Grocer, for the invention of "Certain improvements in ploughs."

521. To JOSEPH HINE, of Clerkenwell, in the county of Middlesex, Fancy Cabinet Manufacturer, for the invention of "An improved joint for cabinet making, carpentry, and other constructive purposes."

522. And to WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Improvement Makers, for the invention of "An improvement in reaping and mowing machines."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of February 1859.

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523. To EDWARD GATWOOD, of Great George Street, Westminster, in the county of Middlesex, Carriage Builder, for the invention of "Improvements in buffing traction and bearing springs, applicable to railway carriages and locomotive engines."

525. To ALEXANDER MARTIN, Merchant, and ALEXANDER CRICHTON, Mechanic, both residing in Pollokshaws, in the country of Renfrew, for the invention of "Improvements in weaving and woven goods."

526. To JAMES HOWDEN, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in machinery or apparatus for cutting, shaping, punching, and compressing metals."

527. To JOHN LEIGH, of the city of Manchester, in the county of Lancaster, Surgeon, for the invention of "Improvements in the purification of coal gas."

528. To GEORGE HORNER, of Falls Road, Belfast, in the county of Antrim, Ireland, Machinist, for the invention of "Improvements in hackling flax, and other fibrous materials, and in machinery for the same."

529. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for stopping horses." —A communication from Madame Achet, residing at Paris, in the empire of France.

530. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for taking soundings, applicable also to the throwing of life lines." —A communication from William P. Trowbridge, residing at Washington, Columbia, in the United States of America.

531. To COLLINSON HALL, and COLLINSON HALL the younger, of Navestock, in the county of Essex, Agriculturalists, for the invention of "Improvements in steam agricultural machinery."

532. To ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for the invention of "Improvements in the manufacture of elastic fabrics."

533. To ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in constructing and working condensing engines."—A communication from abroad by John Sutton, of the United States of America.

534. To WILLIAM HODSON, of Kingston Square, Hull, for the invention of "Improvements in rotatory engines."

535. And to RICHARD BROWN, of Earith, near Saint Ives, Huntingdonshire, and WILLIAM MILNE, of Bushey, Herts, for the invention of "Improvements in firearms."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of February, 1859.

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537. To THOMAS CLOAKE, of No. 6, Saville Row, Walworth, in the county of Surrey, Watchmaker, for the invention of "Stopping of the bodies and wheels of railway and other carriages."

538. To JAMES HOLROYD, of Leeds, in the county of York, Cloth Finisher, for the invention of "An improvement in finishing woollen cloths and cloths made from a combination of wool and other materials."

539. To the Reverend HENRY MOULE, Clerk, Master of Arts, of Fordington, in the county of Dorset, for the invention of "Improvements in apparatus applicable to the evaporation of sewage or other waters, and for affording heat for other uses."

540. To JAMES WETHERILT, of Chapel Street West, Mayfair, in the county of Middlesex, for the invention of "Certain improvements in locks."

541. To JOHN EDWARDS, of Fenton, in the county of Stafford, Manufacturer, for the invention of "Improvements in stacking or holding biscuit, earthen, china, and glossed ware for firing."

542. To GEORGE PITT RIVERS Baron RIVERS, of Rushmore Lodge, in the county of Wilts, for the invention of "An improved implement for breaking up and preparing land."

543. To JAMES TEMPLEMAN, of Glasgow, in the county of Lanark, North Britain, Artificial Fuel Manufacturer, for the invention of "Improvements in the manufacture or production of artificial fuel."

544. To JOHN PILE, of West Hartlepool, in the county of Durham, Ship Builder, for the invention of "Improvements in the construction of floating docks."

545. And to DAVID LICHTENSTADT, of No. 1 Henry Cottages, Park Road, Peckham, in the county of Surrey, Chemist, for the invention of "Converting certain vegetable substances into fibrous material for the manufacture of paper, textile, and other fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 1st day of March, 1859.

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547. To PETER CURRIE, General Brass-founder, of Birmingham, in the county of Warwick, for the invention of "Certain improvements in spindles for locks, latches, and other door-fastenings."

549. To JAMES MAXWELL ADAMS, Gentleman, and DAVID LAW and JOHN INGLIS, Ironfounders, all of Glasgow, in the county of Lanark, North Britain, for the invention of "Improvements in fire places, grates, ranges, and stoves."

551. To WILLIAM FRANCIS DEARLOVE, of No. 10, Dartmouth Street, in the city of Westminster for the invention of "An improved chopping machine."

553. To JOHN WILLIAM HARKER, of No. 24, Upper Barnsbury Street, Islington, and JOHN KINGSFORD FIELD, of Upper Marsh, Lambeth, for the invention of "Improvements in coating the bottoms of iron and other ships and vessels." —A communication from abroad by John Cooke Harker and Frederick Field, both of Chili.

555. To CALEB HILL, of Cheddar, in the county of Somerset, Stay Manufacturer, for the invention of "An improved construction of stay fastening."

557. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the construction of grease boxes and bearings generally."—A communication from Joseph Vallot, residing at Paris, in the empire of France, Engineer.

559. To JAMES NEWCOMB, of the city of Bristol, Engineer, and JOSEPH GWYRE LOVELL, of the city of Bristol, Merchant, for the invention of "Improvements in obtaining and applying motive power, especially adapted, amongst other purposes, to the propelling of ships and vessels."

561. And to WILLIAM BROWN, of No. 4 and No. 5, Edgar Place, Mile End, in the county of Middlesex, Pipe Maker, for the invention of "Improve-

ments in the manufacture of pipe mounts or stems, cigar tubes, and similar articles."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of March, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

569. HORATIO LEONARD, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "An improvement in the manufacture of paraffine candles," was deposited and recorded in the Office of the Commissioners on the 3rd day of March, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And notice is also given, that the petition of

570. WILLIAM TUCKER, of the state of Massachusetts, of the United States of America, praying for Letters Patents for the invention of "An improvement in bit stocks or auger handles," was deposited and recorded in the Office of the Commissioners on the 3rd day of March, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

11*th March*, 1859.

2064. JOHN MINTON COURTAULD, of the firm of Samuel Courtauld and Company, of Braintree, in the county of Essex, Crape Manufacturers, for an invention of "An improvement in clearing and preparing silk-crapes, aerophanes, and other like fabrics, lisses, and other gauzes and lace, and in machinery employed therein."—Dated 11th September, 1858.

2065. HENRY PAGE, of Whitechapel, in the county of Middlesex, Glass Merchant, for an invention of "An improved crown or round glass, and apparatus for manufacturing the same." — Dated 11th September, 1858.

2069. LEONARD KABERRY, of Rochdale, in the county of Lancaster, Manager, and THOMAS MITCHELL, of the same place, Manager, for an invention of "Improvements in machinery or apparatus for preparing for spinning and spinning cotton, wool, and other fibrous materials."—Dated 11th September, 1858.

2074. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in refrigerators, and in the treatment of the freezing or cooling material, or materials used therewith." —Dated 13th September, 1858.

2075. SAMPSON HANBURY, of the Birmingham Patent Iron and Brass Tube Company, of Smethwick, in the county of Stafford, Manufacturer, for an invention of "An improvement in the manufacture of tubes of copper, brass, and other metals." —Dated 13th September, 1858.

2081. LUCIEN VIDIE, of Paris, in the empire of France, and 4, South Street, Finsbury, London, Gentleman, for an invention of "Improvements in apparatus for measuring the pressure of fluids by the flexion of diaphragms." — Dated 14th September, 1858.

2090. FRANCIS FOWKE, of Park House, South Kensington, in the county of Middlesex, Captain in the Royal Engineers, for an invention of "Improvements in fire-engines." — Dated 15th September, 1858.

2382. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in the manufacture of candles."—Dated 25th October, 1858.

2424. JAMES DRUMMOND, of Cameron Bank, in the county of Mid-Lothian, North Britain, Farmer, for an invention of "Improvements in reaping and mowing machines." — Dated 29th October, 1858.

2456. PETER ALFRED MAWDSLEY, of Seacombe, in the county of Chester, Smalt Manufacturer, for an invention of "Improved machinery or apparatus for drying yarns after being sized or stiffened, and the use or application of a certain substance or substances, in the sizing, stiffening, or otherwise preparing yarns and woven fabrics, or either of them."—Dated 3rd November, 1858.

2457. PETER ALFRED MAWDSLEY, of Seacombe, in the county of Chester, Smalt Manufacturer, for an invention of "The use or application of a certain substance or substances in the manufacture, stiffening, or sizing of paper."—Dated 3rd November, 1858.

2667. RICHARD HENRY HESS, of Islington, in the county of Middlesex, Engineer, for an invention of "A new manufacture of articles, parts of articles, parts of machinery surfaces and ornamental works from talc and other silicates of magnesia." —Dated 24th November, 1858.

2862. JOSEPH WADE, of Bradford, in the county of York, Manufacturer, for an invention of "Improvements in means or apparatus employed in weaving."—Dated 14th December, 1858.

2878. THOMAS MOSS, of Gainsford Street, Islington, in the county of Middlesex, for an invention of "Improvements in printing bank notes, bills of exchange, and other documents requiring like security against being copied."—Dated 15th December, 1858.

21. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "Improvements in machinery for forming dough into cakes or bread crackers." —Dated 1st January, 1859.

94. JOSEPH HANDS, of Elgin Crescent, Notting Hill, in the county of Middlesex, Surgeon, for an invention of "Improvements in preserving or preparing skins intended to be converted into leather or otherwise manufactured."—Dated 12th January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 9th March*, 1859, *inclusive.*)

7th March.

635. Charles Benjamin Normand, of Havre, in the empire of France, Ship Builder, for an invention of "Improvements in the treatment and employment of steam in steam-engines, and in apparatus for effecting the condensation of steam."—Dated 17th March, 1856.

762. Charles Benjamin Normand, of Havre, in the empire of France, Ship Builder, for an invention of "Improvements in steam-boilers, in apparatus for applying heat to steam-boilers, and economizing heat of furnaces."—Dated 29th March, 1856.

8th March.

586. Joseph Davy, of Manningham, near Bradford, Machine Maker, and John Milnes, of Clayton West, near Huddersfield, both in the county of York, for an invention of "Improvements in looms for weaving plaids, plain weaving and flounces, or other ground work."—Dated 10th March, 1856.

9th March.

846. William Henry Gauntlett, of the South Bank Iron Works, Eston Junction, near Middlesbro'-on-Tees, for an invention of "Improvements in thermometric apparatus."—Dated 7th April, 1856.

897. William Smith, of Aston, near Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in the manufacture of steel wire for musical and other purposes."—Dated 15th April, 1856.

FOREIGN PATENTS.

UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 22nd February, 1859, and each bearing that date.

No. 23,004. Thomas J. Alexander, of Westerville, Ohio, for an "Improved method of operating reciprocating saws."

"What is here claimed as new and useful is reciprocating the saw by means of right and left hand rocking levers or drivers, jointed to or otherwise connected with the saw, when said levers are separately hung or pivoted and geared together for reverse action, and so arranged as to admit of being worked by the hands of the operator, substantially in the manner specified."

No. 23,005. Henry Adolphe Archereau, of Paris, France, for an "Improvement in preparation of artificial fuel."—Patented in France, 11th August, 1856.

"Having now described my invention of an improved mode of treating and combing various combustible matters or substances for the production of artificial fuel, and having explained the manner of carrying the same into effect, I would observe that I claim as my invention, producing artificial fuel by stirring, mixing, or incorporating coal dust or small coal, peat turf, liguite, or other combustible substances, with rosin, pitch, tar, or other resinous, bituminous, or carbonaceous matters or substances, in any suitable proportions, according to the nature of the materials employed, and by causing steam, hot air, or gases to pass through the mass during the stirring or mixing operation, or while the carbonaceous and bitumenous particles are in motion. I also claim mixing pulverized carbonaceous matters with melted pitch, tar, or other bitumenous substances when the latter are worked up into a frothy state, as above described."

No. 23,006. Luther Atwood, of Brooklyn, N. Y., for an "Improvement in apparatus for destructive distillation."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, viz., the arrangement and combination of the combustion tower, distilling tower, and steam blast, or their substantial equivalents, in combustion, when arranged, combined, and operated substantially as herein-before described."

No. 23,007. Henry Benter, of Wheeling, Va., for an "Improved machine for jointing staves."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the carriage C, provided with rollers *i*, and used in connection with the adjustable guides *a*, *b*, and rotating cutter-head *e*, substantially as and for the purpose set forth. 2nd, the adjustable plate *s*, in connection with the stationary jaw *j*, and sliding jaw *k*, attached to the carriage *c*, substantially as and for the purpose specified."

No. 23,008. Edmund Bigelow, of Springfield, Mass., for a "Measuring faucet."

"What I claim as my invention, and desire to secure by Letters Patent, is, an improved self-measuring faucet, whose supply valve is closed and discharge valve opened by a single movement, and when discharge valve is closed and supply valve opened by a single movement produced by a spring, and which is supplied with a vent pipe for letting out the air, and another vent pipe for letting in the air, when the faucet is to be discharged, which last vent pipe is shut off, when the faucet is to be filled or is standing full, substantially as above described."

No. 23,009. Wm. Blanchard, of Washington, D. C., for an "Improvement in casting stereotype plates."

"I do not claim anything new in the method herein described, of fastening the flexible mould plates. I do not claim the casting of stereotype plates for printing by immersion, as a novelty; but what I claim as my invention, and desire to secure by Letters Patent, is, casting stereotype plates for printing, by immersing a metallic mould plate with a mould or matrix, formed upon and adhering to it, substantially as herein described. I claim the manner of casting any number of stereotype plates by immersion or otherwise, in which each mould plate holds on one of its sides a matrix, whereon the face of the stereotype plate is cast in one compartment, while its reverse side in another compartment is used as a matrix, whereon to cast the back of another stereotype plate, substantially as herein described."

No. 23,010. Benjn. Burling, of Buffalo, N. Y., for an "Improved propeller for canals."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, propelling canal boats or other craft by means of a steam tug B, placed within a well hole *a*, at the stern and connected therewith by the shackle *b*, and stancheons *c*, *d*, or their equivalents, substantially as and for the purpose set forth."

No. 23,011. N. F. Burnham, of Laurel Factory, Md., for an "Improved water whee ."

"I am aware that the French turbine (jouval) receives power from the lower part of the bucket the same as mine. I do not claim, therefore, the lower end of the bucket R; but what I do claim as new, and desire to secure by Letters Patent, is,—1st, I claim the concave hub, as represented in Fig. 3, in combination with the bucket, as represented in Fig. 4, which forms the wheel. 2nd, I claim the chutes or guides in combination with the wheel, by which one-fourth, one-half, three-fourths, or all the water can be admitted to the wheel, and in each case get the same presentage from the amount of water used."

No. 23,012. Alonzo Chubb, of Painesville, Ohio, for an "Improved machine for bending wood."

"Having described the nature, construction, and operation of my improvements, what I claim therein as new, and desire to secure by Letters Patent, is, the following,—1st, I claim the combination and arrangement of the strap U with the guides M, in the manner and for the purposes set forth. 2nd, I claim making the guides adjustable by the use of the slots therein, and of corresponding ones in the bed timbers, as shown, and for the purposes set forth."

No. 23,013. Thos. W. Currier, of Lawrence, Mass., for an "Improved triangular stand for furniture."

"I claim the arrangement of the triangular plates B and C, with legs A, on the axle E, as and for the purpose specified."

No. 23,014. Wm. C. Davol, of Fall River, Mass., for an "Improved vegetable cutter."

"I do not claim, separately, any of the parts herein shown and described; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the bed plate A, having the hopper D attached, provided with the follower E, the vibrating plate lever B, provided with the double-edged knife C, and hook *f*, and attached to the bed plate A, the whole being arranged and combined to operate as and for the purpose set forth."

No. 23,015. Henry N. Degraw, of Green Island, N. Y., for an "Improved bootjack."

I am aware that bootjacks with movable jaws have heretofore been constructed; I do not lay claim, therefore, on this part of my invention; but, having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the arrangement of a guide piece G for the purpose of operating the jaws C, as herein described, in combination with a swinging platform D, which rests on pivots *c* at points between its front and back ends, so that it can be operated by throwing more or less weight on the heel or on the toes of the foot placed on the same, substantially in the manner and for the purpose specified."

No. 23,016. Benneville Dewalt and Chas. E. Schrader, of Reading, Pa., for an "Improved meat cutter."

"What we claim, and desire to secure by Letters Patent, is, the arrangement of the knives D in a screw form in different directions from the ends of the cylinder B to the centre thereof, to discharge the meat at the adjustable opening F in the bottom, in the manner and for the purposes described."

No. 23,017. M. Doherty, of Boston, Mass., for an "Improvement in cricket bats."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, constructing the blade of the bat of a wooden shell with a filling of cork or other elastic material, substantially as described. 2nd, constructing the handle of the bat of a wooden tube with a central strip of whalebone or other elastic material of similar character running down into the blade, substantially as herein described."

No. 23,018. John Evans, of New Haven, Conn., for an "Improved machine for bending and setting springs."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1st, the adjustable or sectional bed formed of the bars *i* connected to the weights *k*, and arranged, substantially as shown, for the purpose specified. 2nd, the adjustable clamps or straighteners formed of the strips *b*, *e*, placed on rails or bars F, G, and arranged as and for the purpose set forth. 3rd, the adjustable or sectional bed formed of the bars *i*, as described, and the adjustable clamps or straighteners formed of the strips *b*, *e*, placed on the rails F, G, in combination with the adjustable dies M, M, arranged to operate as and for the purpose set forth."

No. 23,019. James L. Fagan, of Anagua, Texas, for an "Improved pump."

"I do not claim, separately, any of the parts herein shown and described, irrespective of their particular arrangement and adaptation for a submerged pump, for rotary pumps, or those having a partial rotating reciprocating movement, have been arranged similarly to the within-described invention; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the cylinder A and hollow shaft B, connecting with each other, as shown, and having a reciprocating, partially rotating movement, when said cylinder is perforated, as at *h*, and provided with valves *i*, and also provided with the piston G, with the stationary plate I fitted within it, the whole being arranged as and for the purpose set forth."

No. 23,020. Winfield S. Foster, of Marilla, N. Y., for an "Improved clothes rack."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the rods B and heads A, C, with the side pieces of the expanding clothes rack, in the manner and for the purpose specified."

No. 23,021. James H. Freeto, of Wheaton, Ill., for an "Improvement in coffee-pots."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of valves *i* and *l*, in the condensing chamber H, in connection with the pipes L and K, whereby the steam which escapes through the valve *i* is carried off and deposited in a liquid state, into the spout, while at the same time, by the action of the steam, a jet of cold water is admitted into the chamber H, substantially as and for the purposes specified. And I also claim closing the opening *c*, through which the spout D communicates with the coffee-pot A, by means of a flat valve E, which is operated by a rod *d*, when the same is applied to a coffee-pot, which is hermetically closed by a gasket *g*, in connection with the air tube *o*, substantially as and for the purpose specified."

No. 23,022. Geo. W. Gardner, of Troy, N. Y., for an "Improvement in moulding covers of cook stoves."

"Having thus set out my invention, what I claim as new, and desire to secure by Letters Patent, is, combining with that part of the pattern which gives form to the recess of the cover the pivoted projections, as and for the purposes herein set forth."

No. 23,023. John M. Hall, of Warrenton, Geo., for an "Improvement in ploughs."

"Having thus described my invention, what I claim is, the arrangement of the adjustable coulter bar C, point *f*', holes *f*, shoe F, mole board E, adjustable screw bolt D, attachment Z, pins *g*, key *h*, bolts *j*, and slot in beam A, operating as described, and for the purposes set forth."

No. 23,024. John S. Hall, of Manchester, Pa., for an "Improvement in plough beams."

"Having thus fully described the nature and object of my invention, I would state, that I do not claim a tubular plough beam; but what I do claim as new, and desire to secure by Letters Patent, is, an iron or steel plough beam of an inverted 'U' form throughout its main length, and welded or compressed at its ends, and so made as to be capable of receiving the top of the standard into its hollow portion, and be otherwise conveniently connected to or with the other portions of the plough, and so as to make a cheap and efficient junction of the several parts thereof, and produce a cheap, strong, and durable plough beam, as herein set forth."

No. 23,025. W. O. Hickok, of Harrisburgh, Pa., for an "Improved machine for cutting straw and hay."

"I do not claim, broadly, connecting the pinion on the cutter shaft, with the feed rollers vibrating in guides; neither do I claim the arrangement of a shaker between the feed rollers and the cutters; but what I claim as new, and desire to secure by Letters Patent, is, the arrangement in combination with the upper or yielding feed roller (E) and the cutter shaft (*f*) of the coupling lever (G), when the said lever (G) connects the said feed roller (E) with the cutter shaft (*f*), by having its fulcrum around the said shaft (*f*), and also carries the pinion (6) which connects the pinion (7) of the shaft (*f*) with the spur wheel (8) of the near journals of the feed roller (E), as set forth, the journals of the said feed roller (E) working in grooves (*x*), which are curved, so as to

be concentric with the said cutter shaft (*f*), as described, the same operating together in the manner and for the purposes set forth and described."

No. 23,026. Chas. Hilton, of Albany, N. Y., for an "Improvement in railroad splice for R. R. track bars."

"I do not claim the use of the plates nor the wedge, broadly; but I do claim deep wrought iron fish-plates secured to the sides of the rails by bolts or keys, and extending downward below the base of the rail, in combination with the gib and wedge, substantially in manner and for the purposes set forth in the within specification."

No. 23,027. N. E. Hinds, of Cooperstown, N. Y., for an "Improvement in horse and ox shoes."

"What I claim as my invention, and wish to secure by Letters Patent of the United States, is, I claim the curved or semi-circular form of the heel calks, with the corners thereof turned inwards, or towards the central part of the shoe."

No. 23,028. L. B. Hoit, of New York, N. Y., for an "Improvement in fountain brushes."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent as a new article of manufacture, is, a marking brush, consisting of a cistern A, which is provided with a stationary valve *c*, and having the brush attached to a conical tube G, which fits into a shell E, and otherwise constructed, substantially as herein described."

No. 23,029. Moses G. Hubbard, of Penn Yan, N. Y., for an "Improvement in harvesters."

"Having thus fully described my apparatus, and its purposes, what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the curved portion of the finger bar, hinged at "*a*," with the spring "*d*," forming a yielding and elastic corner or point of attachment, of sufficient strength to securely connect the cutting apparatus thereto, substantially as and for the purposes set forth. I also claim the auxiliary adjustable spring "H," or its equivalent, substantially as and for the purposes described."

No. 23,030. Edwd. Kendall, of Cambridgeport, Mass., for an "Improvement in steam-boilers."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the arrangement of the water walls A, A, B, B, the suspended water spaces F, F, flues H, H, fire-box G, lower and upper smoke boxes J, M, and tubes L, L, within the shell of the boiler, substantially as herein set forth. 2nd, in combination with the above-described arrangement of water spaces and heating surfaces, I claim the arrangement of the hollow fire bridge O, the pipes *a*, *a*, and *b*, the cylinder N, and pipes *c*, *c*, the whole operating substantially as herein set forth. 3rd, the arrangement of the passages for the gaseous products of combustion, the exhaust steam, and the air in the air heater, substantially as and for the purpose herein set forth."

No. 23,031. Zebulon Kinsey, of Dubuque, Iowa, for an "Improvement in packing bar lead."

"What I claim, and desire to secure by Letters Patent, is, the use of the bar or bolt B, made substantially as described, when inserted in perforations made in bars or ingots, and clenched or fastened in the manner substantially and for the purpose aforesaid."

No. 23,032. Thos. W. Lane, of Meredith, N. H., for an "Improved steam-pressure gauge."

"What I claim as my invention, and desire to secure by Letters Patent, is, so combining the indicating tube with the pipe through which the pressure within the boiler is transmitted to the gauge that the length of tube, in either direction from its junction with the pipe, shall not exceed a semi-circle, and placing the tube in such a position that it shall descend at every point towards its junction with and drain back into the pipe. 2nd, I claim joining the pipe from the boiler with the indicating tube at a point between its two ends, and bending the latter, as set forth, so that the ends of the tube shall be nearly over the points where its two branches are rigidly supported, whereby the tube is rendered less sensitive to the vertical shocks to which it is subjected. 3rd, I claim bending the two portions of the indicating tube symmetrically, or nearly so, upon opposite sides of a vertical line, as described, and connecting the two extremities of the tube with the lever *i*, as set forth, for the purpose of preventing the horizontal vibrations of the tube from being transmitted to the index hand. 4th, I claim pivoting the lever *i* to the indicating tube without attachment to the case, for the purpose specified."

No. 23,033. Robt. B. Lawton and Wm. H. Bliss of Newport, R. I., for an "Improvement in hose coupling."

"We do not claim connecting the two parts or thimbles C, D, together, by means of a screw or pin passing through one thimble and fitting in a groove in the other, for such coupling or connection is well known, and has been used, if not for the same, for analogous purposes; but, having thus described our invention, what we do claim as new, and desire to secure by Letters Patent, is, the two thimbles C, D, attached to the ends of the hose A, B, the thimble C being provided with the shoulder *b* and ground seat or packing *c*, and the thimble D provided with the groove *e*, with inclined sides, and fitted within thimble C, the above parts being used in connection with the conical roller or rollers *g*, fitted in the screw caps *i*, and the whole arranged to operate as and for the purpose set forth."

No. 23,034. Joseph L. Lowry, of Pittsburgh, Pa., for an "Improvement in fire-plugs."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is,—First, making a single chamber serve the purpose of a cross pipe, when each main leading into said chamber is furnished with its own stop cock, and access is had to each stop cock through said chamber for repairs, &c., thus making one chamber and one cover common to two, three, four or more mains, substantially as herein set forth. I also claim arranging the fire plug immediately over the chamber for the purpose of effecting a circulation of the water in the pipe between the main and the fire plug, to prevent its freezing, as herein stated. I also claim, in combination with the valve *v* and its wings *w*, as described, the hollow set screws *s* for, wasting the water from the fire plug when said valve is closed, substantially as described. I also claim the removable gasket *c* in the ends of the branches or bowls *y*, so as to renew the seats for the valves *b*, when necessary, without disturbing the main or stop cock, access to these gaskets being through the common chamber *j*, as herein stated."

No. 23,035. Louis Mabille, of New York, N. Y., for an "Improvement in watch cases."

"I do not claim the movable plate D, when applied and fitted to and combined with the case, otherwise than as herein described; but what I claim as my invention, and desire to secure by Letters Patent, is, the construction of the case, substantially as herein described, with the front plate D fitted to the ring or frame C, with a projecting rim *e*, and bezel *i*, all the way round, when combined with an internal cavity, *d*, *d*, in the back, to receive and contain the said plate when removed from the front."

No. 23,036. Saml. Marshall, of Wilmington, Del., for a "Curtain lock for carriages."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the two metal plates, constructed as described, in combination with the button and button hole of the carriage and curtain, and with the spring fastening; the whole being arranged and used in the manner and for the purposes herein set forth."

No. 23,037. Alexr. Miller, of Cleveland, Ohio, for an "Improved water-gauge for steam-boilers."

"I do not claim, broadly, attaching an index to the stem of the alarm valve of an alarm water-gauge; but what I claim as my invention, and desire to secure by Letters Patent, is, operating the valve *d* of an alarm gauge to produce the alarm when necessary, by means of a cam or wiper, *h*, on the valve stem D, and a stationary inclined projection *g*, on the socket or tube A, or its equivalent, the several parts being arranged and applied in combination with a float attached to the stem, substantially as herein set forth."

No. 23,038. James Montgomery, of New York, N. Y., for an "Improvement in corrugated iron pavement."

"I claim as new, and of my invention, and desire to secure by Letters Patent, 1st, the arrangement and combination substantially as described, of the unequal ribs or corrugations A and B, for the purpose set forth. 2nd, the described form and application of the laterally projecting spurs C, for the purposes explained. 3rd, the dovetailed groove shown in fig. 4, applied to metallic paving, and employed as set forth, to retain within it concrete and other matter."

No. 23,039. Henry Montgomery and Simeon Howes, of Silver Creek, N. Y., for an "Improvement in grain separators."

"Having thus fully described our improvements, what we claim as our invention, and desire to secure by Letters

Patent, is, the aperture U, when situated immediately below the inclined board S, and in combination therewith, for the purpose specified."

No. 23,040. L. F. Munger, of Rochester, N. Y., for an "Improvement in locks."

"I am aware that sliding tumblers have been previously used, and also saw plate or thin flat keys provided with notches of varying depths, corresponding with the varying positions of the slots in the tumblers; I therefore do not claim, separately, the above parts; but, having thus described my invention, what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the knob E, with the tumblers C, and bolt B, the said knob having studs (*g*) and (*h*) out of line with each other; one stud (*h*) being in line with the bolt, and the other stud (*g*) being in line with the tumblers; so that when the key G is inserted, one of the studs (*g*) shall pass by the tumblers while the bolt B is shot out by the other stud (*h*), and when the key G is withdrawn, and the direction of knob E reversed, the stud (*g*) shall lift the tumblers, and thus prevent the picking of the lock by the insertion of a key, all as herein shown and described, for the purpose set forth."

No. 23,041. Putnam D. Nichols, of Hartford, Conn., for an "Improved screw-plate."

"I do not claim as new the circular dies. What I claim as my invention, and desire to secure by Letters Patent, is, the adjusting steady pins and set screws, with the sliding plate K attached to the regulating rod and screw G, H, in the manner as described, in combination with the method of adjusting and regulating the dies for operation, in the manner substantially as set forth."

No. 23,042. Henry Oliver, of Philadelphia, Pa., for an "Improvement in brooches, ear-rings, &c."

"I am aware that sun pictures have been produced upon the inner surfaces of planes of transparent material, and that temporary concave fields have been suggested to overcome the spherical aberation of the lenses in the production of pictures having a plane surface; but what I claim as my invention is, photographic or sun pictures upon concave surfaces of glass, and backing it up with cement, in the manner and for the purpose substantially as above specified."

No. 23,043. Rufus Porter, of Washington, D. C., for an "Improved blind fastening."

"What I claim as my invention is, the combination of the lateral catches with the elevated finger socket, the whole consisting of a single plate, which is so formed that while the catch end thereof is horizontal and constitutes right and left catches, and is connected to the bottom of the shutter, the opposite end is vertical, and is connected to the face of the shutter at some distance above the bottom thereof, and constitutes a finger socket or hook near the hinged edge of the shutter, to be drawn back by a finger for the purpose of unfastening the shutter (when open), and closing the same, as herein described."

No. 23,044. Chas. W. Richter, sr., of Madison, Geo., for an "Improvement in lamps."

"I claim the combination of chamber D and tubes I, I, and T, with the non-conducting medium C, *c*, above plate P, the arrangement being substantially as described. I also claim the manner of moving the wick within the tube T, in combination with the construction above described."

No. 23,045. Saml. Samuels, of Brooklyn, N. Y., for "Improved stalls for horses on shipboard."

"What I claim as my invention, and desire to secure by Letters Patent, is, suspending a horse box on board of a ship or other vessel on pivots or centres, having their axes arranged transversely to the box, and parallel or thereabouts with the length of the vessel, substantially as and for the purpose herein set forth. And I also claim combining a series of two or more so suspended boxes, substantially as and for the purpose herein described."

No. 23,046. Joseph Saxton, of Washington, D.C., for an "Improvement in seal presses."

"What I claim as my invention, and desire to secure by Letters Patent, is,—First, a sealing press operated by a lever, to which the stamp is attached by an adjustable joint, the whole being adapted to the purpose of sealing with fusible metal or alloy, substantially as above described. Secondly, the guard for retaining the excess of metal driven off from the seal in the act of making the impression."

No. 23,047. Henry C. Spalding, of Brooklyn, N. Y., for "Improved curtain fixtures."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the narrow rim *f*, in combination with a roller having end play, as described. 2nd, the combination of the roller, flange, and cord, as set forth. 3rd, the combination of the two hangers with the roller, the cord, and the rack, constructed substantially as described, and operating in the manner set forth."

No. 23,048. Henry C. Spalding, of Brooklyn, N. Y., for an "Improved treadle stand."

"What I claim as my invention, and desire to secure by Letters Patent, as a new and improved article of manufacture, is, a self-sustaining skeleton treadle frame, composed of sections secured together at right angles, substantially as described, so that the frame is self-braced crosswise, and lengthwise with the table which it supports."

No. 23,049. Robt. R. Taylor, of Reading, Pa., for an "Improvement in apparatus for ventilating R. R. cars."

"I do not desire to claim, broadly, the forcing of air into railway cars by a blowing apparatus operating by the axles, as such a device is described in the Patents of R. Cook, Aug. 19th, 1851, and J. H. Taylor, Oct. 30th, 1855; nor do I claim an air pump or air pumps operated by the axles, as they have been heretofore used in connection with pneumatic car springs; I also disclaim the rotating ventilating valves M, the same, or their equivalents, having been heretofore used; but I claim, and desire to secure by Letters Patent, the blowing cylinder G hung to one of the trucks of the car, and operated from one of the axles by means of an eccentric D or other equivalent device, in combination with the flexible or self-accommodating inlet and discharge pipes I and H, and the distributing pipes K, the whole being arranged substantially as and for the purpose herein set forth."

No. 23,050. G. H. Waldin, of Burlington, Iowa, for an "Improved chuck for watchmakers' lathes."

"What I claim by my invention, and desire to secure by Letters Patent, is, the use of the cylindrical core or spindle C in connection with the thimble *d* for containing sealing wax, or its equivalent, the whole constructed and operated as specified."

No. 23,051. J. L. G. Ward, of Adrian, Mich., for an "Improvement in cementing roofs."

"I do not claim, broadly, the use of alkaline silicates applied as a protection to the walls or other parts of buildings; but what I claim as my invention, and desire to secure by Letters Patent, is, the covering of roofs of buildings by laying bricks or tiles or slabs of other material in a bed of cement, consisting of an alkaline silicate, and subsequently treating the surface of said cement with an acid which combines with the alkali thereof and leaves a surface of pure silica, substantially as herein described."

No. 23,052. Francis F. Wells, of Texana, Texas, for an "Improvement in pessaries."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination with the ring A of the hinge jointed and slotted standing supports *c*, *c*, and their stem *d*, the hinged sliding support *g*, the hinged arm *i*, the collar *m*, or its equivalent, and the plate B, the whole applied and operating in relation to each other, substantially as herein set forth."

No. 23,053. Chas. Weston, of Salem, Mass., for an "Improvement in apparatus for handling hides."

"Having thus fully described my improvements, I shall state my claim as follows:—What I claim as my invention, and desire to have secured to me by Letters Patent, is, the apparatus herein described for keeping hides in motion while exposed to the action of the tanning liquid, the same consisting of parts constructed and arranged in relation to each other, as described, so as to operate substantially in the manner and for the purposes set forth."

No. 23,054. Philip P. Weis and F. Schutte, of Philadelphia, Pa., for an "Improved feeding mechanism for sawing machines."

"We claim, and desire to secure by Letters Patent, the adjustable frame N with its rollers *h*, the pressure frame P with its rollers *i*, and the feeding screws M, in combination, the whole being arranged substantially as and for the purpose specified."

No. 23,055. C. P. Wilhelm, of Bridgeport, Pa., for an "Improvement in key-bolt for attaching carriage thills."

"I do not claim as new of themselves either the key-bolt or the spiral spring; but what I do claim as new, and desire to

secure by Letters Patent, is, the manner described of fastening shafts and poles to carriages by the arrangement of the bolt B, *b*, spiral spring *c*, and clips c^1, arranged and operating as set forth."

No. 23,056. Walter A. Wood, of Hoosick Falls, N. Y., for an "Improvement in harvesters."

"Having thus fully described the nature and object of my invention, what I claim therein as new is,—First, connecting the bent bar J to the axle, and allowing its other end free vertical motion between guides, substantially in the manner described. I also claim in combination with the bent bar J, for sustaining the finger and cutter bars, the continuation of the finger bar, and its attachment to the main frame, substantially in the manner and for the purpose set forth."

No. 23,057. Walter A. Wood, of Hoosick Falls, N. Y., for an "Improvement in mowing machines."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, connecting the bent bar that carries the finger and cutter bar to the main frame by the spring plate M, and to the axle by the loop *d*, so that the finger bar may rise and fall independent of the wheel or main frame, or the main frame independent of the finger bar, substantially as herein described."

No. 23,058. Lewis S. Chichester, of New York, N. Y., assignor to David L. Wintringham, of Jersey City, N. J., for an "Improvement in machine for corking bottles."

"I do not claim broadly the employment or use of toggles for operating the bar F, for they are a well-known mechanical device, and have been used for analogous purposes; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the toggles E, E, frame G, and bar F, provided with the plungers *d*, in connection with an adjustable bottle stand K, and bar C, provided with the tubes *a*, a^1, a^{11}, for the purpose specified. I further claim the particular manner of adjusting the bottle stand K, to wit:—attaching the same to the frame G by means of the lever I, bar J, arms *k*, *k*, cross bars *m*, and plates *l*, substantially as shown and described."

No. 23,059. Chas. E. Clark, of Boston, Mass., assignor to himself and Geo. W. Clark, of Boston aforesaid, for an "Improvement in catamenial bandages."

"What I claim is, my improved manufacture of menstrual receiver, as made of two inflatable waterproof crescentic-shaped vessels, united by a waterproof septum, and arranged together and with the septum, and provided with means of supplying them with air and discharging it therefrom, substantially as specified."

No. 23,060. Moses G. Farmer, of Salem, Mass., assignor to Wm. F. Channing, of Boston, Mass., for an "Improved electro-magnetic fire alarm apparatus."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the combination of two or more key-boards or fire alarm strikers, constructed and operating substantially as described, with one or more electro-telegraphic alarm machines, in the same closed electric circuit, or independent closed electric circuits, by means of a mechanism that will make and break a circuit, as herein shown and described."

No. 23,061. Jonathan Good, of Philadelphia, Pa., assignor to himself and B. L. H. Dabbs, of said Philadelphia, for an "Improvement in R. R. car seats and couches."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the pivoted horizontally and vertically moving plate C, curved ratchet plates J, rack extension D, and pinion (C), as and for the purpose herein shown and described."

No. 23,062. Wm. Hinds, of Little Falls, N. Y., assignor to Jerome Hinds, of same place, for an "Improvement in straw cutters."

"What I claim as my invention, and wish to secure by Letters Patent, is, the arrangement of the cutters *c*, *c*, in combination with the cutter *n*, fig. 1, constructed substantially as and for the purpose set forth."

No. 23,063. Lyman Hyde, of Ellenville, N. Y., assignor to the Ellenville Glass Company, for an "Improvement in machines for finishing carboys."

"I do not claim the 'shears' or formers C, for they have been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the 'shears' C, treadle F, or its equivalent mandrel *b*, and furnace B, placed within a suitable frame A, and arranged for joint operation, substantially as and for the purpose set forth."

No. 23,064. A. W. Morse, of Eaton, N. Y., assignor to himself and R. B. Robie, of said Eaton, for an "Improved bed bottom."

"Having set forth the construction and operation of my improved bed bottom, what I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the rods B, gear wheels A, staples G, pins H, wires C, or their equivalents, lever F, ratchet roller D, pawl E, for the purpose of giving the proper tension lengthways and sideways simultaneously, substantially as set forth."

No. 23,065. L. R. Rockwood, of Worcester, Mass., assignor to J. L. Clough, of said Worcester, for an "Improvement in blacking."

"What I claim as new, and desire to secure by Letters Patent, is, edge blacking, when composed of the above mentioned materials, in the proportions and manner substantially as set forth and described."

Re-issue.

Saml. Friend and Geo. Seiler, of New York, N. Y., for "Extension finger ring."—Patented 21st December, 1858.—Re-issued 22nd February, 1859.

"What we claim as our invention, and desire to secure by Letters Patent, is, a divided springing ring, constructed substantially in the manner and for the purposes specified, whereby the springing of the ring permits the same to pass the joints, as set forth."

Design.

Wm. Loyd, of Philadelphia, Pa., for a "Design for stereoscope cases."

"What I claim as a new and ornamental design is, making a stereoscope case in the form of a book, as described and shown."

Additional Improvement.

Henry T. Smith, of Washington, D. C., for an "Improvement in spring bed bottoms."—Patented 6th October, 1857.—Additional Improvement, dated 22nd February, 1859.

"Having thus described my improvement in spring slatted bottoms for bedsteads, what I claim therein as new, and desire to secure by Letters Patent, is, supporting the fixed end of the longitudinal slats in spring bottoms bedsteads by means of longitudinal spring bars, substantially as described, so that the elasticity or yielding of both ends of the slats may be equalized, for the purpose set forth."

Errata in Journal of 8th March.

2472. For "Thomas Briggs, Smith," read "Thomas Briggs Smith."

2685. For "Edward" read "Edwin."

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NOTICE is hereby given, that

2453. VICTOR BLUMBERG, of Bloomfield Lodge, Notting Hill, in the county of Middlesex, Gentleman, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the construction of slate billiard tables, which improvements are also applicable for other useful purposes."

As set forth in his petition, recorded in the said office on the 3rd day of November, 1858.

2461. And JOHN OXLEY, of Camden Town, has given the like notice in respect of the invention of "Improvements in carriages and wheel vehicles."

2467. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in treating air and gases, and the employment of the same for obtaining motive power."—A communication.

2468. And ISHAM BAGGS, of Kennington, in the county of Surrey, Electrical Engineer, has given the like notice in respect of the invention of "Improvements in telegraphing by electricity."

As set forth in their respective petitions, all recorded in the said office on the 4th day of November, 1858.

2474. And ELLIS ROWLAND, of Manchester, in the county of Lancaster, Engineer, and JOHN DEWHURST, of the same place, Engineer, have given the like notice in respect of the invention of "Certain improvements in steam engines, and in the valves connected therewith, which said improvements in valves are also applicable to safety valves."

As set forth in their petition, recorded in the said office on the 5th day of November, 1858.

2481. And HERBERT NEWTON PENRICE, of Wilton House, near Norwich, has given the like notice in respect of the invention of "Improvements in machinery for tunnelling and driving galleries through rock and other strata."

2485. And JOHN CLIFF, of the Imperial Potteries, Lambeth, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the construction of kilns for burning stoneware, redclay ware, porcelain, and all other kinds of earthenware."

As set forth in their respective petitions, both recorded in the said office on the 6th day of November, 1858.

2495. And JONATHAN WARDILL, of Commercial Road, East, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in purchases for the raising and lowering of weights by means of chains especially applicable to ships, capstans, and windlasses."

2496. And THOMAS MACSWENEY, of 25, Rood Lane, in the city of London, has given the like notice in respect of the invention of "Improvements in steering apparatus."

2497. And WILLIAM HALE, of No. 6, John Street, Adelphi, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in rockets."

As set forth in their respective petitions, all recorded in the said office on the 8th day of November, 1858.

2503. And JOHN SAMUEL DAWES, of Smethwick House, near Birmingham, Gentleman, has given the like notice in respect of the invention of "A new or improved machine to be used for cultivating land, and which may be made applicable as a hoe, a skim, a turf or peat cutter, and a new or improved method of actuating the said machine and other machines used for like operations."

2504. And JOHN FARMERLY DICKSON, of No. 6, Russel Street, Litchurch, near Derby, in the county of Derby, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of railway chairs and other details connected with the permanent way of railways."

2507. And ANDREW HENDERSON, of Gloucester Place, Portman Square, in the county of Middlesex, Master Mariner, has given the like notice in respect of the invention of "Improvements in vessels, and in applying rudders thereto."

2515. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in electric telegraphing."—A communication.

2516. And ROWLAND MASON ORDISH, of Great George Street, Westminster, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in constructing the permanent ways of railways."

As set forth in their respective petitions, all recorded in the said office on the 9th day of November, 1858.

2520. And WILLIAM GARNETT TAYLOR, of Ashby de la Zouch, in the county of Leicester, has given the like notice in respect of the invention of "Improvements in removing the fur from skins, and preparing said skins for tanning."

2522. And EDWARD HUMPHREYS, of Deptford, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines and boilers."

2527. And CHARLES TIOT JUDKINS, of No. 32, York Road, Lambeth, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in gas regulators."

As set forth in their respective petitions, all recorded in the said office on the 10th day of November, 1858.

2529. And JAMES LEES, of Oldham, in the county of Lancaster, Tin Plate Worker, and WILLIAM LEES, of the same place, Engineer, have given the like notice in respect of the invention of "An improvement in the construction of oil cans."

2531. And FREDERICK HERBERT MABERLY, of Stowmarket, in the county of Suffolk, Master of Arts, has given the like notice in respect of the invention of "Improvements in the construction of ships of war and other vessels, their machinery and appurtenances."

2535. And JAMES RAE, of Alpha Road, New Cross, in the county of Kent, has given the like notice in respect of the invention of "Improvements in cisterns suitable for containing water for household uses."

As set forth in their respective petitions, all recorded in the said office on the 11th day of November, 1858.

2541. And DAN TURNER, of No. 90, High Street, Whitechapel, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of wood soles for clogs, boots, and shoes."

As set forth in his petition, recorded in the said office on the 12th day of November, 1858.

2543. And MARK NIELD MILLS and NATHAN SIDEBOTHAM, both of Ashton-under-Lyne, in the county of Lancaster, Machinists, have given the like notice in respect of the invention of "Certain improvements in looms for weaving."

2544. And JOHN BENYON, of Swinton, near the city of Manchester, Manager, and JOHN WARBURTON BRIDGE BOWDEN, of the same place, Manufacturer, have given the like notice in respect of the invention of "Certain improvements in looms for weaving."

As set forth in their respective petitions, both recorded in the said office on the 13th day of November, 1858.

2560. And THOMAS ROBERT BUTCHER, FREDERICK STEVENS, WILLIAM THOMAS JOHNSON, and THEOPHILUS JARVIS, of Frome, in the county of Somerset, Pianoforte Action Manufacturers, have given the like notice in respect of the invention of "Improvements in the hammer-rails of pianofortes."

2562. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, Saint Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in the process of finishing piled fabrics, and in apparatus employed in such process."—A communication.

As set forth in their respective petitions, both recorded in the said office on the 15th day of November, 1858.

2597. And WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "An improved bit or bridle for horses."—A communication from Léonard Varéille and Louis Henry Drevet.

As set forth in his petition, recorded in the said office on the 17th day of November, 1858.

2600. And ETIENNE BRICLLET, of No. 58, Torrington Square, county of Middlesex, has given the like notice in respect of the invention of "The obtaining of caloric by a new chemical and mechanical process."—A communication from Mr. Mundo, resident at Naples, in the kingdom of Sicily.

As set forth in his petition, recorded in the said office on the 18th day of November, 1858.

2738. And EDWARD JONES, of Dudley, in the county of Worcester, Manager of Ironworks, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of coke in ovens."

As set forth in his petition, recorded in the said office on the 1st day of December, 1858.

2964. And RICHARD HORNSBY, junior, of Spittlegate Iron Works, Grantham, in the county of Lincoln, has given the like notice in respect of the invention of "Improvements in ploughing and tilling land by steam power, and in apparatus employed therein."

As set forth in his petition, recorded in the said office on the 27th day of December, 1858.

59. And WILLIAM AUGUSTUS FREDERICK POWELL, of Bristol, in the county of Somersetshire, Potter, has given the like notice in respect of the inven-

tion of "Improvements in stopping or closing jars or bottles."
As set forth in his petition, recorded in the said office on the 19th day of January, 1859.

175. And THOMAS GREENWOOD and JOHN BATLEY, of Leeds, in the county of York, Machine Makers, have given the like notice in respect of the invention of "An improvement in the process of gassing textile fabrics."—A communication from H. Van den Berghe, residing at Rue de St. Georges, Courtrai, Belgium.
As set forth in their petition, recorded in the said office on the 20th day of January, 1859.

290. And GEORGE ARTHUR WALLER, of the city of Dublin, Brewer to Arthur Guinness, Son and Co., has given the like notice in respect of the invention of "Improvements in the means of, and apparatus for, expressing liquid from semi-fluid substances, and other substances containing liquid."

291. And MICHAEL LOAM, of Treskerby House, Truro, Cornwall, has given the like notice in respect of the invention of "Improvements in machinery for raising sewage and other waters and matters."
As set forth in their respective petitions, both recorded in the said office on the 1st day of February, 1859.

328. And JOHN HONEYMAN, of Glasgow, in the county of Lanark, North Britain, Miller, has given the like notice in respect of the invention of "Improvements in the construction of ships, vessels, and boats, and in propellers for propelling the same."

329. And ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in electric, magnetic, or electro-magnetic telegraph ropes or conductors, and in machinery or apparatus to be used on board ship, for laying or paying out the same."
As set forth in their respective petitions, both recorded in the said office on the 4th day of February, 1859.

368. And GEORGE BOWER, of St. Neots, in the county of Huntingdon, Gas Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for the manufacture of illuminating gas."
As set forth in his petition, recorded in the said office on the 9th day of February, 1859.

380. And BENJAMIN BURROWS, of Leicester, has given the like notice in respect of the invention of "Improvements in looms for weaving narrow fabrics."
As set forth in his petition, recorded in the said office on the 10th day of February, 1859.

391. And JAMES GRIMES, of No. 6, Osborne Street, Whitechapel, Pewterer and Beer Engine Manufacturer, has given the like notice in respect of the invention of "Improvements in beer engines."
As set forth in his petition, recorded in the said office on the 11th day of February, 1859.

405. And ROBERT BELL, of Paris, in the empire of France, and of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in separating and recovering wool from fabrics composed of wool, or wool in connection with cotton and other vegetable substances."
As set forth in his petition, recorded in the said office on the 12th day of February, 1859.

468. And GEORGE PAUL, of Glasgow, in the county of Lanark, North Britain, Mechanic, has given the like notice in respect of the invention of "Improvements in spindles and flyers."

469. And OBED BLAKE, of Blackwall, in the county of Middlesex, has given the like notice in respect of the invention of "Improved machinery or apparatus used in the manufacture of glass."

477. And RICHARD WILLIAM JOHNSON, of Oldbury, in the county of Worcester, Railway Carriage Builder, and WILLIAM STABLEFORD, of the same place, Manager, have given the like notice in respect of the invention of "Improvements in axle boxes."

478. And JOSEPH SCHLOSS, of Cannon Street, in the city of London, Manufacturer, has given the like notice in respect of the invention of "An improvement in locks or clasps for porte-monnaies, pocket books, bags, and other like purposes."—A communication from Vve. Henry Schloss and Frère, residing in Paris.
As set forth in their respective petitions, all recorded in the said office on the 21st day of February, 1859.

481. And JOSEPH GRIMOND, of the city of Manchester, in the county of Lancaster, Manufacturer, has given the like notice in respect of the invention of "Improvements in the treatment and preparation of jute and other fibrous materials, and in machinery or apparatus employed therein."

485. And EDWARD LUND, of Manchester, in the county of Lancaster, Gentleman, has given the like notice in respect of the invention of "Certain improvements in the manufacture of fabrics or textures to be used in the construction of umbrellas and parasols."
As set forth in their respective petitions, both recorded in the said office on the 22nd day of February, 1859.

503. And JOSEPH CROSLAND, of Crosland Moor, Huddersfield, in the county of York, Manufacturer, has given the like notice in respect of the invention of "Improvements in looms for weaving textile fabrics."
As set forth in his petition, recorded in the said office on the 24th day of February, 1859.

522. And WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Implement Makers, has given the like notice in respect of the invention of "An improvement in reaping and mowing machines."
As set forth in his petition, recorded in the said office on the 26th day of February, 1859.

527. And JOHN LEIGH, of the city of Manchester, in the county of Lancaster, Surgeon, has given the like notice in respect of the invention of "Improvements in the purification of coal gas."

530. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like

notice in respect of the invention of "Improvements in apparatus for taking soundings, applicable also to the throwing of life lines."—A communication from William P. Trowbridge, residing at Washington, Columbia, in the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 28th day of February, 1859.

538. And JAMES HOLROYD, of Leeds, in the county of York, Cloth Finisher, has given the like notice in respect of the invention of "An improvement in finishing woollen cloths and cloths made from a combination of wool and other materials."

As set forth in his petition, recorded in the said office on the 1st day of March, 1859.

569. And HORATIO LEONARD, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "An improvement in the manufacture of paraffine candles."

570. And WILLIAM TUCKER, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "An improvement in bit stocks or auger handles."

As set forth in their respective petitions, both recorded in the said office on the 3rd day of March, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

15*th March*, 1859.

2091. EDWARD SMYTH, of Brixton, in the county of Surrey, for an invention of "Improvements in swimming belts and life preservers."—Dated 15th September, 1858.

2093. WILLIAM GARNETT TAYLOR, of Ashby-de-la-Zouch, in the county of Leicester, Gentleman, for an invention of "Improvements in the manufacture of gloves."—Dated 15th September, 1858.

2099. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "Machinery or apparatus for dressing and finishing fabrics."—A communication from Pierre Labérie, residing at Mazamet (Tarn), in the empire of France.—Dated 17th September, 1858.

2102. CHARLES HADLEY, of Lower Hurst Street, Birmingham, for an invention of "Improvements in omnibusses, cabs, railway carriages, waggons, and other similar vehicles."—Dated 17th September, 1858.

2105. JOZÉ LUIS, Patent Agent, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "Improvements in the application of gutta percha for clogs, galoches, shoes, and boots, and for the apparatus connected therewith."—A communication from a Foreigner residing abroad. — Dated 18th September, 1858.

2115. EWALD RIEPE, of Sheffield, in the county of York, Engineer, for an invention of "An improvement in the casting of steel."—Dated 20th September, 1858.

2121. JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, for an invention of "Improvements in treating pyrites." — Dated 21st September, 1858.

2127. JOHN HOPE, of the state of Rhode Island, of the United States of America, for an invention of "An improved calico printing roller."—Dated 22nd September, 1858.

2139. THOMAS CALLENDER HINDE, of Dudley, in the county of Worcester, Iron Merchant, for an invention of "An improvement or improvements in the manufacture of iron and steel."—Dated 23rd September, 1858.

2147. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the city of London, for an invention of "An improved apparatus for preventing explosion in steam boilers."—A communication from a Foreigner residing abroad.—Dated 24th September, 1858.

2151. GEORGE LEONARD TURNEY, of Aldermanbury, in the city of London, Needle Manufacturer, for an invention of "An improved mode of packing pins for sale."—Dated 24th September, 1858.

2157. WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in purifying natural phosphates of lime."—A communication from Emile Constant Martin, residing at Paris, in the empire of France, formerly Banker. —Dated 25th September, 1858.

2241. WILLIAM AUGUSTUS MUNN, of Throwley House, near Feversham, in the county of Kent, (late a Major in the East Kent Regiment of Militia,) a Deputy Lieutenant and Justice of the Peace for the said county of Kent, for an invention of "Improvements in horse-hoes."—Dated 8th October, 1858.

2479. ROBERT EARDLEY PINHEY, of Woolstan, in the county of Hampshire, and JOHN WOOD, of 58, High Street, Southampton, in the town and county of Southampton, Hampshire, for an invention of "Improvements in apparatus for ascertaining the variation of ships compasses for local errors."—Dated 5th November, 1858.

2613. GEORGE HOWE, Engineer, and JOHN NORTON, Plumber, both of Sheffield, in the county of York, for an invention of "An improved method of boiling water or worts for brewerys, distillerys, &c. by steam, or for heating rooms, public buildings, churches, chapels, factories, &c."—Dated 19th November, 1858.

2791. GEORGE SNELL, of Leeds, in the county of York, Cloth Finisher, for an invention of "Improvements in machinery or apparatus for cutting woollen fabrics."—Dated 6th December, 1858.

53. EDWIN HEYWOOD, of Halifax, in the county of York, for an invention of "Improvements in weaving."—Dated 7th January, 1859.

93. JOHN THOMSON, of Dundee, in the county of Forfar, Manufacturer, for an invention of "Improvements in the manufacture of rugs."—Dated 12th January, 1859.

207. CHRISTIAN SHARPS, of Philadelphia, in the state of Pennsylvania, United States of America, Manufacturer of Fire-arms, for an invention of "Improvements in breech loading repeating fire-arms."—Dated 22nd January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 12th March, 1859, inclusive.*)

10th March.

592. John Fowler, junior, of Havering, near Romford, in the county of Essex, for an invention of "An improvement in the manufacture of bricks and tiles."—Dated 11th March, 1856.

598. Edmund Alfred Pontifex, of the firm of Pontifex and Wood, of Shoe Lane, in the city of London, Chemical Manufacturers, for an invention of "Improvements in the manufacture of tartaric and citric acids, and tartrate of potash and soda."—Dated 12th March, 1856.

612. Thomas Porter, of Manchester, in the county of Lancaster, Merchant, for an invention of "Improvements in looms for weaving carpets, coach lace, velvets, and other piled fabrics."—A communication.—Dated 13th March, 1856.

619. William Yates, of Bromley, in the county of Middlesex, Engineer, for an invention of "An improvement in furnaces."—Dated 14th March, 1856.

632. Joseph Pegg, of Monk Wearmouth, in the county of Durham, Ship Owner, for an invention of "Improved steering apparatus."—Dated 15th March, 1856.

11th March.

625. Edwin Thomas Wright, of Wolverhampton, in the county of Stafford, Engineer, for an invention of "An improvement or improvements in the manufacture of steam-engine boilers, iron ships and boats, and such other vessels and things as are or may be made by rivetting together metal plates."—Dated 15th March, 1856.

12th March.

618. Phillip Marcus, of Well Street, in the county of Middlesex, Outfitter, for an invention of "An apparatus for working the damper in steam-engine furnaces."—A communication from John Taylor, of New Jersey.—Dated 14th March, 1856.

622. Charles Coates, of Sunnyside, near Rawtenstall, in the county of Lancaster, Manager, for an invention of "Improvements in apparatus for communicating motion to machinery used in bleaching, printing, dyeing, and finishing fabrics."—Dated 15th March, 1856.

List of Specifications, &c. published during the week ending 11th March, 1859.

No.	Price.	Subject-Matter.
1766	10*d.*	Sewing machines.
1767	3*d.*	Rolling iron.
1768	1*s.* 5*d.*	Pneumatic and hydraulic machines.
1769	1*s.* 8*d.*	Machinery for cutting and screwing the ends of tubes.
1770	3*d.*	Propelling vessels.
1771	3*d.*	Apparatus for looping up dresses, &c.
1772	3*d*	Manufacture of metallic hoops, bands, &c.
1773	3*d.*	Electric telegraph cables and wires.
1774	9*d*	Feeding steam boilers with water.
1775	10*d.*	Looms for weaving.
1776	6*d.*	Truss.
1777	3*d.*	Machine for pulverizing shell, horn, and whalebone.
1778	4*d.*	Waterproof tube, &c.
1779	6*d.*	Machine for the manufacture of wheels.
1780	5*d.*	Penholder.
1781	9*d.*	Machinery for preparing and spinning flax, wool, &c.
1782	9*d.*	Machinery for weaving plain or figured fabrics.
1783	3*d.*	Manufacture of paper, &c.
1784	3*d.*	Shearing machines.
1785	8*d.*	Knitting frames.
1786	3*d.*	Manufacture of cast-steel and wrought-iron ingots, &c.
1787	3*d.*	Bridges and girders.
1788	6*d.*	Manufacture of lace.
1789	3*d.*	Ornamenting textile fabrics.
1790	3*d.*	Hats.
1791	1*s.* 2*d.*	Manufacture of gas, coke, &c.
1792	3*d.*	Railway signal.
1793	3*d.*	Treating sewage, &c.
1794	10*d.*	Permanent way, watercourse, &c.
1795	3*d.*	Washing machine.
1796	3*d.*	Paints for coating iron ships, &c.
1797	6*d.*	Manufacture of electric telegraph cables.
1798	3*d.*	Metallic alloy.
1799	6*d.*	Agricultural steam engines, &c.
1800	5*d.*	Twisting bobbin.
1801	1*s.* 3*d.*	Covering, doubling, and twisting machine.
1801	7*d.*	Printing presses.
1803	8*d.*	Manufacture of blocks for the construction of sewers and drains.
1804	7*d.*	Machinery for moulding or shaping metals.
1805	10*d.*	Apparatus for working railway breaks.
1806	3*d.*	Pianofortes.
1807	3*d.*	Pressure gauge.
1808	3*d.*	Floating batteries, lighthouses, &c.
1809	1*s.* 4*d.*	Operating railway breaks.
1810	10*d.*	Machinery for the manufacture of bricks and tiles.
1812	5*d.*	Manufacture of garden engines, &c.
1813	3*d.*	Fastenings for porte-monnaies, &c.
1814	7*d.*	Mariners' compass.
1815	7*d.*	Machinery for drawing and twisting wool, &c.
1816	3*d.*	Precipitation of purple colouring matter.
1817	3*d.*	Manure.
1818	3*d.*	Boots and shoes.
1819	3*d.*	Manufacture of saltpetre, &c.
1820	3*d.*	Composition for coating ships or vessels.
1822	10*d.*	Umbrella and parasol sticks.
1823	3*d.*	Manufacture of woollen bags.
1834	6*d.*	Saddles.
1862	3*d.*	Book slides.
1865	3*d.*	Folding bedsteads.
1885	7*d.*	Bradawl screw.
1895	3*d.*	Bearings and packings for shafts, &c.
1919	7*d.*	Fastenings for bags, portemonnaies, &c.
1928	1*s.* 4*d.*	Condensers for steam engines, &c.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Errata in Journal of 11th March.

290. For "Guiness" read "Guinness."
After 438, for "1466" read "466."
496. For "pestles" read "kettles."
499. For "machinery for spinning" read "machines for spinning."

A Free Library and Reading Room, in connection with the Office of the Commissioners of Patents, is open to the Public daily from 10 till 4 o'clock.

In addition to the Printed Specifications, Indexes, and other publications of the Commissioners, the Library includes a Collection of the leading British and Foreign Scientific Journals, and text-books in the various departments of science and art. A printed Catalogue of the Library is on sale.

Note.—The Commissioners' publications may be consulted daily in the Library of the British Museum; in the Library of the Society of Arts; and in the Free Libraries of the following Towns and Cities:—

Aberdeen (*Public Library Town House*).
Accrington (*Mechanics' Institution, Bank Street*).
Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
Bradford, Yorkshire (*Borough Accountant's Office, Corporation Buildings, Swain Street*).
Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
Leamington Priors (*Public Library, Town Hall*).
Leeds (*Town Clerk's Office, Town Hall*).
Leicester (*Corporation Library, Town Hall*).
Liverpool (*Free Public Library, Duke Street*).
Macclesfield (*Useful Knowledge Society*).
Manchester (*Chetham Hospital*).
———— (*Camp Field*).
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*).
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Society of Arts (*John Street, Adelphi*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices.

Admiralty, Steam Department.
———— Surveyor of Navy.
———— Deptford Dockyard.
———— Woolwich ditto.
———— Sheerness ditto.
———— Devonport ditto.
———— Portsmouth ditto.
———— Chatham ditto.
———— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Small Arms Factory, Enfield.
Ordnance, Pall Mall.
War Office, Pall Mall.
School of Mines, Jermyn Street, Piccadilly.
Dublin Castle, Dublin.
Rolls Office, Chancery (Four Courts), Dublin.
Office of Chancery, Edinburgh.
East India House, Leadenhall Street.

Seats of Learning.

Cambridge University.
Trinity College, Dublin.
Queen's College, Galway.
University College, London.

British Colonies.

Malta.
Cape of Good Hope.
Mauritius.
India:—
Bengal; Agra; Madras; Bombay.
Ceylon.
Victoria.
New South Wales.
South Australia.
Tasmania.
New Zealand.
Newfoundland.
Canada—Quebec; Toronto
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Day of Month.	Day of Week.	Morning.	Evening.	Total.
Mar. 7	Monday -	360	394	754—Fi. & Sho.
„ 8	Tuesday -	198	477	675—Fine.
„ 9	Wednesday	117	68	185— „
„ 10	Thursday*	127	—	127— „
„ 11	Friday -	80	—	80—Showery.
„ 12	Saturday -	262	—	262— „
	Total -	1144	939	2083

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Total number of visitors since the period of free daily admission (12th May, 1858) to 12th March, 1859, —76,095.

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THE

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No. 543. FRIDAY, MARCH 18, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2576. To WILLIAM BECKETT JOHNSON, Manager, and JOSEPH SHEPHERD, Foreman to Messrs. Richard Ormerod and Son, Engineers, of Manchester, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for adjusting the permanent way of railways."
On their petition, recorded in the Office of the Commissioners on the 16th day of November, 1858.

168. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for making cigarettes."—A communication from Jacques Louis Lemaire Daimé, residing at Paris, in the empire of France, Merchant.
On his petition, recorded in the Office of the Commissioners, on the 19th day of January, 1859.

222. To HENRY OWEN, of Portswood, Southampton, in the county of Hampshire, for the invention of "Improvements in stockings."
On his petition, recorded in the Office of the Commissioners on the 24th day of January, 1859.

378. To GEORGE LOUIS STOCKS, of Bridge Road, Poplar, in the county of Middlesex, Ship Chandler, for the invention of "Improvements in steering apparatuses."
On his petition, recorded in the Office of the Commissioners on the 10th day of February, 1859.

448. To CHARLES FAY, of Manchester, in the county of Lancaster, Railway Carriage Builder, for the invention of "Improvements in apparatus for working railway breaks."
On his petition, recorded in the Office of the Commissioners on the 17th day of February, 1859.

502. To JAMES HOLMS, of Glasgow, in the county of Lanark, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for propelling vessels, ships, and boats."
On his petition, recorded in the Office of the Commissioners on the 24th day of February, 1859.

512. To CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, for the invention of "Improvements in electric telegraphs and apparatus, and in supports for electric telegraphic line wires."—Partly a communication from Werner Siemens, residing at Berlin, in Prussia.
On his petition, recorded in the Office of the Commissioners on the 25th day of February, 1859.

548. To JOHAN VALDA, of London, in the county of Middlesex, for the invention of "Improvements in studs and other like fastenings for dresses, belts, or other purposes."

550. To ROBERT HANHAM COLLYER, of Alpha Road, in the county of Middlesex, Doctor of Medicine and Civil Engineer, for the invention of "A process of preparing materials for the manufacture of paper, and a machine employed therein, which machine is applicable for crushing, grinding, bruising, and reducing various substances."

552. To FREDERICK JOHN JONES, of Aldermanbury, in the city of London, Manufacturer, for the invention of "An improvement in buckles and clasps."

554. To ETIENNE ROCHE, of Marseille, town in the French empire, Manufacturer, for the invention of "Improvements in the manufacture of paper suitable for forming cigarettes and for

other purposes, and also improvements in the manufacture of cigars."

556. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the construction of barometers or instruments to indicate pressure." A communication from Mr. Alfred Nobel, of Paris, a Foreigner residing abroad.

558. To JOSEPH KERSHAW, of Allerton, near Bradford, in the county of York, Overlooker, for the invention of "Improvements in means or apparatus employed in weaving."

560. And to HENRY BROWN, of the firm of Henry Brown and Company, Woollen Manufacturers, of Galashiels, in the county of Selkirk, Scotland, for the invention of "Improvements in machinery for cutting and finishing the surfaces of woollen and other fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of March, 1859.

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562. To HERRMANN KOHN, of Berlin, in the Kingdom of Prussia, now residing at No. 5, North Place, Gray's-Inn-Road, in the county of Middlesex, Merchant Tailor, for the invention of "Improvements in articles of wearing apparel called coats."

563. To JOHN HARRISON, of Bermondsey, Southwark, in the county of Surrey, Builder, for the invention of "An improvement or improvements in the construction of rotating window sashes."

564. To THOMAS WILSON, of Birmingham, in the county of Warwick, Engineer, for the invention of "An improvement or improvemeuts in breech-loading fire arms."

565. To ALBERT W. HALE, of New Britain, state of Connecticut, United States of America, for the invention of "A new and improved machine for cutting or mincing meat, vegetables, &c."

566. To JAMES DALZIEL DOUGALL, of Glasgow, in the county of Lanark, North Britain, Gun Maker, for the invention of "Improvements in fire arms."

567. To WILLIAM JACKSON, of Colne, in the county of Lancaster, Shuttle-tongue Maker, for the invention of "Improvements in shuttles for looms."

568. To WILLIAM SCORE, of No. 9, Osborne Terrace, Clapham Road, in the county of Surrey, Chemist, for the invention of "Improvements in the manufacture of soap."

571. And to THOMAS COOK, of Stowmarket, in the county of Suffolk, Carpenter and Joiner, for the invention of "An apparatus for raising and lowering coffins and bodies, either for burial or disinterment."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of March, 1859.

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573. To CHARLES FREDERICK DENNET, of Pall Mall, Gentleman, for the invention of "Improvements in bayonets."

574. To MARK RIDER, of Todmorden, in the county of York, Mechanic, for the invention of "Improvements in, or applicable to, machines for preparing, spinning, and doubling cotton and other fibrous materials."

575. To JAMES COWBAN and ELIAS ANDREWS, of Burnley, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for spinning fibrous materials."

576. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "An improvement in boiler stays."—A communication from Jean Perrier, residing at Nimes, France.

577. And to CHARLES ROPER MEAD, of No. 176, Great Dover Street, in the borough of Southwark, Gas Engineer, for the invention of "Improvements in water gas-meters."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of March, 1859.

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578. To WILLIAM BAILES and JAMES BAILES, of No. 434, Oxford Street, in the parish of Westminster, in the county of Middlesex, for the invention of "An improved ship's berth for prevention of sea sickness, composed of wood and metal."

579. To JOHN MACMILLAN DUNLOP, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in machinery or apparatus for cleaning fibrous materials."

580. To JOHN LEIGH, of the city of Manchester, in the county of Lancaster, Surgeon, for the invention of "Improvements in the purification of coal gas."

581. To JOHN FRASER, of the town and county of Banff, North Britain, Manager of the Banff Iron Foundry, for the invention of "Improvements in ploughs."

582. To FREDERICK WILLIAM PARKER, of Sheffield, in the county of York, Saw Maker, for the invention of "Improvements in sewing machines."

583. To EDWARD VIGERS, of Paddington, Gentleman, for the invention of "Improvements in the construction of ships and other vessels."

584. To WILLIAM PEACOCK SAVAGE, of Roxham, Downham Market, in the county of Norfolk, for the invention of "An improved machine for excavating, raising, and depositing soil."

585. To FRANÇOIS VERDEIL, Medical Doctor, of No. 30, Rue St. Sulpice, in the city of Paris, and EDMOND MICHEL, Chemist, of No. 4, Quai Imperial, Puteaux, Seine, for the invention of "Improvements in treating madder."

586. To GEORGE LEACH, of Leeds, in the county of York, Yarn Spinner and Cloth Manufacturer, for the invention of "Improved machinery for reeling and leashing yarn or thread."

587. And to FRANCIS MORTON, of James Street, Liverpool, in the county of Lancaster, Engineer, for the invention of "An improvement in the construction of strained fences."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of March, 1859.

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589. To HUGH WILLIAM PATRICK, of No. 4, Mill Hill Terrace, Acton, in the county of Middlesex, for the invention of "An improvement or improvements in an apparatus for chemical and dental laboratories, or other manufacturing or experi-

mental uses, which he proposes calling a 'paragon laboratory forge.'"

590. To DUNCAN PROUDFOOT, of Glasgow, in the county of Lanark, North Britain, Merchant, for the invention of "Improvements in Turkey-red dyeing."

591. To ARMAND CABANY, of Anzin, department of the Nord, in the empire of France, Engineer, for the invention of "A new system of quoins (wedges) for railways."

592. To WILLIAM PALMER, of Long Eaton, in the county of Derby, Station Master, for the invention of "An improved railway carriage break, and coupling apparatus connected therewith."

593. To FREDERICK AYCKBOURN, of 27, Henry Street, Vauxhall Gardens, Gentleman, for the invention of "Laminating india-rubber cloths with paper sheets."

594. To WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the treatment of certain ores of copper for the extraction of metals therefrom."

595. To JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, for the invention of "Improvements in evaporating in vacuo."

596. To PIERRE ERNEST AIMONT, of Paris, in the French empire, Civil Engineer, for the invention of "Improvements in the construction of waggons and other carriages for railways and ordinary roads, and of apparatuses connected therewith."

597. To JOHN ORR, of No. 31, South Albion Street, Glasgow, in the employ of Messrs. Laird and Thomson, of Glasgow aforesaid, for the invention of "Improvements in weaving ornamental fabrics."

598. To JOHN PRETTY CLARKE, of King's Street Mills, Leicester, for the invention of "Improvements in the manufacture of reels for the winding on cotton, linen, thread, silk, or other fibrous materials."

599. And to JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, for the invention of "The manufacture of gelatine."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of March, 1859.

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601. To ADAM BOOTH the elder, and ADAM BOOTH the younger, of the city of Manchester, in the county of Lancaster, Machine Makers, for the invention of "Improvements in machinery or apparatus for making or manufacturing tags for laces."

603. To GEORGE TWIGG, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "An improved fusee-igniter for the use of smokers."

605. To JOHN NORTHCOTE RYDER, of Bexley Heath, in the county of Kent, for the invention of "Improvements in preserving fruits, and in apparatus used for such purposes."

607. And to WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in submarine telegraph cables."—A communication from abroad by Auguste Hubert Stanislas Treve, of Paris, Officer of the Imperial Navy.

On their several petitions, recorded in the Office of the Commissioners on the 8th day of March, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

628. NATHAN WASHBURN, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "A new and useful or improved machine for rolling tires for wheels," was deposited and recorded in the Office of the Commissioners on the 11th day of March, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

18*th March*, 1859.

2106. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "A new manner for applying centrifugal force in the manufacture of the fecula of potatoes of starch, of yeast, of porcelain paste, of paper pulp, and ultramarine, and the apparatus for carrying out the same."—A communication from a Foreigner residing abroad.—Dated 18th September, 1858.

2108. JOSEPH BLACKWOOD BEASLEY, of Cashel, county Tipperary, Ireland, for an invention of "Improvements in the construction of sporting and all other guns."—Dated 18th September, 1858.

2110. HENRY WILLIAM GRYLLS, of 47, Mark Lane, in the city of London, Licensed Custom House Agent, for an invention of "Improvements in apparatus employed in submerging or laying down electric telegraph cables."—Dated 18th September, 1858.

2114. HENRY FIRMIN, of Wapping, in the county of Middlesex, Carman, for an invention of "A machine for cleansing chaff and other food for horses and cattle."—Dated 20th September, 1858.

2119. LEON DE PARIENTE, of Paris (France), Gentleman, for an invention of "Improvements in apparatus to be applied to gas burners, with the object of increasing the lighting power of the gas flame."—A communication from a Foreigner now residing abroad.—Dated 21st September, 1858.

2124. ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road, for an invention of "Improvements in surface condensers."—Dated 21st September, 1858.

2130. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in

apparatus for printing shawls and other articles." —A communication from J. M. Firnstahl, of Vienna, a Foreigner residing abroad.—Dated 22nd September, 1858.

2146. Henry Henson Henson and William Frederick Henson, both of 38, Parliament Street, in the city of Westminster, for an invention of "Improvements in waterproofing leather, woven fabrics, fibrous and other materials, and also of rendering them fire-proof or partially fire-proof."— —Dated 24th September, 1858.

2150. George Leedham Fuller, of Lombard Street, in the city of London, Civil Engineer, for an invention of "Improvements in steam engines." —Dated 24th September, 1858.

2165. Edwin Thompson, of the city of York, Iron-founder, and William Lazenby, of the city of York, Grocer, Executors of Benjamin Jones, Iron-founder, of the city of York, for an invention of "Improvements in press wheel rollers or clod crushers, which improvements are also applicable to rollers for crushing, bruising, and pulverizing roots and other substances."—Dated 28th September, 1858.

2172. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "Improvements in apparatus for and in the manufacture of paper bags and other similar articles."—Dated 29th September, 1858.

2210. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in the means of or arrangements for working steam expansively."—A communication from Camille Polonceau, a foreigner residing abroad.—Dated 5th October, 1858.

2246. Evan Birchley, of Upper Severn Terrace, in the city of Worcester, Attorney's Clerk, for an invention of "An improved construction of cartridge."—Dated 8th October, 1858.

2277. Maurice Sautter, of Paris, Boulevart Montmartre, 14, for an invention of "Improvements in air engines."—A communication from Mr. Joseph Gill, resident at Marsala, Sicily.— Dated 12th October, 1858.

2298. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved construction of cabin or state room for steam boats and other vessels."—Dated 14th October, 1858.

2553. Manuel Leopold Jonas Lavater, of the Strand, in the county of Middlesex, India-rubber Manufacturer, for an invention of "Improvements in the manufacture of mats, coverings for floors and other surfaces, and other cellular articles when india-rubber compounds are used."—Dated 13th November, 1858.

2590. Matthew Caton, of Preston, in the county of Lancaster, Overlooker of Looms, for an invention of "Improvements in the treading motion of looms for weaving, and also in shuttle boxes and swells connected therewith."—Dated 17th November, 1858.

2674. Rudolph Bodmer, of 2, Thavies Inn, Holborn, London, for an invention of "Improvements in valves for regulating the supply of steam."— A communication from a Foreigner residing abroad. —Dated 25th November, 1858.

3746. George William Bales, of Ipswich, in the county of Suffolk, Gun Maker, for an invention of "Improvements in apparatus for retaining doors, sashes, or frames when shut or closed."— Dated 1st December, 1858.

2762. Thomas Bailey, of New Orleans, United States, and of 17, Russell Street, Birmingham, in the county of Warwick, Gun Manufacturer, for an invention of "A mechanical movement applicable to loading fire arms and other purposes."—Dated 3rd December, 1858.

26. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "Certain improvements in steam generators."—A communication from Frédéric Simian, residing at Marseilles.—Dated 3rd January, 1859.

28. Edmund Balchin, of Myton Gate, Hull, in the county of York, Gun Maker, for an invention of "An improved construction of projectile applicable to the whale fishery."—Dated 3rd January, 1859.

74. Thomas James Claxton, of the city of Montreal, Canada, Merchant, for an invention of "Improvements in the manufacture of boots and shoes." —A communication from abroad by Mellen Bray, of Montreal aforesaid, Boot and Shoe Maker.—Dated 10th January, 1859.

117. William Wilson, of Newcastle-on-Tyne, Hat Manufacturer, for an invention of "Improvements in machinery for felting bodies of hats and bonnets."—A communication from J. S. Taylor, of Danbury, Connecticut, United States of America. —Dated 13th January, 1859.

124. William Craft, of 12, Cambridge Road, Hammersmith, and Thomas Wilson, of Bradmore House, Chiswick, both in the county of Middlesex, for an invention of "Improvements in drawers and napkins, so as to render the same waterproof."—Dated 14th January, 1859.

170. James Croft Reid, of Liverpool, in the county of Lancaster, Master Mariner, and William Milner, of the same place, Manufacturer, for an invention of "Certain improvements in the construction of ships and vessels."—Dated 20th January, 1859.

188. John Hick and William Hargreaves, of Bolton-le-Moors, in the county of Lancaster, Engineers, trading under the firm of Benjn. Hick and Son, for an invention of "Improvements in the construction of steam boilers."—Dated 21st January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 16th March, 1859, inclusive.*)

14th March.

630. Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London, for an invention of "Improvements in the manufacture of iron and steel."—Dated 15th March, 1856.

657. Ely Smith Stott, of Halifax, Woollen Manufacturer, for an invention of "Improvements in the manufacture of mohair, alpaca, and worsted pile fabrics."—Dated 19th March, 1856.

15th March.

790. Frederic Grice, of West Bromwich, in the county of Stafford, Manufacturer, for an invention of "New or improved machinery for the manufacture of bolts, rivets, spikes, screw-blanks, and nuts."—Dated 2nd April, 1856.

16th March.

659. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved means for separating substances of different specific gravities."—A communication.—Dated 19th March, 1856.

711. William Ball, of Chicopee, in the county of Hampden, state of Massachusetts, United States of America, for an invention of "Improvements in machinery for stamping ores."—Dated 25th March, 1856.

736. William Ball, of Chicopee, in the county of Hampden, state of Massachusetts, United States of America, for an invention of "Improvements in machines for separating copper and other metals from their ores."—Dated 27th March, 1856.

Rules in respect of Communications from Abroad and Provisional Specifications.

By Sir FitzRoy Kelly, Her Majesty's Attorney General, and Sir Hugh McCalmont Cairns, Her Majesty's Solicitor General.

I. In any application for a Patent which is stated to be a Communication, the declaration must state the name and address of the party from whom it has been received, in the following manner:

No. 1. When declaration is made in the United Kingdom,—

"That it has been communicated to me from abroad by [here insert name and address in full]."

No. 2. In other cases,—

"That it is a communication from A.B., a person resident at [here insert address in full]."

II. All Provisional Specifications must be written on one side only of each sheet.

(Signed) FitzRoy Kelly, A.G.
H. M. Cairns, S.G.

Erratum in Journal of 15th March.

2522. For "Humphreys" read "Humphrys."

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 20th and 27th January, 10th, 17th, and 24th February, and 3rd March, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 540 of this Journal.)

1. Patents Delivered on the 20th January.

1. P. Koenig, represented by Alf. Chenot, of Brussels, for an imported invention of "A pneumatic catheter."—Dated 3rd August, 1858.—(French Patent, 9th June, 1858.)
2. H. Vanden Berghe, of Courtrai, for an imported invention of "A process for singeing fabrics."—Dated 16th October, 1858.—(G. Descat's French Patent, 5th October, 1858.)
3. A. Laurent and H. de Back, of Jemmapes, for "A system of wagons."—Dated 5th November, 1858.
4. A. P. Roger, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacturing and treating a tissue, called 'Parisian corium.'"—Dated 16th November, 1858.—(P. A. Brunard's French Patent, 13th December, 1858.)
5. A. R. André, of Charleroi, for "A machine for manufacturing bolts and rivets by the hot or cold process."—Dated 13th December, 1858.
6. L. Nagant, of Liège, for "Modifications in Lefaucheux' breech-loading gun."—Dated 23rd December, 1858.
7. H. Detallancourt and B. Blanjot, of Brussels, for an imported invention of "A system of crinoline petticoats, called 'duvetine.'"—Dated 28th December, 1858.—(French Patent, 19th September, 1857.)
8. J. Peters, represented by L. Deroy, of Saint Josse-ten-Noode, for an imported invention of "Manufacture of pipes of welded iron."—Dated 28th December, 1858.—(French Patent, 6th October, 1858.)
9. Maudslay, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the construction of furnaces for smelting iron, steel, and other metals."—Dated 28th December, 1858.—(English Patent, 25th June, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

10. L. F. Devisme, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of revolvers."—Dated 28th December, 1858.—(French Patent, 22nd December, 1858.)

11. F. Martin, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for splitting hides and leather."—Dated 28th December, 1858.—(French Patent, 8th April, 1858.)

12. P. Moir Crane, represented by A. Depuichault, of Schaerbeek, for an imported invention of "Improvements in the manufacture of fuel from peat."—Dated 28th December, 1858.—(English Patent, 26th June, 1858.)

13. C. Lesage and H. V. Bironneau, represented by Aug. Dathis, of Courtrai, for an imported invention of "A mode of applying Jacquart machines to the manufacture of certain embroideries."—Dated 29th December, 1858.—(French Patent, 16th October, 1858.)

14. J. Robb, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in propellers of vessels and ships."—Dated 29th December, 1858.—(French Patent, 20th December, 1858.)

15. F. Lombaer, of Molenbeek-Saint-Jean, a Patent of Improvement for "A kind of moveable book-binding."—Dated 29th December, 1858.—(Original Patent, 2nd December, 1858.)

16. Ed. Leach and L. Gauchez, of Brussels, for "Improvements in power looms."—Dated 29th December, 1858.

17. B. F. Brunel, of Brussels, for an imported invention of "A process for manufacturing Prussian blue."—Dated 30th December, 1858.—(English Patent, 26th September, 1856.)

18. J. J. Marçais, represented by H. Biebuyck, of Brussels, for an imported invention of "Arrangements in Bunsen's battery."—Dated 30th December, 1858.—(French Patent, 10th December, 1858.)

19. F. E. Schneider, represented by J. B. Lemaire, of Liège, for an imported invention of "A system of breech-loading guns and priming cartridges."—Dated 29th December, 1858.—(French Patent, 5th February, 1858.)

20. W. J. Ruelle and Co., of Liège, for "An apparatus for extracting coal, being also applicable to raising and lowering workmen."—Dated 30th December, 1858.

21. C. Fletcher, represented by Eug. Guillery, of Molenbeek-Saint-Jean, for "A means of condensing steam, and of driving back the heat and condensing water to boilers."—Dated 31st December, 1858.

22. C. E. Detmold, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in assembling and fixing the ends of rails of railways."—Dated 31st December, 1858.

23. P. F. Varenne, represented by H. Biebuyck, of Brussels, for an imported invention of "A tube for filtering the smoke of tobacco, applicable to all kinds of pipes."—Dated 31st December, 1858.

24. A. F. E. Robert, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of hollow india-rubber sounding toys."—Dated 31st December, 1858.—(French Patent, 24th December, 1858.)

25. J. M. Dunlop, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to his mode of making rollers or cylinders for finishing tissues and textile substances."—Dated 4th October, 1858.

26. Ducimetière-Monod, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A direct mode of manufacturing chlorine."—Dated 31st December, 1858.—(Original Patent, 15th September, 1856.)

27. J. H. Young, represented by G. Jollié, of Antwerp, for an imported invention of "A machine for composing type."—Dated 3rd January, 1859.—(English Patent, 14th January, 1858.)

28. H. J. Masse, of Leuze, for "A process for filtering the juice and scum of beetroot."—Dated 3rd January, 1859.

29. F. R. Wappers-Melis, of Ixelles, for "A composition for rendering soles of foot-coverings durable and impervious."—Dated 3rd January, 1859.

30. T. R. L. A. Sudre, represented by J. Piddington, of Brussels, for an imported invention of "A system of manufacturing steel by means of reaction, and smelting natural or refined steel."—Dated 3rd January, 1859.—(French Patent, 25th October, 1858.)

31. C. Tillière, of Brussels, for "A rotary steam-engine."—Dated 3rd January, 1859.

32. L. B. Duboc, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for winding up, twisting, and doubling filamentous substances."—Dated 3rd January, 1859.—(French Patent, 30th December, 1858.)

33. H. W. Wimshurst and F. Trueman, represented by Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of metal sheets."—Dated 3rd January, 1859.—(French Patent, 30th December, 1858.)

34. W. Humiston, represented by Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of moulded candles."—Dated 3rd January, 1859.—(American Patent, 24th July, 1855.)

35. Th. Dhérnel, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in purlin tiles."—Dated 3rd January, 1859.—(French Patent, 5th November, 1856.)

36. J. Buchanan, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in propelling ships and vessels."—Dated 3rd January, 1859.—(French Patent, 22nd December, 1858.)

37. Ch. Rishworth, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of springs for carrying weights and moderating concussions."—Dated 3rd January, 1859.—(French Patent, 29th December, 1858.)

38. P. Vasseur, of Wetteren, for "A system of winding up and off warps and fabrics in looms."—Dated 4th January, 1859.

39. Ch. Wheatstone, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in electro-magnetic telegraphs and apparatus

for the transmission of signals."—Dated 3rd January, 1859.—(English Patent, 2nd June, 1858.)

40. Lemille, of Liège, for "A rocking system and safety-fastening of breech-loading fire-arms."—Dated 31st December, 1858.

41. L. Nagant, of Liège, for "Metallic cartridges for Lefaucheux' guns and revolvers."—Dated 4th January, 1859.

42. J. D. Weston, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in rolling iron for manufacturing bolts and pins." — Dated 5th January, 1859. — (English Patent, 7th July, 1858.)

43. A. F. Ouarnier, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in the manufacture of cartridges for breech-loading fire-arms."—Dated 5th January, 1859.—(French Patent, 27th November, 1858.)

44. A. L. Lévêque, represented by X. Raclot, of Brussels, for an imported invention of "A system of goggles for subduing fiery horses."—Dated 5th January, 1859.—(French Patent, 29th December, 1858.)

45. J. G. J. Fetu, of Brussels, for "A kind of pipe for fire-engines."—Dated 6th January, 1859.

46. J. H. Brown, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in the manufacture of cartridges."—Dated 6th January, 1859.—(English Patent, 5th October, 1858.)

47. J. F. Martin, of Trembleur, for "Improvements in revolvers."—Dated 4th January, 1859.

48. Th. Guibal, of Mons, for "An apparatus for breaking rocks in mines."—Dated 7th January, 1859.

49. P. P. Ercolin, represented by A. Hennelli, of Brussels, for "An apparatus called 'horometer.'" —Dated 7th January, 1859.

50. B. Richard, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A system of massive floors with circular joints."— Dated 7th January, 1859.—(French Patent, 23rd April, 1856.

51. R. Dawson, represented by F. T. Boutillier, of Schaerbeek, for "A mercury-clock."—Dated 7th January, 1859.

52. H. F. Toussaint and L. N. Langlois, represented by O. Daillencourt, of Brussels, for an imported invention of "Apparatus for separating gold and silver ores and other metals."—Dated 7th January, 1859.—(French Patent, 24th June, 1858.)

53. Ch. Perrée, represented by X. Raclot, of Brussels, for an imported invention of "A motor worked by consumed air."—Dated 7th January, 1859.—(French Patent, 6th March, 1858.)

54. J. Laubereau, represented by J. Duvivier, of Brussels, for "A motor with a single or double action."—Dated 7th January, 1859.

55. L. J. Vandecasteele, of Ghent, a Patent of Improvement for "Modifications in his collars for horses."—Dated 8th January, 1859.—(Original Patent, 19th January, 1857.)

56. F. J. Manceaux, represented by A. Anoul, of Ixelles, for "A system of bayonets and sabre-swords."—Dated 8th January, 1859.

57. J. Wilson, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in floating docks."—Dated 8th January, 1859.

58. J. Mouveau, of Molenbeek-St.-Jean, for "Manufacture of fat acids."—Dated 10th January, 1859.

59. P. A. Viette, of St. Josse-ten-Noode, for "Processes for engraving stones, glass, and metals in relievo or hollow style."—Dated 10th January, 1859.

60. Ch. M. de Clippèle d'Ilem, of St. Josse-ten-Noode, for "Manufacture of seamless straps and pipes."—Dated 11th January, 1859.

61. H. and A. Gosselin Brothers, of Brussels, for "Manufactured of tarred paper for packing objects which must be protected from dampness."—Dated 11th January, 1859.

62. J. Jagger, represented by A. Crooy, of Brussels, for an imported invention of "A machine for making bread and for giving the required shape to fermented and other paste."—Dated 11th January, 1859.—(French Patent, 4th January, 1859.)

63. R. G. C. Fane, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the treatment of sewage and in apparatus employed thereat."—Dated 11th January, 1859.—(French Patent, 4th January, 1858.)

64. P. G. Barry, represented by H. Biebuyck, of Brussels, for an imported invention of "Preparing thick mineral oils for lighting purposes."—Dated 11th January, 1859.—(French Patent, 7th January, 1859.)

65. F. G. Dauphin, represented by H. Biebuyck, of Brussels, for an imported invention of "A mechanical table for the manufacture of composite and tallow candles."—Dated 11th January, 1859.—(French Patent, 8th January, 1859.)

66. Mrs. Jolibois, represented by H. Biebuyck, of Brussels, for an imported invention of "A cooling apparatus for breweries."—Dated 11th January, 1859.—(French Patent, 21st August, 1858.)

67. J. B. Gendebien, of Brussels, for "A system of contact pulleys with elastic flanges applicable to wheels of locomotives."—Dated 11th January, 1859.

68. M. A. Decerfz, represented by A. Fleury, of Brussels, for "A ship's lantern for the navy and merchantmen."—Dated 12th January, 1859.

69. G. Cassart, of Seraing, for "An apparatus for boring mines."—Dated 10th January, 1859.

70. J. Briscot, of Dampremy, for "A vertical mode of tubbing shafts of mines or wells."—Dated 13th January, 1859.

71. Ed. Myers, represented by H. Biebuyck, of Brussels, for "A counting apparatus for measuring water, beer, and all kinds of liquids and gases."——Dated 13th January, 1859.

72. N. F. Landtsheer, of St. Gilles-lez-Bruxelles, a Patent of Improvement for "Additions to the mode of applying Woolf's system to horizontal and vertical steam engines."—Dated 13th January, 1859.—(Original Patent, 27th November, 1857.)

73. C. Guffroy, represented by X. Raclot, of Brussels, a Patent of Improvement for "Additions to his system of smoke-consuming fire-places."—Dated 13th January, 1859.—(Original Patent, 27th May, 1858.)

74. E. Libotte and G. Planche, of Gilly, for "A system of parachutes with a single and double action."—Dated 15th January, 1859.

75. J. B. de Moreau, of Chimay, for "Manufacture of artificial whetstones."—Dated 13th January, 1859.

76. P. Ricard-Pareukers, of Brussels, for "Manufacture of caps of shells for fire-works."—Dated 14th January, 1859.

77. Ch. Shaw, represented by D. Devos-Verraert, of Brussels, for an imported invention of "A kind of mantlets or shields which are proof against balls and bullets."—Dated 14th January, 1859.—(English Patent, 9th December, 1858.)

78. G. Bouche, represented by A. Crooy, of Brussels, for "A system for stopping carriage horses."—14th January, 1859.

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2. Patents Delivered on the 27th January.

1. L. M. M. Portalier, of Brussels, a Patent of Improvement for "Additions to his slide guns."—Dated 14th January, 1859.—(Original Patent, 23rd January, 1858.)

2. L. Asser, of Lacken, for "A process for condensing the vapours of chlorhydric acid in the manufacture of sulphate of soda."—Dated 17th January, 1859.

3. Tremonroux Brothers, and De Burlet, of St. Gilles-lez-Bruxelles, for "A machine for splitting the prongs of forks."—Dated 17th January, 1859.

4. A. E. Servier, represented by A. J. Godtschalck-Duval, of Brussels, a Patent of Improvement for "An electro-magnetic indicator."— Dated 17th January, 1859.—(Original Patent, 6th December, 1858.)

5. Th. Spiller, represented by L. N. de Meckenheim, of Ixelles, a Patent of Improvement for "Modifications in his stereoscopic apparatus."—Dated 17th January, 1859.—(Original Patent, 24th July, 1858.)

6. B. Nicoll, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in circular cutters and saws."—Dated 17th January, 1859. — (English Patent, 30th June, 1858.)

7. Ch. W. Williams, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in the arrangement of flues of furnaces and fire-places of steam boilers."—Dated 17th January, 1859. — (English Patent, 15th July, 1858.)

8. Eng. Dollfus, of Schaerbeek, for "A rotary press with a continuous action for separating liquids from pulp."—Dated 17th January, 1859.

9. L. Chabert, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A coating for protecting objects from snails and slugs, and for destroying the same."—Dated 17th January, 1859.—(French Patent, 13th April, 1858.)

10. L. J. Château, represented by O. Daillencourt, of Brussels, for an imported invention of "A cart for breaking the subsoil."—Dated 17th January, 1859.—(French Patent, 13th November, 1858.)

11. V. Brichet, represented by Mrs. Dumoulin-Colombier, of Liege, a Patent of Improvement for "Additions to his mode of fastening and unmounting breech-loading guns."—Dated 17th January, 1859.—(Original Patent, 25th February, 1857.)

12. Eng. Landois, of Liege, for "A mode of metallurgical treatment of oxides and sulphurets."—Dated 15th January, 1859.

13. F. J. Dontrewe and P. Goeseels, of Liege, for "A breech-loading gun with needle balls and cartridges, applicable to all arms."—Dated 14th January, 1859.

14. The Anzin Mining Co., represented by A. Cabany, of Mons, for "Coke kilns."—Dated 18th January, 1859.

15. V. Weerts-Sacré, of Verviers, for "A system of syphons."—Dated 21st January, 1859.

16. Ch. Callebaut, represented by L. C. Duru, of Brussels, for an imported invention of "Apparatus for bending, dressing, or regulating various articles before or after sewing."—Dated 18th January, 1859.—(French Patent, 22nd December, 1858.)

17. E. Tonnelier, represented by X. Raclot, of Brussels, for "A system of pianos."—Dated 17th January, 1859.

18. F. J. de Lannoy, of Schaerbeek, a Patent of Improvement for "Modifications in his apparatus for mincing meat."—Dated 19th January, 1859.—(Parod's Original Patent, 23rd June, 1858.)

19. F. J. de Lannoy, and L. J. C. Ladrange, of Schaerbeek, for "An apparatus for cutting meat."—Dated 12th January, 1859.

20. W. A. Shrooter, represented by R. Anoul, of Ixelles, for "A steam apparatus for distilling purpurposes."—Dated 19th January, 1859.

21. M. Schaffner, represented by A. Anoul, of Ixelles, for an imported invention of "A system of furnaces for the manufacture of zinc."—Dated 19th January, 1859.—(English Patent, 11th December, 1858.)

22. J. Rynsbergen, of Saint Léonard (Antwerp), for "A steam engine for beating milk."—Dated 21st January, 1859.

23. P. Fromont, of Châtelineau, for "A machine for obtaining pipes without soldering,"—Dated 21st January, 1859.

24. A. Mauroy, represented by D. Herode, of Schaerbeek, a Patent of Improvement for "Additions to his mode of manufacturing tiles, flagstones, and drain-pipes."—Dated 20th January, 1859.—(Original Patent, 8th January, 1858.)

25. P. C. A. Vaillant, A. Marsillon, and E. A. Lemaire, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in means and apparatus for preserving ice, fish, and other substances."—Dated 20th January, 1859.—(French Patent, 13th January, 1859.)

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3. Patents Delivered on the 10th February.

1. Ph. Fromont, of Châtelineau, for "A machine for lowering and raising workmen in mines."—Dated 6th January, 1859.

2. B. Laut, represented by X. Raclot, of Brussels, for "Improvements in the manufacture of iron and steel."—Dated 19th January, 1859.

3. J. L. Lemaire, represented by H. Biebuyck, of Brussels, for an imported invention of "A mould for making cigarets."—Dated 20th January, 1859. (Original Patent, 9th July, 1857.)

4. J. L. Lemaire, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in atmospheric fulminating toys."—Dated 20th January, 1859.—(French Patent, 27th January, 1858.)

5. A. F. Patry, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of lace."—Dated 20th January, 1859.—(French Patent, 10th January, 1859.)

6. L. Arnier, represented by H. Biebuyck, of Brussels for an imported invention of "A system of applying the best known means combined together to obtaining steam." — Dated 20th January, 1859. — (French Patent, 4th April, 1857.)

7. J. M. Legris, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in apparatus for lighting by gas."—Dated 20th January, 1859.—(French Patent, 18th December, 1858.)

8. G. Sommeilles, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for boring holes in rocks."—Dated 20th January, 1859.

9. F. Quintart, of Wasmes-Audemez-Briffoent, for "A churn."—Dated 24th January, 1859.

10. V. Soyer, of Tournai, for "An economical system of furnaces and heating applicable to steam boilers."—Dated 24th January, 1859.

11. H. Leroy, of Liege, for "An apparatus for ascertaining the place of bridges and sights of fire-arms."—Dated 20th January, 1859.

12. J. Herman, of Souverain-Wandre, a Patent of Improvement for "A modification in his breech-loading fire-arms."—Dated 21st January, 1859.—(Original Patent, 10th November, 1858.

13. F. and Ch. Vanneste, of Ingelmunster, for "An apparatus for cutting the root of chicory."—Dated 18th January, 1859.

14. P. Van Missiel, of Liege, for "A breech-loading gun."—Dated 24th January, 1859.

15. F. L. Hardy, of Herstal, for "Modifications in Lefaucheux' fire-arms." — Dated 22nd January, 1859.

16. Aug. Avermaete, of Ghent, for "A system of hot-air stoves."—Dated 22nd January, 1859.

17. E. J. Asser, represented by Ed. Mussche, of Brussels, for "A system of obtaining positive photographs by means of autographic or printing ink."—Dated 21st January, 1859.

18. P. A. de Saint Simon-Sicard, represented by H. Biebuyck, of Brussels, for an imported invention of "A chemical mechanical process for converting pig iron into steel."—Dated 21st January, 1859.—(French Patent, 2nd January, 1859.)

19. L. F. Devisme, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A kind of revolver."—Dated 21st January, 1859.—(Original Patent, 28th December, 1858.)

20. A. Lindo, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of soap."—Dated 21st January, 1859.—(French Patent, 18th January, 1859.)

21. G. A. Besson, represented by X. Raclot, of Brussels, a Patent of Improvement for "Modifications in musical instruments of brass, wood, and with percussion."—Dated 27th June, 1855.

22. X. Frison, represented by F. Faure-Bernard, of Brussels, for an imported invention of "A truss." —Dated 22nd January, 1859.—(French Patent, 12th October, 1858.)

23. Knauth, Nachod, and Kühne, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in fire-arms."— Dated 22nd January, 1859.—(Th. Knauth's English Patent, 3rd November, 1858.)

24. Knauth, Nachod, and Kühne, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in fire-arms."— Dated 22nd January, 1859.— (Th. Knauth's English Patent, 3rd November, 1858.)

25. B. Valerius, of Brussels, for "Manufacture of manure."—Dated 24th January, 1859.

26. J. Risdale, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in fountain penholders."—Dated 24th January, 1859.—(English Patent, 6th October, 1858.)

27. L. Pascal and G. Sirben, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of sea biscuit."—Dated 24th January, 1859.—(French Patent, 10th December, 1857.)

28. C. Beure and Ed. Barret, represented by H. Biebuyck, of Brussels, for an "Imported invention of a sowing machine."— Dated 24th January, 1859.—(French Patent, 11th May, 1858.)

29. M. Colson, represented by H. Biebuyck, of Brussels, for "Arrangements in steam-engines, applicable chiefly to working coal pits."—Dated 24th January, 1859.

30. B. Nadault de Buffon, represented by A. Van Langenhove, of Brussels, a Patent of Improvement for "Modifications in his system of tubular filters."—Dated 24th January, 1859.—(Original Patent, 2nd June, 1856.)

31. W. Langshaw, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines or apparatus for weaving looped or knitted articles."—Dated 25th January, 1859.—(English Patent, 10th June, 1858.)

32. Ch. Petit, of Molenbeek-St.-Jean, for "A screw cramp-iron for fixing porcelain plates for indicating the names of streets."— Dated 25th January, 1859.

33. A. Blaise, represented by O. Daillencourt, of Brussels, for an imported invention of "A new furnace for reviving animal charcoal."—Dated 26th January, 1859.—(French Patent, 12th June, 1858.)

34. E. Hanin, represented by A. Anoul, of Ixelles, for "Improvements in the manufacture of frying pans."—Dated 26th January, 1859.

35. A. Lavallée, represented by L. N. Meckenheim, of Ixelles, for "Improvements in electrical batteries."—Dated 27th January, 1859.

36. A. Gouweloos, of Brussels, for "A new system of bookbinding."—Dated 28th January, 1859.

37. A. Ostrog, represented by L. C. Duru, of Brussels, for an imported invention of "Improvements in the construction of portable organs."—Dated 28th January, 1859.—(French Patent, 24th January, 1859.)

38. J. M. Rowan, represented by X. Raclot, of Brussels, for "Improvements in steam engines and boilers."—Dated 28th January, 1859.

39. G. Vanderhecht, of St. Gilles les Bruxelles, for "A process for obtaining relief or sunk designs."—Dated 28th January, 1859.

40. L. de Mulver, of Baeveghem, for "A thrashing machine."—Dated 29th January, 1859.

41. G. F. A. H. Urbach-Sarolea, of Liege, for "An apparatus and method for purifying amylaceous substances in the manufacture of starch."—Dated 27th January, 1859.

42. J. Martin, of Silleus, for "A machine for making balls of coal dust for household purposes.'—Dated 28th January, 1859.

43. V. Delhausse, of Liége, for "A process for cleaning and whitening engravings."—Dated 27th January, 1859.

44. E. Boet, of Jemmapes, for "A system of ventilating steam-engines of steam-boats."—Dated 27th January, 1859.

45. Aug. Gonthyn, of Ghent, for "An apparatus called 'Nema-dynamometer, for measuring the strength of thread."—Dated 27th January, 1859.

46. F. P. J. Vanden-Ouwelant, represented by H. C. E. Vanden-Ouwelant, of Lacken, for an imported invention of "A system of smoke-consuming apparatus."—Dated 29th January, 1859.—(French Patent, 15th November, 1858.)

47. A. F. Châtel, represented by H. C. E. Ouwelant, of Lacken, for an imported invention of "Stoppers closing hermetically and obturators."—Dated 29th January, 1859.—(French Patent, 3rd January, 1856.)

48. L. Dalemagne, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in the mode of applying silicate of potash."—Dated 29th January, 1859.—(French Patent, 18th September, 1856.)

49. J. F. Léon, represented by X. Raclot, of Brussels, for "A machine for teaching children reading and arithmetic."—Dated 29th January, 1859.

50. J. F. Moreaux, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in cocks for water, steam, and other fluids."—Dated 29th January, 1859.—(French Patent, 26th December, 1856.)

51. J. J. A. de Bronac and A. J. M. Deherrypont, represented by O. Daillencourt, of Brussels, for an imported invention of "A process for treating metallic sulphurets, phosphurets, antimoniurets, and especially lead ores."—Dated 29th January, 1859.—(French Patent, 26th January, 1859.)

52. Count J. M. Regis, for the Turin Joint-Stock Electro-Weaving Company, represented by O. Daillencourt, of Brussels, for an imported invention of "A system of electrical apparatus applicable to Jacquard machines for weaving figured fabrics (Bonelli's system)."—Dated 29th January, 1859.—(French Patent, 26th January, 1859.)

53. E. A. Bendon, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in moulding gas retorts of refractory clay from the outside."—Dated 29th January, 1859.—(French Patent, 22nd August, 1857.)

54. A. L. H. Fiéfut de Sanville, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of continuous blast."—Dated 29th January, 1859.—(French Patent, 24th November, 1858.)

55. Th. Bailey, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in fire-arms."—Dated 29th January, 1859.—(French Patent, 22nd January, 1859.)

56. L. F. Devismes, represented by H. Biebuyck, of Brussels, a Patent of Improvement for his "Revolver."—Dated 29th January, 1859.—(Original Patent, 28th December, 1858.)

57. J. Gombeaux and T. Royer, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A barley mill with a cleaning apparatus and steel cylinders."—Dated 29th January, 1859.—(Original Patent, 20th July, 1858.)

58. F. Dehaynen, represented by H. Biebuyck, of Brussels, for "Improvements in machines for pressing and conglomerating coal dust."—Dated 29th January, 1859.

59. F. Ruff, represented by H. Biebuyck, of Brussels, for an imported invention of "A pump with a continuous jet."—Dated 29th January, 1859.—(French Patent, 20th October, 1857.)

4. Patents Delivered on the 17th February.

1. A. Senecal, represented by J. A. F. Jonghmans, of Antwerp, for an imported invention of "A system of shirts, called 'justaucorps.'"—Dated 1st February, 1859.—(French Patent, 8th February, 1856.)

2. Ch. Dupret, of Marcinelle, for "Utilizing the waste heat of scoria running from blast furnaces."—Dated 1st February, 1859.

3. H. Puissant, of Couillet, for "A furnace for heating forge iron of a great bulk."—Dated 1st February, 1859.

4. J. Bernardi and E. Grandoni, represented by J. Moscardini, of Brussels, for "A system of throwing silk and other filamentous substances."—Dated 31st January, 1859.

5. J. Epron, of St. Josse-ten-Noode, for an imported invention of "A system of making bread."—Dated 31st January, 1859.—(French Patent, 25th March, 1856.)

6. J. Caumont, represented by A. Picard, of Brussels, for an imported invention of "An electrical repelling apparatus applicable to locks and doors." —Dated 31st January, 1859.—(French Patent, 11th January, 1859.)

7. G. A. Tremeschini, represented by A. Picard of Brussels, a Patent of Improvement for "Substituting thin bands of pasteboard for cards in jacquard looms."—Dated 31st January, 1859.—(Original Patent, 11th January, 1858.)

8. A. Werotte, of Ixelles, for "A machine with a continuous motion for moulding and shaping bricks, flagstones and similar products."—Dated 1st February, 1859.

9. A. F. Vanhulst, of Brussels, for "A mechanical malt kiln."—Dated 1st February, 1859.

10. Montefior Levi, of Val Benoit, for "An apparatus for preparing ores."—Dated 31st January, 1859.

11. A. Carton-Eekman, represented by X. Raclot, of Brussels, for "A preparation for preventing incrustations of steam boilers."—Dated 1st February, 1859.

12. J. Norton, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in projectiles."—Dated 1st February, 1859.—(English Patent, 11th September, 1858.)

13. P. and N. Nicaise, of Marcinelle, for "Manufacture of bolts, screw nuts, cramp irons, rivets and pins."—Dated 2nd February, 1859.

14. H. Rousseaux, of Cureghem-sous-Anderlecht, for "Improvements in the manufacture of brown and other beer, by using steam."—Dated 2nd February, 1859.

15. G. S. Parkinson, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "An apparatus for working railway breaks and for establishing a communication between engine drivers and guards of railways."—Dated 2nd February, 1859.—(English Patent, 29th July, 1858.)

16. G. Hooricke, of Brussels, for "Improvements in puzzle-locks."—Dated 3rd February, 1859.

17. J. Stamm, represented by A. Picard, of Brussels, for an imported invention of "An apparatus for dividing the flame in gas-burners."—Dated 3rd February, 1859.—(French Patent, 21st January, 1857.)

18. E. Ameye, of Schaerbeek, for "An electrical battery, called 'Ameye's battery.'"—Dated 4th February, 1859.

19. J. Hubens, of Liege, for "A kitchen lamp with a constant level."—Dated 4th February, 1859.

20. F. Colantier, of Charleroi, for "A substance for repairing splits, holes, &c. of retorts or furnaces of iron or clay."—Dated 5th February, 1859.

21. L. A. Rossard, J. Joumard, and P. V. T. Doneux, represented by A. Hennelle, of Brussels, for an imported invention of "Utilizing the metallic particles contained in the waste of whet-stones in grinding tools."—Dated 5th February, 1859.—(French Patent, 28th June, 1858.)

22. C. J. T. Venant and H. Petit, represented by A. Hennelle, of Brussels, for an imported invention of "An apparatus called anti-smoke ventilator."—Dated 3rd February, 1859.—(French Patent, 15th November, 1858.)

23. N. E. Hans, represented by E. de Molinari, of Brussels, for "An apparatus for carding and cleaning wool and cotton."—Dated 5th February, 1859.

24. J. M. Renard, of Hodimont, for "A machine for washing linen cloth."—Dated 7th February, 1859.

25. J. Morel, of Tubise, for "A steam engine with a continuous circular movement."—Dated 7th February, 1859.

26. C. Sharps, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in fire-arms."—Dated 7th February, 1859.—(French Patent, 29th January, 1859.)

27. L. Levey-Heyman, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of shirts."—Dated 7th February, 1859.—(French Patent, 8th October, 1858.)

28. A. Légé and F. B. Pironnet, represented by H. Biebuyck, of Brussels, for an imported invention of "A process for preparing timber."—Dated 7th February, 1859.—(French Patent, 10th September, 1857.)

29. Penzolds, Mrs. L. Lemonnier, and Mrs. Rèvière, represented by X. Raclot, of Brussels, for "A machine without pistons or clack valves for raising water."—Dated 7th February, 1859.

30. F. J. Foucon, represented by O. Daillencourt, of Brussels, for an imported invention of "A smoke-consuming fire-place."—Dated 7th February, 1859.—(French Patent, 20th March, 1858.)

31. H. Verstraeten, of Brussels, for "A machine for the manufacture of economical coal-cakes."—Dated 8th February, 1859.

32. J. Montigny, for "A system of breech-loading guns."—Dated 9th February, 1859.

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5. Patents Delivered on the 24th February.

1. C. P. Destobbelaere, of Brussels, for "A mechanism for locomotives and fixed steam-engines."—Dated 17th January, 1859.

2. J. Dalpiaz and Eug. Devers, represented by J. Olléac, of Brussels, for an imported invention of "Various modes of applying glycerine."—Dated 25th January, 1859.—(French Patent, 31st July, 1858.)

3. Montague Moses, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in rods and handles of umbrellas."—Dated 1st February, 1859.—(English Patent, 10th August, 1858.)

4. L. Dubois, of Brussels, for "A combined bed and arm chair."—Dated 7th February, 1859.

5. A. Henry, Plagnard, Lemonon, and Rozerat, represeneed by X. Raclot, of Brussels, for "A motor with a continuous movement."—Dated 10th February, 1859.

6. F. J. Cavenaile, of Brussels, for "A cock with a clack valve and high pressure."—Dated 10th February, 1859.

7. G. F. A. H. URBACH-SAROLEA, of Liége, for "A method of whitening amylaceous substances in the manufacture of starch."—Dated 12th February, 1859.

8. N. J. COLLEYE, of Liége, a Patent of Improvement for "Additions to his system of guns."—Dated 12th February, 1859.—(Original Patent, 10th August, 1858.)

9. C. L. DESBORDES, of Charleroi, for "A manometer with free air."—Dated 12th February, 1859.

10. V. MULLENDORF and Co., of Ixelles, for "A household utensil, called 'Belgian washing machine."—Dated 14th February, 1859.

11. O. GUERIKE, of St. Josse-ten-Noode, for "A kiln for burning animal charcoal with columns of continuous fire, and an air reservoir."—Dated 15th February, 1859.

12. W. S. CLARK, represented by F. Anthoine, of Brussels, for "Improvements in harvesters."—Dated 5th February, 1859.

13. F. N. SIMON, of Brussels, for "A page for ladies' dresses."—Dated 15th February, 1859.

14. J. DOLNE, of Limbourg, for "A new system of drawing wool and cotton for spinning."—Dated 14th February, 1859.

15. N. BIENVENN, of Brussels, for an imported invention of "A new system of petticoats."—Dated 16th February, 1859.—(French Patent, 14th February, 1859.)

16. J. J. DECHÊNE, of Herstel, for "A system of stirrups with helical springs."—Dated 17th February, 1859.

17. P. B. E. MARTIN, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "An electro-motive apparatus."—Dated 17th February, 1859.—(Original Patent, 18th June, 1858.)

18. T. A. M. SORTAIS, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A self-acting system of conveying telegraphic messages."—Dated 17th February, 1859.—(Original Patent, 16th December, 1858.)

19. J. B. FALNGINÈRE, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of mills with vertical millstones working at a high speed."—Dated 17th February, 1859.—(Original Patent, 14th September, 1857.)

20. A. L. A. FAVIER, represented by O. Daillencourt, of Brussels, a Patent of Improvement for "Modifications in his mode of manufacturing leather."—Dated 17th February, 1859.—(Original Patent, 17th November, 1858.)

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6. PATENTS DELIVERED ON THE 3RD MARCH.

1. J. F. COLFS HEYNE, of Antwerp, for "A system of railway chairs."—Dated 4th November, 1858.

2. J. F. COLFS HEYNE, of Antwerp, a Patent of Improvement for "A system of railway chairs and a mode of fixing rails thereon."—Dated 1st February, 1859.—(Original Patent, 4th November, 1858.)

3. A. L. A. FAVIER, represented by O. Daillencourt, of Brussels, a Patent of Improvement for "Additions to his process of tanning hides."—Dated 9th February, 1859.—(Original Patent, 20th October, 1858.)

4. S. A. BEERS, represented by F. Anthoine, of Brussels, for "Improvements in caps, iron rails of American railways, and in the mode of assembling the same."—Dated 15th February, 1859.

5. A. R. DALIFOL, represented by A. Crooy, of Brussels, for an imported invention of "A system of furnaces for smelting and refining malleable cast-iron, iron, and steel."—Dated 16th February, 1859.—(French Patent, 7th January, 1859.)

6. A. LARTIGUE, of Boussu, for "A spout twyer, applicable to all forges."—Dated 15th February, 1859.

7. A. E. PÉRIGNON, represented by X. Raclot, of Brussels, a Patent of Improvement for "Additions to his system of steam-boilers."—Dated 17th February, 1859.—(Original Patent, 15th October, 1857.)

8. J. J. LEFEBVRE, of Brussels, a Patent of Improvement for "Additions to his process for retting textile substances."—Dated 18th February, 1859.—(Original Patent, 6th January, 1857.)

9. E. ROUSSEAU, represented by H. Biebuyck, of Brussels, for an imported invention of "A mode of discolouring and purifying sugar or products obtained directly from plants."—Dated 18th February, 1859.—(French Patent, 30th December, 1858.)

10. L. PERRIN, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in revolvers."—Dated 18th February, 1859.—(French Patent, 19th February, 1859.)

11. F. PRINCE, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in breech-loading fire-arms."—Dated 18th February, 1859.—(English Patent, 28th January, 1859.)

12. P. T. JOLY, represented by O. Daillencourt, of Brussels, for an imported invention of "Applying a known means to raising liquid or muddy substances by means of a vacuum obtained in any vessel."—Dated 19th February, 1859.—(French Patent, 24th January, 1859.)

13. C. A. TERREIL and J. M. T. CHÂTEAU, represented by O. Daillencourt, of Brussels, for an imported invention of "A process for purifying acetic acid obtained from distilled organic substances."—Dated 19th February, 1859.—(French Patent, 1st December, 1858.)

14. V. P. DANDOY, of Verviers, for "A machine for washing cloth and fabrics."—Dated 21st February, 1859.

15. L. J. DELCOIGNE, of Blaton, for "Manufacture of a linen cloth, being a substitute for woollen bags in the manufacture of sugar."—Dated 22nd February, 1859.

16. F. LEMAIRE, of Cuesmes, for "A system of putting up engines for extracting coals from pits."—Dated 19th February, 1859.

17. W. PEARCE, represented by A. Depuichault, of Schaerbeek, for an imported invention of "Improvements in bottles, jugs, and other similar articles closed hermetically, or being impervious to water."—Dated 21st February, 1859.—(English Patent, 20th August, 1858.)

18. J. J. Hartmeyer and C. Thal, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in pumps."—Dated 21st February, 1859.—(French Patent, 8th September, 1858.)

19. A. F. Vandone, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in apparatus for carburetting gas."—Dated 21st February, 1859.—(French Patent, 27th May, 1858.)

20. J. A. Ballande, represented by X. Raclot, of Brussels, for "Preparing writing paper and ink."—Dated 21st February, 1859.

21. A. Chavagneux, represented by A. Crooy, of Brussels, for an imported invention of "Fabrics with new wefts."—Dated 21st February, 1859.—(French Patent, 2nd December, 1858.)

22. F. Durant, represented by A. Crooy, of Brussels, a Patent of Improvement, for "A self-acting weaving loom."—Dated 21st February, 1859.—(Durant and Pradel's, French Patent, 6th December, 1858.)

23. J. H. G. Wagner, represented by O. Daillencourt, of Brussels, for an imported invention of "Apparatus for removing substances suspended and dissolved in the water used for feeding steam-boilers, being also applicable to other purposes."—Dated 21st February, 1859.—(French Patent, 19th February, 1859.)

24. G. de Pierpont, represented by H. Biebuyck, of Brussels, for "Improvements in Simoneau's lime kiln."—Dated 22nd February, 1859.

25. J. J. Cregeen and J H. Dickson, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in treating vegetable fibres in general, and in machines, apparatus, and processes employed thereat."—Dated 22nd February, 1859.—(English Patent, 16th June, 1858.)

26. M. F. Philippien, of Liege, for "Composing elixirs."—Dated 21st February, 1859.

27. J. M. Tinlot, of Herstal, for "Two systems of simple pistols for target shooting and defence."—Dated 21st February, 1859.

28. J. Petrie, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in apparatus for drying the warps of tissues, thread and tissues."—Dated 23rd February, 1859.—(English Patent, 30th June, 1858.

29. G. Adshead, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in steam-boilers."—Dated 23rd February, 1859.—(English Patent, 15th June, 1858.)

30. C. Martin, of Pepinster, for "A machine for oiling wool, applicable to carding machines."—Dated 24th February, 1859.

31. C. J. Gilsoe, of Liege, for "A system of breech-loading fire-arms."—Dated 19th February, 1859.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

288. Armand Michel Goyot, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 18th August, 1854, for "Lamps, candles, and night-lights."—Dated 20th January, 1859.

289. Ferdinand Loefler, of 17, Rue Notre Dame de Nazareth, Paris, for "A new metal for casting bells of all sizes."—Dated 20th January, 1859.

290. Prudent Marie Coustans, of 20, Rue de Navarin, Paris, for "A mode of advertising, called 'industrial indicator.'"—Dated 20th January, 1859.

291. William Bray, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in locomotives and traction engines."—Dated 20th January, 1859.

292. Charles Gutkind, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A composition for lubricating axles, pivots, &c."—Dated 20th January, 1859.

293. Messrs. Fontaine, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of fastenings of gloves."—Dated 20th January, 1859.

294. Balze and Le Grip, the former of 8, Rue du Jardines, the latter of 116, Rue de Rivoli, Paris, for "A dragging apparatus for apartments."—Dated 20th January, 1859.

295. Jean Louis Buffet, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of clarinets."—Dated 20th January, 1853.

296. Joshua Cetlon, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in cotton gins."—Dated 20th January, 1859.—(American Patent, expiring 13th July, 1872.)

297. Adolphe Jean Motlet, represented by Moller, of 5, Rue du Sentier, Paris, for "A system of folding lace work, &c."—Dated 21st January, 1859.

298. Neustadt and Bonnefond, the former of 71, Rue de Chabrol, the latter of 10, Rue de Parme, Paris, a Certificate of Addition to their Patent of

* For the French Patent Law see No. 228 of this Journal.

23rd September, 1858, for "Apparatus for distributing water."—Dated 21st January, 1859.

299. Joseph Caumont, represented by Bradie, of 22, Rue Ste. Anne, Paris, a Certificate of Addition to his Patent of 11th January, 1859, for "An electric repelling apparatus."—Dated 21st January, 1859.

300. César Felix Joseph and Aublé and Lobrichon, of 1, Rue Pernelle, Paris, for "Smoking pipes of new meerschaum, called 'ali.'"—Dated 21st January, 1859.

301. Pierre Joseph Carré, of 7, Rue Vielle Notre Dame, Paris, a Certificate of Addition to his Patent of 28th October, 1854, for "Relief printing on all tissues or stuffs by using all kinds of metals such as gold, silver, &c."—Dated 21st January, 1859.

302. Cox and Millar, represented by Wood, of 8, Place de la Bourse, Paris, for "Improvements in the mechanical manufacture of cork stoppers."—Dated 21st January, 1859.

303. De Pron de la Maisonfort, of 28, Rue Culture Ste. Catherine, Paris, a Certificate of Addition to his Patent of 20th September, 1853, for "Foliating mirrors."—Dated 21st January, 1859.

304. Louis Pierre Alexandre Martin, of 79, Rue des Marais, St. Martin, Paris, a Certificate of Addition to his Patent of 20th November, 1857, for "Improvements in keyboard instruments, and chiefly in expressive organs." — Dated 21st January, 1859.

305. Besançon, Pellerin, and Tam, of 52, Rue du Château d'Eau, Paris, for "Apparatus for drying fecula."—Dated 21st January, 1859.

306. Jean Joseph Lalande, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A diluting apparatus."—Dated 21st January, 1859.

307. Lacarrière, senr. and junr., and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of joints for pipes for conveying gas, water, steam, and other fluids."—Dated 21st January, 1859.

308. Pierre Domerex, of 53, Rue de Bretagne, Paris, for "A system of pumps."—Dated 22nd January, 1859.

309. Jean Louis Cyrille Honoré Galy, of 12, Rue du Perche, Paris, for "Illuminating by means of hydro-carburets, and chiefly by means of the vapour of benzine combined with hydrogen insufficiently carburetted." — Dated 22nd January, 1859.

310. Giovanni Caselli, domiciled at the Legation of Tuscany, Paris, for "A pantelegraph, or improvements in telegraphs."—Dated 22nd January, 1859.

311. Jean Louis Aléxandre Philippe Choquet, of 2, Rue des Nonains d'Hyères, Paris, for "A pocket cushion, called 'anti-pain cushion.'"—Dated 22nd January, 1859.

312. Théodore Gombert, of Malizai, département des Basses Alpes, for "Improvements in digging ploughs."—Dated 22nd January, 1859.

313. Zani Brothers, of Chaumont, département de la Haute Marne, for "A means of preventing locomotives from running off the rails and from sliding."—Dated 24th January, 1859.

314. Ponel-Lacour, Dufour, and Colomb, of 9, Place Marengo, St. Etienne, département de la Loire, for "A loom for improving so-called 'caoutchouc perlerette lace-work."—Dated 25th January, 1859.

315. François Theinotré Charlot, of Route d'Alençon, département de la Sarthe, a Certificate of Addition to his Patent of 4th February, 1858, for "An economical hot-air stove."—Dated 25th January, 1859.

316. Henri Hazebroucq, of Werwix, Sud, département du Nord, for "A reel."—Dated 26th January, 1859.

317. Gustave Bornègue, of Bavilliers, département du Haut Rhin, a Certificate of Addition to his Patent of 16th January, 1855, for "Applying a mechanism of two shuttles to mechanical weaving."—Dated 21st January, 1859.

318. Louis Jules Lavergne, of Rue des Trois Piliers, Poitier, département de la Vienne, a Certificate of Addition to his Patent of 3rd April, 1858, for "A combination for giving greater strength to railways." — Dated 25th January, 1859.

319. Louis Félix Lefebvre, of St. Quentin, département de l'Aisne, for "A cock with clack valves and gearings." — Dated 26th January, 1859.

320. Joseph Marie Perrigault, of 1, Rue de la Monnaie, Renne, département de l'Ile et Vilaine, for "Means of destroying or moderating the pressure of steam against the slides of engines."—Dated 26th January, 1859.

321. Jean Lutard, of Libourne, département de la Gironde, for "A twyer for iron-works."—Dated 26th January, 1859.

322. Jacques Edme Pichet, of Neufmanil, département des Ardennes, for "Manufacture of sheet-iron nails."—Dated 27th January, 1859.

323. Tournier, Barzon, and Co., of Ste. Colombe, département du Rhône, for "Strengthening pieces of wood, iron, &c. requiring a resisting power superior to their scantling."—Dated 24th January, 1859.

324. François Louis Lesaulnier, of Château-Gonthier, département de la Mayenne, for "A machine for preparing roads." — Dated 26th January, 1859.

325. Jean Nacher, of 51, Rue Royet, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 12th February, 1855, for "A system of jointed beat-up with double faces, for embossing Jacquart machines." — Dated 27th January, 1859.

326. Emmanuel Le Barazer, of 44, Cours Napoléon, Bordeaux, département de la Gironde, for "A life apparatus for the navy."—Dated 27th January, 1859.

327. Nicolas Georges Berton, of Mutzig, département du Bas Rhin, for "An apparatus for filling and clearing smoking pipes."—Dated 25th January, 1859.

328. Louis Auguste Machistre, of Vigan, département du Gard, for "A kind of basin for twisting silk whilst spinning the same."—Dated 25th January, 1859.

329. Jean Baessler, of Guebwiller, département du Haut Rhin, for "Means of restoring old shuttles of weavers." — Dated 27th January, 1859.

330. Alexandre Pallordet, of 5, Rue Basse Combalot, Lyon, département du Rhône, for "A process for binding lasts of shoemakers with iron."—Dated 27th January, 1859.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

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Notices to Proceed.

NOTICE is hereby given, that

2491. JOHN RICHMOND, Engineer and Machinist, of 21, Carlisle Terrace, Fairfield Road, Bow, in the county of Middlesex, JOSEPH QUICK, junr., and ALEXANDER FRASER, Civil Engineers, both of Sumner Street, Southwark, in the county of Surrey, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Construction of a meter for measuring water, spirits, or any other fluids."

As set forth in their petition, recorded in the said office on the 8th day of November, 1858.

2502. And EDWARD ELLIS ALLEN, of Brompton Row, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improved machinery or apparatuses for working the propellers of vessels."

2506. And MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "Improvements in and in the manufacture of locks and fastenings, and keys for the same."—A communication from Mr. Rebour.

As set forth in their respective petitions, both recorded in the said office on the 9th day of November, 1858.

2518. And JOHN CORNER, of 15, Artillery Place, and 16, City Road, Finsbury Square, London, Boot and Shoe Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for making metallic screw rivets, and for uniting with themparts of boots, shoes, portmanteaus, leather hose, buckets, harness, and other leathern articles."

As set forth in his petition, recorded in the said office on the 10th day of November, 1858.

2528. And JOHN BLETHYN, of Swansea, in the county of Glamorgan, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of fuel."

2536. And ARTHUR MICKELTHWATE, of Sheffield, in the county of York, has given the like notice in respect of the invention of "Improvements in treating and manufacturing buffalo and other horn, so as to be used as a substitute for whalebone, and for other useful purposes."

As set forth in their respective petitions, both recorded in the said office on the 11th day of November, 1858.

2542. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "An improved apparatus for illustrating conic sections, and the lines of the globe."—A communication.

As set forth in his petition, recorded in the said office on the 12th day of November, 1858.

2548. And JAMES TAYLOR, of Birkenhead, Engineer, has given the like notice in respect of the invention of "Improvements in portable steam engines."

2551. And LOUIS PETRE, of Hatton Garden, in the county of Middlesex, Glass Silverer, has given the like notice in respect of the invention of "Improvements in the application of glass to ornamental and useful purposes."

2555. And ALONZO BUONAPARTE WOODCOCK and JOHN MACMILLAN DUNLOP, both of Manchester, have given the like notice in respect of the invention of "Improvements in covering rollers, shafts, and tubes, of any figure or material, with elastic shells or covers of vulcanized india rubber, or other elastic substance, and in turning or grinding the surfaces of such elastic covers or shells."

2556. And DANIEL FRODSHAM, of Rose Cottage, Gurney Road, Stratford, in the county of Essex, has given the like notice in respect of the invention of "Improvements in apparatus used in

combination with fire boxes of tubular steam boilers, in order to supply air and steam thereto."

2557. And MATTHEW PULLAN, of Horsforth, near Leeds, in the county of York, Bleacher, has given the like notice in respect of the invention of "Improvements in machinery for drying yarns and other materials."

2558. And JOHN ADDY HOPKINSON, of Huddersfield, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in steam boilers."

As set forth in their respective petitions, all recorded in the said office on the 13th day of November, 1858.

2564. And WILLIAM GEORGE ARMSTRONG, of the borough and county of Newcastle-on-Tyne, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of ordnance."

2568. And JOHN GOLDING BUNTING, of the city of Saint John, in the province of New Brunswick, in British North America, but at present at the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, has given the like notice in respect of the invention of "A mechanical horse-tamer or brake."

As set forth in their respective petitions, both recorded in the said office on the 15th day of November, 1858.

2571. And JOSEPH CONSTANT BOISNEAU, of Chatellerault, in the French empire, Engineer, has given the like notice in respect of the invention of "An improved horse-mill or gear."

2572. And ALFRED ISIDORE HONORÉ PARENT, of Paris, in the French empire, Manufacturer, has given the like notice in respect of the invention of "An improved manufacture of buttons, and the apparatus employed therein."

2575. And CHARLES JAMES CLOWES PERRY, of Williamstown, in the colony of Victoria, Member of the Legislative Assembly, has given the like notice in respect of the invention of "An instrument to be used chiefly on board ship for approximating in certain cases the course of an approaching vessel, either in the day or night, and the relative angle of both ships' courses, in order to avoid a collision, to be called 'Perry's Anti-collision Dial.'"

2578. And ALEXANDRE MARTIN BRUÈRE, of Paris, in the empire of France, Gentleman, has given the like notice in respect of the invention of "The novel application of hydrogen gas to various purposes in the arts."

As set forth in their respective petitions, all recorded in the said office on the 16th day of November, 1858.

2584. And JOSEPH HENRY TUCK, of Great George Street, Westminster, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the mode of laying and securing telegraphic cables, and in apparatus for the same, and for carrying on other operations under water."

2586. And EDWARD WELCH, of No. 63, Saint John's Square, Clerkenwell, Tobacco Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of tobacco, and in apparatus therefor."

2587. And JOHN ROBERTSON, of Saint Ninians, in the county of Stirling, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in musical instruments."

2588. And MICHAEL SCOTT, of No. 3, Stanhope Terrace, Hyde Park Gardens, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the construction of breakwaters, parts of which are applicable in making other structures."

2591. And JOHN BRENNAND, of Manchester, in the county of Lancaster, Calico Printer, has given the like notice in respect of the invention of "An improvement in ploughs, and in other agricultural implements, and in the method of driving the same."

As set forth in their respective petitions, all recorded in the said office on the 17th day of November, 1858.

2601. And Sir CHARLES TILSTON BRIGHT, of Harrow Weald, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in insulators, and an improved mode of connecting insulators to posts and other supports."

2604. And JOHN LESLIE, of Conduit Street, Saint George's Hanover Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of gas."

As set forth in their respective petitions, both recorded in the said office on the 18th day of November, 1858.

2615. And JOHN EDWARDS, of No. 77, Aldermanbury, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of trowser-buttons."

2626. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of electric telegraph cables or conductors."—A communication from Henry J. Rogers, resident at Baltimore, Maryland, in the United States of America.

2630. And THOMAS STOKES CRESSEY, of High Street, Homerton, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in machinery used in the manufacture of casks."

As set forth in their respective petitions, all recorded in the said office on the 19th day of November, 1858.

2635. And HENRY ELLIS, of Holbeach, in the county of Lincoln, Engineer and Agricultural Implement Maker, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cultivating, cleaning, and pulverising land."

As set forth in his petition, recorded in the said office on the 20th day of November, 1858.

2654. And WALTER RALSTON, of the city of Manchester, in the county of Lancaster, Engraver to Calico Printers, has given the like notice in respect of the invention of "Improvements in embossing and finishing woven fabrics, and in the machinery or apparatus employed therein."

2656. And WILLIAM GORMAN, of Glasgow, in the county of Lanark, North Britain, Engraver, has given the like notice in respect of the invention of "Improvements in furnaces, and in the combustion of fuel, and in apparatus connected therewith."
As set forth in their respective petitions, both recorded in the said office on the 23rd day of November, 1858.

2662. And RICHARD HUGH HUGHES, of Hatton Garden, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in means or apparatus employed when lighting by gas."
As set forth in his petition, recorded in the said office on the 24th day of November, 1858.

2679. And CHARLES PARKER, of Dundee, in the county of Forfar, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in looms for weaving."
As set forth in his petition, recorded in the said office on the 25th day of November, 1858.

2700. And HUGH LEE PATTINSON, of Stotes Hall, Jesmond, Newcastle-upon-Tyne, has given the like notice in respect of the invention of "Improvements in utilizing the heat of slags of iron and other works."
As set forth in his petition, recorded in the said office on the 27th day of November, 1858.

2711. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improved expansion or cut off gear for steam engines."—A communication.
As set forth in his petition, recorded in the said office on the 29th day of November, 1858.

2730. And AUGUST EMIL CLEMENS SCHEIDEL, of the firm of Gouda, Scheidel, and Co., of Frankfort-on-the-Main, in Germany, and Watling Street, in the city of London, Manufacturers, has given the like notice in respect of the invention of "Improvements in fastenings for belts, braces, garters, books, porte-monnaies, portfolios, pocket-books, invoice, writing and cigar cases, reticules, bags, and other similar articles, or purposes."—A communication from P. F. Gouda.
As set forth in his petition, recorded in the said office on the 30th day of November, 1858.

2751. And LEVI BISSELL, of the city and state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in trucks for locomotive engines."
As set forth in his petition, recorded in the said office on the 1st day of December, 1858.

2761. And MICHAEL HENRY, of No. 84, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "Improvements in manufacturing and revivifying bone black, or animal charcoal, and in kilns and apparatus employed therein."—A communication from J. A. Lagard.
As set forth in his petition, recorded in the said office on the 14th day of December, 1858.

2871. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery for manufacturing bullets."—A communication.
As set forth in his petition, recorded in the said office on the 15th day of December, 1858.

2959. And JAMES MACPHERSON, of Aberdeen, in the county of Aberdeen, North Britain, Comb Manufacturer, has given the like notice in respect of the invention of "Improvements in solidifying the raspings and other waste of horns and hoofs, and in applying the process to the cementing of prepared horns, hoofs, and tortoiseshell."
As set forth in his petition, recorded in the said office on the 27th day of December, 1858.

91. And WILLIAM BRAY and WILLIAM THOMAS GEORGE BRAY, both of Folkestone, in the county of Kent, Engineers, have given the like notice in respect of the invention of "Improvements in locomotive and traction engines."
As set forth in their petition, recorded in the said office on the 12th day of January, 1859.

448. And CHARLES FAY, of Manchester, in the county of Lancaster, Railway Carriage Builder, has given the like notice in respect of the invention of "Improvements in apparatus for working railway breaks."
As set forth in his petition, recorded in the said office on the 17th day of February, 1859.

463. And SAMUEL WHEATCROFT, of Brudenell Place, New North Road, county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in the method of, and the means for, uniting lace to blond and other fabrics, and also in the apparatus used for manufacturing or converting the same into bonnet and cap fronts, rouches, and such like similar articles of millinery."
As set forth in his petition, recorded in the said office on the 19th day of February, 1859.

502. And JAMES HOLMS, of Glasgow, in the county of Lanark, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for propelling vessels, ships, and boats."

507. And ENOCK PRICE, of Doncaster, in the county of York, Railway Contractor, and EDMUND HAWKINS, of the same place, Builder and Contractor, have given the like notice in respect of the invention of "Improvements in the mode of forming fish plates, and in the method of fixing or attaching them to the joints of rails on railways."
As set forth in their respective petitions, both recorded in the said office on the 24th day of February, 1859.

528. And GEORGE HORNER, of Falls Road, Belfast in the county of Antrim, Ireland, Machinist, has given the like notice in respect of the invention of "Improvements in hackling flax and other fibrous materials, and in machinery for the same."
As set forth in his petition, recorded in the said office on the 28th day of February, 1859.

549. And James Maxwell Adams, Gentleman, and David Law, and John Inglis, Iron Founders, all of Glasgow, in the county of Lanark, North Britain, have given the like notice in respect of the invention of "Improvements in fire places, grates, ranges, and stoves."
As set forth in their petition, recorded in the said office on the 2nd day of March, 1859.

566. And James Dalziel Dougall, of Glasgow, in the county of Lanark, North Britain, Gun Maker, has given the like notice in respect of the invention of "Improvements in fire arms."
As set forth in his petition, recorded in the said office on the 3rd day of March, 1859.

580. And John Leigh, of the city of Manchester, in the county of Lancaster, Surgeon, has given the like notice in respect of the invention of "Improvements in the purification of coal gas."

581. And John Fraser, of the town and county of Banff, North Britain, Manager of the Banff Iron Foundry, has given the like notice in respect of the invention of "Improvements in ploughs."
As set forth in their respective petitions, both recorded in the said office on the 5th day of March, 1859.

589. And Hugh William Patrick, of No. 4, Mill Hill Terrace, Acton, in the county of Middlesex, has given the like notice in respect of the invention of "An improvement or improvements in apparatus for chemical and dental laboratories, or other manufacturing or experimental uses, which he proposes calling a 'paragon laboratory forge.'"

590. And Duncan Proudfoot, of Glasgow, in the county of Lanark, North Britain, Merchant, has given the like notice in respect of the invention of "Improvements in Turkey-red dyeing."

596. And Pierre Ernest Aimont, of Paris, in the French empire, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction of waggons and other carriages for railways and ordinary roads, and of apparatuses connected therewith."
As set forth in their respective petitions, all recorded in the said office on the 7th day of March, 1859.

628. And Nathan Washburn, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "A new and useful or improved machine for rolling tires for wheels."
As set forth in his petition, recorded in the said office on the 11th day of March, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Applications for Leave to enter a Disclaimer and Memorandum of Alteration.

In the matter of a Patent, bearing date 3rd July, 1858, granted to John Chisholm, of Bermondsey, in the county of Surrey, Manufacturing Chemist, for "A method of disinfecting and deodorizing or treating sewage, and other matters, and structures and places," No. 1,499.

Notice is hereby given, that the said John Chisholm has applied by petition to Her Majesty's Commissioners of Patents for Inventions, according to the Statutes in that case made and provided, for leave to enter a Disclaimer and Memorandum of Alteration of certain parts of the Specification of the said Patent.

M. Henry,
84, Fleet Street, London, E.C.,
Agent for the Patentee.

In the matter of Letters Patent granted to Alexander Theophilus Blakely, of Little Ryder Street, Saint James's, in the county of Middlesex, Captain of the Royal Artillery, for his invention of "Improvements in ordnance," bearing date the 27th day of February, 1855.

Notice is hereby given, that the said Alexander Theophilus Blakely, formerly of Little Ryder Street, Saint James's, but now of Wilton Place, Knightsbridge, in the county of Middlesex, Captain of the Royal Artillery, has applied by petition to the Commissioners of Patents, according to the Statutes in that case made and provided, for leave to enter a Disclaimer and Memorandum of Alteration of parts of the Specification of the said Letters Patent.

William Brookes,
No. 73, Chancery Lane, London,
Agent to the said Alexander Theophilus Blakely.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

22nd March, 1859.

2129. Thomas Howe, of Millwall, Poplar, for an invention of "Improvements in smiths' forges."—Dated 22nd September, 1858.

2140. Daniel Grant, of Ludgate Hill, in the city of London, Printer, for an invention of "Improvements in colour-printing presses."—Dated 23rd September, 1858.

2145. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for an invention of "Improvements in the manufacture of pile and cut pile fabrics, and in machinery employed therein."—A communication from A. I. Hargez, residing abroad.—Dated 24th September, 1858.

2181. Augustin Normand, of Havre, in the empire of France, Shipbuilder, for an invention of "Improvements in constructing ships and vessels propelled by screw or such like propellers."—Dated 30th September, 1858.

2197. Henry George Collins, of Paternoster Row, in the city of London, for an invention of "Improvements in the production of blocks or surfaces to be used in printing."—Dated 2nd October, 1858.

2205. Francis Trevithick, of Penzance, in the county of Cornwall, for an invention of "Improvements in applying sails and keels to boats and vessels."—Dated 4th October, 1858.

2221. Christopher Hill, of the Great Western Railway, Chippenham Station, for an invention of "Improvements in omnibuses, and in apparatus for upholding the windows of omnibuses and other carriages."—Dated 6th October, 1858.

2279. Henry Parker, of Sledmere Castle, in the East Riding of the county of York, Farmer and Land Agent, for an invention of "An improved apparatus for the cultivation of land and other agricultural operations."—Dated 13th October, 1858.

2387. Benjamin Goodfellow, of Hyde, in the county of Chester, Engineer, for an invention of "Certain improvements in steam engines."—Dated 27th October, 1858.

2455. Daniel Fryer, Thomas Leach, Cross Watt, and William Holmes, all of No. 48, Paternoster Row, in the city of London, for an nvention of "Improvements in tanning hides and skins."—Dated 3rd November, 1858.

2995. Samuel Stephen Bateson, of 17, Bolton Street, Mayfair, in the county of Middlesex, Barrister at Law, for an invention of "Improvements in generating steam."—Dated 30th December, 1858.

127. Robert Romaine, of Chapel Street, Bedford Row, in the county of Middlesex, Gentleman, for an invention of "An improved arrangement of portable railway."—Dated 14th January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 19th March, 1859, inclusive.*)

17th March.

633. John Mitchell, of Dunning's Alley, Bishopsgate Street Without, for an invention of "Improvements in apparatus for washing and amalgamating ores and other matters."—Dated 17th March, 1856.

642. Thomas Bird, of Manchester, in the county of Lancaster, Engineer, and Thomas Rose, of the same place, Engineer, for an invention of "Certain improvements in castors."—Dated 18th March, 1856.

18th March.

640. Peter Armand le Comte de Fontainemoreau, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, for an invention of "Improvements in churns."—Dated 18th March, 1856.

670. William Drummond, of Smith Street, King's Road, Chelsea, in the county of Middlesex, Surveyor, for an invention of "Improvements in spring hinges for swing doors."—Dated 20th March, 1856.

19th March.

666. John Watson Burton, of Eye, in the county of Suffolk, and George Pye, of Ipswich, in the same county, Flax Manufacturers, for an invention of "Improvements in treating flax, hemp, and other fibrous matters requiring like treatment."—Dated 20th March, 1856.

682. Gustav Georg Anton Ludwig Michael Schelhorn, of Birmingham, in the county of Warwick, Merchant and Manufacturer, for an invention of "A new or improved penholder."—Dated 22nd March, 1856.

707. John Dearman Dunnicliff, of Nottingham, Lace Manufacturer, and Stephen Bates, of Radford, in the county of Nottingham, Machinist, for an invention of "Improvements in the manufacture of twist lace and weavings."—Dated 25th March, 1856.

Erratum in Journal of 18th March.

After 2674, for "3746" read "2746."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

331. HENRI BRETON, of Grenoble, département de l'Isère, a Certificate of Addition to his Patent of 21st March, 1847, for "Disinfecting alcohol, &c." —Dated 27th January, 1859.

332. FONTAINE and LEFEVRE, the former of Gorrou, the latter of Brécé, département de la Mayenne, for "A machine for cleaning flax."—Dated 28th January, 1859.

333. LOUIS AUGUSTE MANGIN, of 74, Rue Richelieu, Paris, for "A hold for pages of ladies' dresses." —Dated 22nd January, 1859.

334. JOSEPH PAYEZ, of 95, Rue Neuve des Mathurins, Paris, for "A household mill for preparing, roasting, crushing, and pressing chocolate." — Dated 22nd January, 1859.

335. ANTOINE LOUIS ALFRED MONGÉ, of 66, Rue Lompoise, St. Denis, département de la Seine, for "A system of iron constructions."—Dated 22nd January, 1859.

336. JEAN JOACHIM, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of bricks."— Dated 22nd January, 1859.

337. BRIÈRE and ROWLAND, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A break."— Dated 22nd January, 1859.—(Belgian Patent, expiring 18th June, 1878.)

338. THOMAS BAILEY, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in repeating fire-arms."—Dated 22nd January, 1859.

339. LOUIS MAURICE KASRIEL, of 21, Rue des Trois Bornes, Paris, for "A system of harmonium flute or organine played by two hands."—Dated 22nd January, 1859.

340. GABRIEL MARIE POCHARD, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 25th January, 1858, for "A rotary and unfolding support of lamps."—Dated 22nd January, 1859.

341. CHARLES FRANÇOIS CATTAERT, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 6th September, 1858, for "A diver's lamp."— Dated 22nd January, 1859.

342. HENRY CRIVIER and Co., of 77, Rue de Rambuteau, Paris, a Certificate of Addition to their Patent of 23rd January, 1858, for "Manufacture of pins with fixed heads and others."— Dated 22nd January, 1859.

343. ADOLPHE BENDHEIM, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of portemonnaies, cigar holders, &c."—Dated 22nd January, 1859.

344. Mrs. HENRY SCHLOSS and Brother, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A lever-clasp, called 'Parisian clasp.'" —Dated 22nd January, 1859.

345. Mrs. HENRY SCHLOSS and Brother, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A galvano-plastic process and product." —Dated 22nd January, 1859.

346. ETIENNE MANSOY, of 150, Rue St. Jacques, Paris, for "Manufacture of horse-shoes by the steam hammer."—Dated 24th January, 1859.

347. AUGUSTE GERVAIS CATON, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "A crucible, with three compartments for making glass."—Dated 24th January, 1859.

348. POLYNICE AUGUSTE VIETTE, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "A process for engraving." — Dated 24th January, 1859.

349. LOUIS ALEXANDRE BROUST, of 14, Rue du Chevaleret, commune d'Ivry, a Certificate of Addition to his Patent of 6th February, 1858, for "A counter for liquids."—Dated 24th January, 1859.

350. JEAN AUGUSTE PROSPER VILLARD, of 12, Rue Pagerin, Paris, for "A portable distilling apparatus."—Dated 24th January, 1859.

351. EDOUARD ISAAC ASSER, represented by Bos-Darnis, of 36, Rue de l'Echiquier, Paris, for "A process for obtaining positive photographic proofs by means of printing or autographic ink, the proofs obtained by the latter ink being used as stereotypes."—Dated 24th January, 1859.

352. EMILE TONNELIER, represented by Bos-Darnis, for "A new system of pianos."—Dated 24th January, 1859.—(Belgian Patent, expiring 18th January, 1879.)

353. ARMAND JEAN ANTOINE LOUIS DE DAX, of Nogent sur Marne, département de la Seine, a Certificate of Addition to his Patent of 8th January, 1859, for "Improvements in the manufacture of fire-arms."—Dated 24th January, 1859.

354. MIGNOT and GENEBRIAS, of 30, Petite Rue St. Pierre-Amelot, a Certificate of Addition to

* For the French Patent Law see No. 228 of this Journal.

their Patent of 19th June, 1857, for "Pipes for draining and conveying water, &c."—Dated 24th January, 1859.

355. Léonor Marie Duquesnel, of 14, Rue de Beaune, Paris, for "A cupping apparatus with a direct action."—Dated 24th January, 1859.

356. Stanislas Julien Ostorog, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of organs, whereby they are made portable, or so-called 'travelling melodinas and organ-pianos.'"—Dated 24th January, 1859.

357. Pierre Theophile Joly, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Applying a known means to raising liquid or muddy substances by means of a vacuum obtained in any vessel."—Dated 24th January, 1859.

358. Joseph Rogé, represented by Gardissall, of 29, Boulevart St. Martin, Paris, for "Improvements in cartridge-boxes, &c."—Dated 24th January, 1859.

359. Eugène de Martres, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Obtaining a self-acting apparatus for levelling or pointing fire-arms."—Dated 24th January, 1859.

360. Hippolyte Thébaud, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Compressing dryed flour."—Dated 24th January, 1859.

361. Caré and Claparède, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Apparatus for excavating canals and rivers by conveying the soil by machines."—Dated 24th January, 1859.

362. Mrs. Adélaide Aglaé Mutel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the composition of pads (tampons)."—Dated 24th January, 1859.

363. Augustin Renchon, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for assembling springs applicable to ladies' dresses, crinolines, and others."—Dated 24th January, 1859.

364. Ernest Rondelet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 14th July, 1858, for "Improvements in the manufacture of umbrellinos used in religious ceremonies."—Dated 24th January, 1859.

365. Jules Guillaume Chéret, of 21, Rue St. Paul, Paris, for "A mark for smoking pipes."—Dated 25th January, 1859.

366. Eugène Grenet, of 53, Avenue Montaigne, Paris, a Certificate of Addition to his Patent of 8th January, 1857, for "An electric battery."—Dated 25th January, 1859.

367. Hippolyte Grellier, of 36, Rue du Dragon, Paris, for "A railway break."—Dated 25th January, 1859.

368. François Oscar Barroy, of 18, Rue de Ménilmontant, Paris, for "Moveable hat-stands."—Dated 25th January, 1859.

369. Jules André Vorrin, domiciled 3, Rue de la Saunerie, Paris, for "A screw bevil for pictures, movements, clocks, &c."—Dated 25th January, 1859.

370. Verdeil and Michel, represented by Basset, of 14, Boulevart Montmartre, Paris, for "Treatment of madder."—Dated 25th January, 1859.

371. Louis Emile Gaveau, of 188, Rue du Faubourg, St. Martin, Paris, for "Machines for making bolts and rivets."—Dated 25th January, 1859.

372. Eloi Jean Baptiste Bournet, of 158, Grande Rue à la Chapelle, St. Denis, for "A system of railway switches."—Dated 25th January, 1859.

373. Edouard Souché, of 1, Rue Charlot aux Ternes, for "A system of bridles."—Dated 25th January, 1859.

374. Mrs. Marie Louise Fickter, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A hand-made net voilette."—Dated 25th January, 1859.

375. Joseph Antoine Jean Redier, of 16, Cour des Petites Ecuries, Paris, for "A small alarum clock."—Dated 25th January, 1859.

376. Théophile Julien Laballe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process for vulcanizing and colouring caoutchouc."—Dated 25th January, 1859.

377. Jean Nanzieres, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 2nd February, 1858, for "Manufacture of a kind of fulled cloth."—Dated 25th January, 1859.

378. Gombeau and Royer, jun., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 10th July, 1858, for "A barley mill with a cleaning apparatus and steel cylinders for breweries."—Dated 25th January, 1859.

379. Edouard Hardy, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A thermoscope with a differential controlling apparatus for lighthouses, signal disks, artificial hatching apparatus, &c."—Dated 25th January, 1859.

380. Galli and Paganetti, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 11th September, 1858, for "Improvements in smoke-consuming apparatus."—Dated 25th January, 1859.

381. Frédéric Jacobi, of 3, Rue Fournier, Batignolles, for "A case for smoking pipes."—Dated 26th January, 1859.

382. François Eléonore Gomot, of 50, Rue St. Sauveur, Paris, for "Silvering the inside of kitchen vessels and utensils."—Dated 26th January, 1859.

383. Joseph Antoine Dalmas, of 44, Rue Haute Rotonde, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 21st April, 1858, for "A system of inodorous pans for closets."—Dated 24th January, 1859.

384. Léon Cusse, of Nîmes, département du Gard, for "Burners applicable to lighting apparatus fed by liquids composed of rectified alcohol and essence of turpentine."—Dated 24th January, 1859.

385. John Martin Rowan, represented by Burel, of 3, Rue d'Harcourt, Rouen, département de la Seine Inférieure, for "Improvements in steam-engines and boilers."—Dated 25th January, 1859.

386. Léopold Aron Hirtz, of Saverne, département du Bas Rhin, a Certificate of Addition to his Patent of 10th February, 1858, for "An hygienic chair."—Dated 26th January, 1859.

387. Alfred Bernard, of 9, Place Royale, Marseille, département des Bouches du Rhône, for "A kind of hats."—Dated 27th January, 1859.

388. Louis Charton, of Dampierre, département de l'Aube, for "Joining walls with tusks."—Dated 28th January, 1859.

389. André Cointry, of Ile Gloriette, Nantes, département de la Loire Inférieure, for "A machine worked by steam, compressed air, or any electric fluid."—Dated 29th January, 1859.

390. Jean Alexandre Mimard, of Villeneuve sur Yonne, département de l'Yonne, for "A mechanical steam horse."—Dated 29th January, 1859.

391. Alexandre Joseph Guilloteau, of St. Quentin, département de l'Aisne, for "A system of furnaces for fixed and moveable steam-engines and other industrial purposes." — Dated 31st January, 1859.

392. Joseph Tenaud, of Montoir, département de la Loire Inférieure, a Certificate of Addition to his Patent of 29th May, 1858, for "Manufacture of bricks."—Dated 1st February, 1859.

393. Louis Dupir, of St. Leu d'Esserent, département de l'Oise, for "Improvements in rasps for the manufacture of fecula."—Dated 1st February, 1859.

394. Eugène Goddier, represented by Petit, of 10, Rue Mogador, Paris, a Certificate of Addition to his Patent of 25th November, 1858, for "Applying talc or mica to various purposes."—Dated 26th January, 1859.

395. Richard Luther, of 5, Rue St. Claude au Marais, Paris, for "A case for smoking pipes." —Dated 26th January, 1859.

396. Paillard and Fosset, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A sewing machine."—Dated 26th January, 1859.

397. Etienne Brun, of 20, Rue des Grands Augustins, Paris, for "A system of railway signals."—Dated 26th January, 1859.

398. The Electro Weaving Joint Stock Company, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Electrical apparatus applicable to Jacquart machines for weaving figured stuffs according to Bonelli's system and improvements."—Dated 26th January, 1859.

399. De Bronac and Deherrypon, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Treatment of metallic sulphurets, phosphurets, arseniurets, antimoniurets, &c., and especially of sulphur-ores of lead, antimony, copper, silver, zinc, &c."—Dated 26th January, 1859.

400. Jean Baptiste Chirol, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 30th July, 1858, for "A brush-card, being a substitute for common cards."—Dated 26th January, 1859.

401. Louis François Devisme, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd December, 1858, for "A kind of revolver."—Dated 26th January, 1859.

402. Messrs. Fontaine, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 10th December, 1858, for "Cutting gloves."—Dated 26th January, 1859.

403. Pierre François Herbeaumon, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of ventilating and opening and closing hothouses."— Dated 26th January, 1859.

404. Nicolas Claise, represented by Binaud de Montuzet, of 16, Rue La Croix, Batignolles, for "Mineral teeth with shanks."—Dated 26th January, 1859.

405. Joseph Israël, of 29, Rue Volta, Paris, for "Applying porcelain to jewellery."—Dated 27th 1859.

406. Douglas Bly, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in the construction of artificial legs."—Dated 27th January, 1859.— (American Patent, expiring 28th July, 1871.)

407. Etienne Dumaige, of 305, Rue St. Jacques, Paris, for "A manometer with a proportional dynamic resistance."—Dated 27th January, 1859.

408. Jules Rival, of 55, Rue Montmartre, Paris, a Certificate of Addition to his Patent of 22nd May, 1858, for "A manometer with an apparatus for ascertaining specific weight, and combined with a regulator."—Dated 27th January, 1859.

409. Napoléon Jacobs, of 25, Boulevart Bonne-Nouvelle, Paris, for "Galvanized heels for foot coverings."—Dated 27th January, 1859.

410. Félix Aroux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the method of sowing."—Dated 27th January, 1859.

411. Félix Aroux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 14th July, 1857, for "A system of sowing machines with manifold wheels."—Dated 27th January, 1859.

412. Nicolas Thirion, of 76, Rue Popincourt, Paris, a Certificate of Addition to his Patent of 17th April, 1851, for "An hydraulic machine for raising water to any height, &c."—Dated 27th January, 1859.

413. Charles Girard Jacquot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A barometric condensor for steam engines."—Dated 27th January, 1859.

414. Charles Girard Jacquot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 16th De-

cember, 1858, for "A barometric evaporating apparatus for evaporating or drying any substance."—Dated 27th January, 1859.

415. Jean Remy Lafone, of 18, Rue Rodier, Paris, a Certificate of Addition to his Patent of 30th July, 1856, for "A heating apparatus for laundries."—Dated 27th January, 1859.

416. François Ferdinand Sether, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A fountain penholder."—Dated 27th January, 1859.

417. Charles Collard, represented by Féquant, of 8 et 10, Rue Bertin Poiré, Paris, for "Manufacture of selvage lace for the manufacture of foot coverings."—Dated 28th January, 1859.

418. Claude Laurent Guillard, of 27, Rue du Pressoir, Belleville, for "Travelling boxes for dresses and bonnets."—Dated 28th January, 1859.

419. François Félix Rateau, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A machine worked by regenerated steam."—Dated 28th January, 1859.

420. Samuel Riley, domiciled with Perret, Hôtel Britannique, of 2, Rue des Halles, Paris, for "Improvements in the manufacture of hats, caps, &c."—Dated 28th January, 1859.—(English Patent, expiring 18th November, 1872.)

421. Auguste Désiré Montagnat, of 17, Rue Campagne Première, Paris, for "Manufacture of horse-shoes."—Dated 28th January, 1859.

422. Emile Adolphe Auguste Amouroux, represented by Amouroux, of 333, Rue St. Martin, Paris, for "So-called 'poly-square bits for watch-keys.'"—Dated 28th January, 1859.

423. Mrs. Emma Isabelle Bouffar, of 47, Rue des Martyrs, Paris, for "A mode of conveyance."—Dated 28th January, 1859.

List of Specifications, &c. published during the week ending 18th March, 1859.

No.	Price.	Subject-Matter.
1821	5*d.*	Cocks, taps, or valves.
1824	7*d.*	Apparatus for lifting or pressing.
1825	6*d.*	Machinery for doubling cotton and other yarns or threads.
1826	10*d.*	Knitting machines.
1827	6*d.*	Machinery for combing wool.
1828	3*d.*	Manufacture of wire ropes or cables.
1829	3*d.*	Time keepers.
1830	3*d.*	Apparatus for exhibiting advertisements.
1831	3*d.*	Textile fabrics.
1832	9*d.*	Machinery for preparing and spinning cotton, &c.
1833	3*d.*	Steam engine.
1835	6*d.*	Wheels.
1836	1*s.* 10*d.*	Valve musical instruments.
1837	10*d.*	Pressure gauges.
1838	3*d.*	Brushes, mops, &c.
1839	6*d.*	Propelling ships and vessels.
1840	1*s.* 4*d.*	Apparatus used when making moulds for casting shells, &c.
1841	3*d.*	Puddling iron.
1842	6*d.*	Apparatus for supplying water to axle-tree boxes and other journal bearings.
1843	1*s.* 3*d*	Haymaking machines, &c.
1844	6*d.*	Apparatus for crushing and sifting.
1845	3*d.*	Dyeing textile fabrics, &c.
1846	3*d.*	Apparatus for exhibiting advertisements.
1847	1*s.* 4*d.*	Stocks for fire arms.
1848	5*d.*	Electric telegraph ropes or cables.
1849	1*s.* 1*d.*	Locomotive engines and other carriages, &c.
1850	9*d.*	Machinery for stretching and drying woven fabrics.
1851	10*d.*	Machinery for preparing and spinning cotton, &c.
1852	3*d.*	Machinery for the manufacture of printing types, &c.
1853	7*d.*	Treatment of crude india rubber, gutta percha, &c.
1854	3*d.*	Apparatus for straightening gun barrels.
1855	3*d.*	Manufacture of hats, caps, &c.
1856	9*d.*	Jacquard looms.
1857	1*s.* 4*d.*	Looms for weaving.
1859	11*d.*	Blast furnaces, &c.
1860	5*d.*	Dyeing wool, hair, cotton, &c.
1861	10*d.*	Manufacture of artificial gums from starch, farina, &c.
1863	3*d.*	Fabric for belting, hose, &c.
1864	3*d.*	Ornamenting fabrics, &c.
1866	7*d.*	Stereoscopes, &c.
1867	3*d.*	Railway danger signal.
1868	1*s.* 11*d.*	Connecting pipes, tubes, or ways for the conveyance of water, &c.
1869	9*d.*	Machinery for forging horseshoes.
1870	6*d.*	Apparatus for obtaining motive power.
1871	3*d.*	Projectile.
1872	6*d.*	Harmoniums, concertinas, &c.
1873	3*d.*	Manufacture of hats.
1874	3*d.*	Mangles.
1875	5*d.*	Projectiles.
1876	6*d.*	Spindles for spinning silk, &c.
1877	3*d.*	Machinery for cutting staves.
1878	3*d.*	Treating tan, &c.
1879	8*d.*	Preventing the accidental discharge of fire-arms.
1880	7*d.*	Blank forms of bankers' cheques or drafts.
1881	5*d.*	Propellers.
1882	3*l.*	Apparatus for churning or washing.
1883	7*d.*	Stuffing boxes and packings.
1884	3*d.*	Preparing cheques for preventing forgery.
1886	3*d.*	Looms for weaving.
1887	10*d.*	Implement for protecting turnip and other crops from the fly.
1888	3*d.*	Joists and laths for supporting floors used in drying grain.
1889	3*d.*	Electro-magnetic machines.
1890	9*d.*	Steam engines
1899	3*d.*	Looms for weaving.
1915	6*d.*	Mills for grinding.
1921	11*d.*	Self-acting lubricators.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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——— Sheerness ditto.
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——— Pembroke ditto.
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Day of Month.	Day of Week.	Morning.	Evening.	Total.
Mar. 14	Monday -	69	415	484—Very wet.
„ 15	Tuesday -	145	473	618—Fine.
„ 16	Wednesday	133	50	183— „
„ 17	Thursday*	84	—	84— „
„ 18	Friday -	131	—	131— „
„ 19	Saturday -	251	—	251— „
	Total -	813	938	1751

* The Museum closes at 5 o'clock.

Total number of visitors since the period of free daily admission (12th May, 1858) to 19th March, 1859, —77,864.

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Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

350. To JAMES HOSKING, Oil Merchant, of Walworth Common, in the county of Surrey, for the invention of "Improvements in the manufacture of lamps."

On his petition, recorded in the Office of the Commissioners on the 8th day of February, 1859.

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498. To HENRY BERNOULLI BARLOW, of the city of Manchester, Patent Agent, for the invention of "Improvements in apparatus for condensing steam." — A communication from abroad, by François Daina, of Bergamo, in the empire of Austria.

On his petition, recorded in the Office of the Commissioners on the 24th day of February, 1859.

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546. To JOHN THOMSON CARTER, of Belfast, in the county of Antrim, Flax Spinner, for the invention of "Improvements in machinery for crushing, bruising, and preparing flax, hemp, and other fibrous materials requiring such treatment."

On his petition, recorded in the Office of the Commissioners on the 2nd day of March, 1859.

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609. To JAMES PILBROW, of Tottenham, in the county of Middlesex, Civil Engineer, for the invention of "Certain improvements in, or a new method or methods of obtaining and applying motive power, a modification of which is also applicable for pumping or forcing liquids, gases, and fluids, as also for measuring liquids, gases, and fluids."

611. To Sir WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the county of Northumberland, Civil Engineer, for the invention of "Improvements in rifled ordnance and its projectiles."

613. To JOHN ERWOOD, of No. 132, Goswell Street, Clerkenwell, in the county of Middlesex, Paper Stainer, and JOSEPH SKERTCHLY, of Ashby-de-la-Zouch, in the county of Leicester, Engineer, for the invention of "Improvements in the manufacture of glass, sand, and emery papers and cloths, and other similar articles used for like purposes."

615. To JOHN SCOTT RUSSELL, of Great George Street, Westminster, for the invention of "Improvements in building ships and other vessels."

617. To ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improved machinery for rolling horse shoe iron." — A communication from William Watkin Lewis, residing in the United States of America.

619. And to HENRY FISHER, of Birkenhead, in the county of Chester, Gentleman, for the invention of "Improvements in machinery or apparatus for cutting thin sheets of metal into strips, and for tempering sheets or strips of metal."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of March, 1859.

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621. To JAMES YUILL, of Glasgow, in the county of Lanark, North Britain, Saddlers' Ironmonger, for the invention of "Improvements in saddle trees."

623. And to HENRY LODGE, of Liverpool, in the county of Lancaster, Merchant, for the invention of "Improved means of protecting ships, batteries, and other constructions or buildings from the effects of projectiles of various kinds."

On both their petitions, recorded in the Office of the Commissioners on the 10th day of March, 1859.

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625. To JOHN COOPE HADDAN, of No. 4, Cannon Row, Westminster, Civil Engineer, for the invention of "Improvements in casting mortars and cannon."

627. To SAMUEL WHEATCROFT, of Brudenell Place, New North Road, county of Middlesex, Engineer, for the invention of "Improvements in the construction of goffering and rouching machines in order to render them self registering and self indicating."

629. And to FREDERICK CLARKE, of Norland Square, in the county of Middlesex, Gentleman, for the invention of "An improved mode of and apparatus for cutting, drying, and preparing peat to be used as fuel, or for other purposes for which it may be usefully employed."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of March, 1859.

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631. To JOHN CUNLIFFE and FREDERICK PIGGOTT, both of the city of Manchester, Manufacturers, and GEORGE MALLINSON, of Salford, in the county of Lancaster, Pattern Designer, for the invention of "Improvements in the manufacture of ornamental woven fabrics."

633. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the manufacture of shoes and other coverings for the feet."—A communication from abroad by Christopher Meyer, of New Brunswick.

635. To JOHN THOMAS CALOW, of Staveley, in the county of Derby, Joiner, Cabinet Maker, and Carriage Builder, for the invention of "A compound action in cage machinery, with the apparatus connected therewith, having a perforated shield for saving life and property in the event of a rope, band, or chain breaking, or the engine-man drawing the cage too high at coal or other shafts, where slides are applicable, which said invention is also applicable to hoisting or other lifting machines."

637. To JOHN COURT, of Brompton Row, in the county of Middlesex, Gas Fitter, for the invention of "An improvement in nibs for gas burners."

639. And to JAMES MACNAB, of the town and county of Linlithgow, North Britain, Designer, for the invention of "Improvements in telegraphing or signalling apparatus."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of March, 1859.

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641. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "An improved method of treating wool and other fibres in order to form threads."—A communication from Messrs. Tavernier and Vouillon, residing in Paris.

643. To THOMAS LIGHTFOOT, of Accrington, in the county of Lancaster, Calico Printer, for the invention of "Improvements in fixing colours on woven fabrics or fibrous materials."

645. To CHARLES HENRY HURST, of Victoria Terrace, Royal Road, Kennington Park, in the county of Surrey, for the invention of "An improved wrench or spanner."

647. And to THOMAS PATSTONE, of Birmingham, in the county of Warwick, Warehouse Clerk, for the invention of "Improvements in shades or glasses, for gas and other lamps, and in the supports of the said shades or glasses."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of March, 1859.

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649. To WALTER LANGTON, of No. 14, Wharf, Belvedere Road, Lambeth, in the county of Surrey, for the invention of "Improvements in the manufacture of keys and wood fastenings used in constructing railways."

651. To GEORGE BELL GALLOWAY, of Newcastle-on-Tyne, in the county of Northumberland, for the invention of "Improvements upon, and in connection with, his former patents, and in the manufacture of fuel, and working steam engines more economically."

653. And to WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in the apparatus of electric lamps or lights."—A communication from abroad by Victor Louis Marie Serrin, Civil Engineer, of Paris.

On their several petitions, recorded in the Office of the Commissioners on the 15th day of March, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

656. GEORGE SEYMOUR, of No. 6, Golden Square, Regent Street, in the county of Middlesex, Gentleman, praying for Letters Patent for the invention of "Improvements in making refined sugar, and making potash and soda from the residues,"—a communication from Hypolite Leplay, of Pont de Madron, near Toulouse, France, Sugar Manufacturer and Chymist,—was deposited and recorded in the Office of the Commissioners on the 16th day of March, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

NOTICE is also hereby given, that the petition of

667. JOSEPH HARRIS, jr., of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "A new and useful or improved carpet sweeper," was deposited and recorded in the Office of the Commissioners on the 16th day of March, 1859, and a complete specification accompanying such petition, was at the same time filed in the said office.

Notice of Application for Leave to enter a Disclaimer and Memorandum of Alteration.

In the Matter of Letters Patent, dated the 11th day of March, 1851, granted to William Galloway and John Galloway, of Manchester, in the county of Lancaster, Engineers, for the invention of "Improvements in steam engines and boilers."

Notice is hereby given, that the said WILLIAM GALLOWAY and JOHN GALLOWAY, have applied by

petition to Her Majesty's Attorney General, according to the statute in that case made and provided, for leave to enter a Disclaimer and Memorandum of Alteration of parts of the Specification of the said Letters Patent.—Dated this 19th March, 1859.

CHARLES COWPER,
20, Southampton Buildings, London,
Agent for the Petitioners.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

25th March, 1859.

2161. WILLIAM LANDER, of the city of Bristol, Engraver, for an invention of "Improvements in engraving and printing for the purpose of ornamenting china and earthenware."—Dated 27th September, 1858.

2169. JOHN MANNING, of Cambridge, Engineer, and THOMAS PAUL, of Houghton, in the county of Huntingdon, Miller, for an invention of "An improved stone staff to be used in dressing millstones."—Dated 29th September, 1858.

2173. THOMAS BRITT, of No. 9, St. Thomas Terrace, Church Street, Old Kent Road, Camberwell, in the county of Surrey, Engineer, for an invention of "An improvement in the propelling of steam boats."—Dated 30th September, 1858.

2216. MORITZ JACOBY and FREDERIC RAINFORD ENSOR, of Nottingham, for an invention of "Improvements in the manufacture of bobbin net or twist lace, and other fabrics made in twist-lace machines."—Dated 5th October, 1858.

2224. DANIEL SCATTERGOOD, of Nottingham, Machine Builder, and ROBERT WALKER SMITH, of Nottingham, Hosier, for an invention of "Improvements in machinery for the manufacture of looped fabrics."—Dated 6th October, 1858.

2242. THOMAS ROBERTS and JOHN DALE, of Manchester, in the county of Lancaster, Manufacturing Chemists, for an invention of "An improved process for obtaining salts of soda and other alkalies."—Dated 8th October, 1858.

2272. WILLIAM JOHNSTON, Merchant, and WILLIAM ROSS, Brassfounder, both of Glasgow, in the county of Lanark, North Britain, for an invention of "Improvements in water-closets and taps or valves."—Dated 12th October, 1858.

2280. ROBERT RIDLEY, of Low Wortley, in the county of York, Engineer, for an invention of "Improvements in safety cages for mine shafts."—Dated 13th October, 1858.

2306. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "Improvements in machinery for cutting the threads of wood screws."—A communication from New Nork, United States of America.—Dated 15th October, 1858.

2326. ALFRED WILKS DRAYSON, of Plumstead, in the county of Kent, Captain in the Royal Artillery, and CHARLES RICHARD BINNEY, of Woolwich, in the same county, Captain in the Royal Engineers, for an invention of "Improvements in submarine telegraphic cables."—Dated 18th October, 1858.

2338. JOHN GRANT, of Hyde Park Street, in the county of Middlesex, Captain late Royal Artillery, for an invention of "Improvements in constructing and arranging ovens suitable for baking bread."—Dated 19th October, 1858.

2343. ROBERT GRIFFITHS, of 69, Mornington Road, Regent's Park, London, Engineer, for an invention of "Improvements in baths."—Dated 20th October, 1858.

2365. CHARLES CLAY, of Walton Grange, Wakefield, in the county of York, for an invention of "Improvements in apparatus for harrowing, scarifying, and cultivating land."—Dated 22nd October, 1858.

2487. WILHELM ZIERVOGEL, of Hettstädt, near Eisleben, in the kingdom of Prussia, for an invention of "Improvements in apparatus for distilling products from bituminous coal schist, peat, and other like substances."—Dated 6th November, 1858.

224. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the city of London, for an invention of "Improved resin and resinous substances."—A communication from Mr. Jean Creuseton, residing at Paris, in the empire of France.—Dated 25th January, 1859.

325. JACQUES MARIE EDOUARD MASSON, of Rue des Fossés St. Thomas, Evreux, France, Gentleman, for an invention of "Improvements in apparatus to facilitate working under water."—Dated 4th Febrbary, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 23rd March*, 1859, *inclusive.*)

21st March.

677. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention of "Improvements in weaving by electric power, and in the machinery or apparatus employed therein."—A communication from Monsieur Louis Bolmida, Banker, President of the Electro Weaving Company, at Turin, in the kingdom of Sardinia.—Dated 22nd March, 1856.

680. HENRY BRIERLY, of Chorley, in the county of Lancaster, Machinist, for an invention of "Improvements in self-acting mules for spinning and doubling."—Dated 22nd March, 1856.

22nd March.

678. JOHN JONES and ALEXANDER CUNNINGHAM SHIRREFF, both of the city of Glasgow, in the county of Lanark, North Britain, Engineers, for an invention of "Improvements in the construction and application of rotatory motive-power engines and pumps."—Dated 22nd March, 1856.

708. George Hallen Cottam and Henry Richard Cottam, of Old St. Pancras Road, for an invention of "Improvements in the manufacture of chairs, bedsteads, and other articles to sit and recline on."—Dated 25th March, 1856.

720. Thomas Barnabas Daft, of the Irish Engineering Company, Seville Iron Works, Dublin, for an invention of "Improvements in the manufacture of metallic and other bedsteads and articles of metallic and other furniture."—Dated 26th March, 1856.

740. William Frederick Thomas, of St. Martin's-le-Grand, for an invention of "Improvements in sewing-machines."—Dated 27th March, 1856.

788. William Roberts, of Millwall, Poplar, in the county of Middlesex, for an invention of "Improvements in the construction of pumps."—Dated 1st April, 1856.

964. David Lloyd, of the Ebbw Vale Iron Works, South Wales, Engineer, for an invention of "Improvements in washing minerals, coal, and ores."—Dated 22nd April, 1856.

23rd March.

692. James Robertson, of Ardrossan, in the county of Ayr, North Britain, Engineer, for an invention of "Improvements in transmitting motive-power."—Dated 24th March, 1856.

705. William Foster, of Black Dike Mills, Bradford, in the county of York, Spinner and Manufacturer, for an invention of "Improvements in looms for weaving."—Dated 25th March, 1856.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents for Inventions which were Delivered, Prolonged, and became Void during the Month of November, 1858.†

(*Communicated by the Austrian Government.*)

1. Patents Delivered.

1. Leopold Herling, of Vienna, for "A truss for inguinal ruptures, scrotal hernias, and combined inguinal and crural ruptures."—1 year.—(Secret.)—Dated 1st November, 1858.

2. Dr. Sigmund Reis, for "A surgical safety apparatus for the wounded."—2 years.—(Public.)—Dated 1st November, 1858.

3. Paul Jacovenco, of Odessa, represented by Baron von Sonnethal, Vienna, for "Coating wire gauze with gutta-percha, or any other gum or varnish, so as to obtain a solid and impervious material, being applicable as a substitute for leather."—1 year.—(Secret.)—Dated 1st November, 1858.

4. Carl Paul Haumann, of Heidelberg, represented by Friederich Aschermann, Vienna, for "Improvements in the construction of wooden window frames, whereby they are made perfectly water-tight"—1 year.—(Public.)—Dated 1st November, 1858.

5. Friedrich, Frank, and Joh. Scholz, of Ottakring, near Vienna, for "A vice opening to any width and whose lower end is by two thirds shorter than the common vices."—1 year.—(Secret.)—Dated 1st November, 1858.

6. Joseph Kucera, of Plan, Bohemia, for "Manufacture of hydraulic lime and cement from indigenous raw substances."—2 years.—(Secret.)—Dated 1st November 1858.

7. Hermann Steinmann, of Vienna, for "Improvements in the construction of manometers of steam-engines."—1 year.—(Secret.)—Dated 7th November, 1858.

8. Eduard Kutzer, of Dürnkrut, Lower Austria, for "A machine for sowing beetroot seed at equal distances, and heaping the soil on the same."—1 year.—(Public.)—Dated 7th November, 1858.

9. Karl Kauffmann, of Vienna, for "A peculiar construction of cylinders of lamps for burning solar oil-gas, whereby a great saving of oil and a better light are obtained."—1 year.—(Secret.)—Dated 7th November, 1858.

10. François Chanoit and Frederic Catelineau, of Bittschwiller, France, (Upper Rhine,) represented by Eduard Schmidt, Vienna, for "A self-acting boring pump."—2 years.—(Secret.)—Dated 8th November, 1858.—(French Patent, 10th May 1858.)

11. Alois Görlich, of Vienna, for "Closed apparatus for cooling beer."—1 year.—(Secret.)—Dated 8th November, 1858.

12. Eduard Schmidt, of Vienna, for "Improvements in valve-gears of steam-engines."—3 years.—(Secret.)—Dated 8th November, 1858.

13. Alois Reitzi, of Wiener-Neustadt, for "An apparatus for chimney pots whereby the action of wind or the sun is rendered harmless."—1 year.—(Public.)—Dated 8th November, 1858.

14. Alfred Fauvin Jaloureau, of Paris, represented by Georg Märkl, Vienna, for "A peculiar process for making impervious pipes for conveying gas, water, and for laying wires of submarine telegraph."—1 year.—(Public.)—Dated 8th November, 1858.

15. Ludwig Joh. Anselm Ernst Trotry-Latouche, of Paris, represented by Georg Märkl, Vienna, for "A gig-mill."—1 year.—(Public.)—Dated 8th November, 1858.

16. Bernhard Jacob and Dr. Leopold Friedrich Cohn, of Pest, for "Improvements in the

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

manufacture of sets of teeth without springs."—2 years.—(Secret.)—Dated 8th November, 1858.

17. Eduard Clarence Shepard, of London, represented by Anton Schneider, Vienna, for "Improvements in electro-magnetic machines for combining circulation and for obtaining and concentrating electrical currents or powers, whereby the same are made to act in their various applications more advantageously than before."—5 years. (Public.)—Dated 9th November, 1858.

18. Bland Wilhelm Croker, of Vienna, for "Improvements in manufacturing domestic utensils, vessels, and other utensils used for electrical processes and manufacturing purposes, from carburetted or other convenient substances, whereby they are rendered more durable and may be applied to a greater variety of purposes."—2 years.—(Public.)—Dated 9th November, 1858.

19. Angelus Valerio, of Triest, for "An improved machine for obtaining cocoa and chocolate, and by means of which two persons may produce nearly 600 pounds of chocolate within 10 or 12 hours."—10 years.—(Secret.)—Dated 9th November, 1858.

20. R. Kormos and Stephan Czeller, of Hatvan. Hungary, for "A peculiar lighting substance called 'economical gas,' which is inodorous, smokeless, and inexplosive."—5 years.—(Secret.)—Dated 9th November, 1858.

21. Rosalia Gross, of Brünn, for "A cosmetic substance, called 'Indian vegetable oil for the hair.'"—1 year.—(Secret.)—Dated 9th November, 1858.

22. Robert Mankowsky, of Vienna, for "Improvements in coke-kilns."—1 year.—(Public.)—Dated 9th November, 1858.

23. Leopold Stern, of Ofen, for "Improvements in all kinds of dresses of men and women, by applying thereat a peculiar elastic drawing hem."—1 year.—(Secret.)—Dated 10th November, 1858.

24. Carl Felix Sebille, of Nantes, represented by Georg Märkl, Vienna, for "A peculiar process for the manufacture of pipes which are tinned inside."—1 year.—(Public.)—Dated 10th November, 1858.

25. Ignaz Freund, of Alt-Ofen, for "Improvements in the treatment of resist paste used in indigo-dyeing and printing."—1 year.—(Secret.)—Dated 10th November, 1858.

26. Angelo Montagnoli, of Cittadella, for "A lighthouse lighted by means of camphine."—2 years.—(Public.)—Dated 10th November, 1858.

27. August Klein, of Vienna, for "A combined portemonnaie and pocket-book."—1 year.—(Public.)—Dated 10th November, 1858.

28. Theresia Höltzler, of Gran, Hungary, for "Improvements in protecting foot-coverings for men and ladies from the action of perspiration and water."—1 year.—(Secret.)—Dated 10th November, 1858.

29. August Lovrek, of Vienna, for "Improvements in the construction of furnaces heated by coke and coal, as patented formerly by Friederich Ghode."—2 years.—(Secret.)—Dated 10th November, 1858.

30. Louis Böhm, of Vienna, for "Improvements in the galvanoplastic process, whereby electricity may be distributed so as to obtain any objects of art, such as figures, busts, &c., of any size and bulk from one piece without soldering."—1 year.—(Secret.)—Dated 10th November, 1858.

31. Friedrich Kinn, of Vienna, for "Improvements in his malt-kiln, whereby the staves or rods of the same are made in a conical shape, so as to make the grate narrow above and wide below, for the purpose of facilitating ventilation, economizing time and fuel and the falling through of the germ, and of preventing the obstruction of said grate."—1 year.—(Public.)—Dated 12th November, 1858.

32. Johann Gustav Larsonnier, of Paris, and Hyacinth Aug. Blanche, of Puteaux, France, represented by Georg Märkl, Vienna, for "Improvements in hand-printing by means of blocks."—1 year.—(Public.)—Dated 12th November, 1858.

33. Franz Weber, of Dresden, represented by Dr. Höchstmann, Vienna, for "A peculiar construction of ice-safes for preserving eatables, beverages and other objects."—4 years.—(Secret.)—Dated 12th November, 1858.—(Saxon Patent, 24th July, 1858.)

34. Friedrich Rödiger, of Vienna, for "Billiard-tables which can be taken to pieces."—1 year.—(Public.)—Dated 13th November, 1858.

35. Ignaz Laub, of Ofen, for "A peculiar apparatus for removing the fusel oil from spirits on a small scale."—2 years.—(Secret.)—Dated 13th November, 1858.

36. Bernhard Fischer, of Neusatz, Servia, for "Improvements in men's dresses, whereby the parts near the buttons and collars are made more durable."—1 year.—(Secret.)—Dated 13th November, 1858.

37. Dr. Heinrich Ziegler, of Winterthur, Switzerland, represented by Aug. Schmidt, Vienna, for "Improvements in self-acting lubricators of journals."—4 years.—(Secret.)—Dated 13th November, 1858.—(Baden Patent, 28th July, 1858.)

38. Zacharias Pasta, of Milan, for "A peculiar construction of inodorous night stools."—1 year.—(Secret.)—Dated 13th November, 1858.

39. Franz Plischke, of Brünn, for "Improvements in the manufacture of bags from raw silk, cotton, wool, and thread, for pressing beetroot and obtaining the juice thereof."—2 years.—(Secret.)—Dated 13th November, 1858.

40. Theodore Schultz, of Vienna, for "A peculiar construction of pistons of steam engines, locomotives, air and water pumps, by applying a spiral thread on their periphery."—1 year.—(Public)—Dated 13th November, 1858.

41. Bontin, Poinsont, and Co., and Edmund Victor Fresson, of Grenelle, near Paris, represented by Georg Märkl, of Vienna, for "A portable furnace for charring wood and other fuel."—1 year.—(Public.)—Dated 13th November, 1858.

42. Ferdinand Hallmann, of Vienna, for "An improved construction of iron safes and chests."—1 year.—(Public.)—Dated 14th November, 1858.

43. Georg Scott, of Manchester, represented by Georg Märkl, Vienna, for "Improvements in steam generators."—1 year.—(Public.)—Dated 14th November, 1858.

44. Franz Kas, of Prague, for "Obtaining millstones of foreign crystal quartz."—1 year.—(Public.)—Dated 14th November, 1858.

45. Marie Hardon, of Vienna, for "An easy and safe method of obtaining patterns for cutting ladies' dresses."—1 year.—(Secret.)—Dated 14th November, 1858.

46. Heinrich Johann Distin, of London, represented by Georg Märkl, Vienna, for "A peculiar construction of cornets-à-piston and other wind instruments."—5 years.—(Public).—Dated 16th November, 1855.

47. August Lenz, of Vienna, for "A peculiar, simple, and economical process for obtaining aluminium, and at the same time chloride of mercury."—2 years.—(Public.)—Dated 16th November, 1858.

48. Johann Christoph Endris, of Vienna, for "Improvements in breech-loading fire-arms."—2 years.—(Secret.)—Dated 16th November, 1858.

49. Nikolaus Mayes, of Raab, for "A peculiar construction of conical chimney flues, with cowls for preventing the issue of sparks from locomotives, whereby the working power of engines is increased, and a great saving of fuel is obtained."—1 year.—(Public.)—Dated 16th November, 1858.

50. Carl Herxel, of Laibach, for "A peculiar animal substance called 'cogrü,' for clarifying liquids, and especially appl cable to coffee, wine, and vinegar."—1 year.—(Public.)—Datcd 16th November, 1858.

51. Paul Morin and Co., of Nanterre, France, represented by Cornelius Kasper, Vienna, for "A process for reducing aluminium."—1 year.—(Secret.)—Dated 16th November, 1858.

52. Joseph Langer, of Hussth, for "Improvements in his construction of iron suspension bridges by means of beams of an equal power of resistance, whereby they may be applied to great spans."—1 year.—(Public.)—Dated 16th November, 1858.

53. Alfons Dietz, of Vienna, for "Lessening concussions in machines which are worked suddenly either by arms or excentrical or reverting catches by inserting elastic substances between any parts of the motor."—1 year.—(Secret.)—Dated 19th November, 1858.

54. Georg Hartl, of Vienna, for "Improvements in converting vegetable and animal oils and fats into sebacic acids and glycerine by means of water-steam."—1 year.—(Secret.)—Dated 19th November, 1858.

55. Emanuel Strelisker, of Debreczin, Hungary, for "Manufacturing so-called 'American household soap' from all kinds of fats, and by applying a new substance thereto."—1 year.—(Secret.)—Dated 19th November, 1858.

56. David A. Hopkins, of South Bergen, United States, represented by Christoph. Endris, Vienna, for "Improvements in journal-boxes."—2 years.—(Secret.)—Dated 19th November, 1858.—(American Patent, 23rd February, 1858.)

57. Abraham Tischler, of Vienna, for "An expeditious mode of painting houses, &c."—1 year.—(Secret.)—Dated 21st November, 1858.

58. G. Pfannkuche and Scheider, of Vienna, for "Improvements in his iron safes and chests, as patented 7th January, 1858."—1 year.—(Public.)—Dated 21st November, 1858.

59. Wilhelm Kraft, of Vienna, for "A slide apparatus of wood, metal, or ivory with or without a paper scale, for reducing the old into the new monetary system."—1 year.—(Secret.)—Dated 22nd November, 1858.

60. August Lenz, of Vienna, for "Improvements in processes for obtaining aluminium."—2 years.—(Public.)—Dated 22nd November, 1858.

61. Aug. Lenz, of Vienna, for "Improvements in pressing out fluids from organic substances."—2 years.—(Public.)—Dated 22nd November, 1858.

62. Dr. Gustav Bischof, of Bonn, represented by Dr. Kern, Vienna, for "A peculiar process for extracting copper from sulphurous and acid copper-ores without using acids."—5 years.—(Secret.)—Dated 22nd November, 1858.

63. Friedrich Rödiger, of Vienna, for "An apparatus for lubricating axles, pivots, &c. of fixed machines, locomotives, tenders, railway and other carriages."—1 year.—(Public.)—Dated 22nd November, 1858.

64. S. Spiller, of Vienna, for "An apparatus for preserving leeches."—1 year.—(Secret.)—Dated 22nd November, 1858.

65. Nikolaus Thieriet, of Verona, for "A brick machine."—5 years.—(Secret.)—Dated 22nd November, 1858.

66. Heinrich Ozouf, of Paris, represented by Georg Märkl, Vienna, for "An apparatus for converting the lime used in clarifying beetroot and cane sugar into carbonate, and re-applying the same to the manufacture of sugar."—1 year.—(Public.)—Dated 22nd November, 1858.

67. Arnold Felix Delacroix, of Chartres, France, represented by Georg Märkl, Vienna, for "Improvements in locomotives."—1 year.—(Public.)—Dated 22nd November, 1858.

68. Joseph and Vincenz Lancia, of Turin, represented by Evarist Medea, Milan, for "A machine for filling sausages."—1 year.—(Public.)—Dated 22nd November, 1858.—(Sardinian Patent, 30th June, 1858.)

69. Ernest Neumann, of Vienna, for "A kind of match-boxes, which may be used as firing apparatus."—1 year.—(Secret.)—Dated 22nd November, 1858.

70. Wilhelm Felix Aroux, of Montaure, France, represented by Baron von Sonnenthal, Vienna, for "Improvements in his patent sowing machine, whereby it may be enlarged to any size, and used in a forward and backward direction, said improved parts being also applicable to other sowing machines."—1 year.—(Secret.)—Dated 22nd November, 1858.

71. Carl Brunn von Neegoard, of Jarsdorf, Holstein, represented by Wilhelm Skallitzky, Vienna, for "An improved sowing machine for distributing the seed at an equal distance and

depth."—1 year.—(Secret.)—Dated 22nd November, 1858.

72. Ignay Michael Firnstahl, of Vienna, for "Improvements in his Patent Decimal double printing machine."—1 year.—(Secret.)—Dated 22nd November, 1858.

73. August Ferdinand Sieker, of Grossenhain, Saxony, represented by Dr. Ed. Wiedenfeld, Vienna, for "A peculiar construction of power-looms for weaving all kinds of fabrics."—1 year.—(Secret.)—Dated 22nd November, 1858.—(Saxon Patent, 9th April, 1858.)

74. Johanna Miller, of London, represented by Georg Märkl, Vienna, for "A peculiar machine for baking bread."—3 years.—(Public.)—Dated 22nd November, 1858.

75. Eduard Bolland, of Vienna, for "Improvements in machines for sewing leather, cloth, and similar substances."—1 year.—(Secret.)—Dated 23rd November, 1858.

76. Mathias Lenzbauer, of Vienna, for "A peculiar construction of inodorous water-closets."—1 year.—(Secret.)—Dated 23rd November, 1858.

77. J. C. Endris, of Vienna, for "Improvements in apparatus for compressing and expanding gaseous fluids."—2 years.—(Secret.)—Dated 27th November, 1858.

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2. Patents Prolonged.

1. L. J. Fontaine-Moreau, for "A system of preserving seeds and grain in closed places or pits."—2nd year.—(Public.)—Dated 8th November, 1857.

2. Juda Wiltschek, for "A liquid for cleaning garments and linen."—2nd year.—(Secret.)—Dated 15th November, 1857.

3. Josef Hörmer, for "An apparatus for washing and mangling linen."—3rd year.—(Secret.)—Dated 25th October, 1856.

4. Amadeus Theodor Leder and Hermann Alexander Leder, for "An improved process for obtaining articles of perfumery by the warm process."—3rd–5th years.—(Secret.)—Dated 25th October, 1856.

5. Leopold Nagl and Carl König, for "Converting walking sticks into torches by means of a certain liquid."—2nd year.—(Secret.)—Dated 21st October, 1857.

6. Johann Fent, for "So-called 'Keratin-pomatum.'"—2nd year.—(Secret.)—Dated 21st October, 1857.

7. Alois Edelmann, for "Manufacture of carpets from selvages."—6th year.—(Secret.)—Dated 6th November, 1853.

8. Wilhelm Pollak, for "Disacidifying seed-oil."—6th year.—(Secret.)—Dated 18th November, 1853.

9. Johann Zeh, for "Manufacturing grease called 'Stone-grease' for lubricating carriages and machines."—3rd year.—(Secret.)—Dated 9th November, 1856.

10. Paul Trangott Meissner, for "Improvements in heating apparatus for railway carriages, vessels, &c."—3rd and 4th years.—(Secret.)—Dated 16th November, 1856.

11. Eduard Adolph Joseph Estivant, for "Improvements in moulds for casting metal pipes."—2nd year.—(Secret.)—Dated 1st November, 1857.

12. Count Peter Hermann Fontaine Moreau (Frederic Pothenot and Co., assignees), for "Spheroidical bodies for accelerating rotation in machines."—2nd year.—(Secret.)—Dated 7th November, 1857.

13. Joh. Hartinger and Franz Fiala, for "A machine for printing stuffs for garments and furniture."—2nd year.—(Secret.)—Dated 8th November, 1857.

14. John Chrisholm, for "A process for disinfecting cesspools, drains, &c."—2nd year.—(Secret.)—Dated 22nd September, 1858.

15. Leopold Köppel (Georg Donner, assignee), for "An improved stenographic apparatus for directories."—7th year.—(Secret.)—Dated 21st October, 1852.

16. Johann Haas, for "An apparatus for rendering windows and ovens air and water tight."—7th year.—(Secret.)—Dated 24th October, 1852.

17. Johann Nejedly, for "Improvements in the manufacture of arsenical colours of verdigris."—8th year.—(Secret.)—Dated 17th December, 1851.

18. Joseph Siegl, for "So-called 'impervious playing cards which may be washed.'"—14th year.—(Public.)—Dated 27th October, 1845.

19. Friedrich Paget and Joh. Baptist Hammerschmidt, for "Improvements in the construction of water-pipes, and the gas-tight closing of closets."—6th year.—(Secret.)—Dated 29th October, 1853.

20. Franz Jonasch, for "An apparatus, called 'Iris case,' for painting."—4th year.—(Public.)—Dated 3rd November, 1855.

21. Hersch Klager, for "Manufacture of mineral oil for illuminating purposes."—2nd year.—(Secret.)—Dated 8th November, 1857.

22. Heinrich Gustav Alexander Guillaume, Achilles Nepomuk Grenier, and Carl Goschler, for "A system of railway chairs of rolled iron."—2nd year.—(Public.)—Dated 24th December, 1857.

23. Emanuel Fleischmann (Joseph Roth, assignee), for "Improvements in men's dresses, whereby buttons are protected from tearing."—2nd and 3rd years.—(Secret.)—Dated 10th July, 1858.

24. Wilhelm Köhler and Adolph Reach, for "Improvements in presses for obtaining blanc-stamps."—2nd year.—(Secret.)—Dated 16th November, 1857.

25. Elias Horowitz, for "Improvements in stoves and kitchen ranges of sheet-iron, and other kitchen vessels of sheet-iron, copper, brass, zink, &c."—2nd year.—(Secret.—Dated 21st November, 1857.

26. Alois Winkler, for "Obtaining inscriptions in gold oil colours on sheet-iron by means of printing-presses."—2nd year.—(Secret.)—Dated 27th November, 1857.

27. Victor Thumb, for "A mechanical templet for weaving cloth and other fabrics."—3rd year.—(Secret.)—Dated 16th November, 1856.

28. Jacob Franz Heinrich Hemberger, for "Improvements in applying caoutchouc and gutta-percha to the construction of buffers, and springs for suspension, traction, and buffers."—7th year.—(Secret.)—Dated 5th November, 1852.

29. Johann Grimm, for "Making shingles by machinery."—4th year.—(Secret.)—Dated 3rd November, 1855.

30. Johann Baptist Scheder and Julius Galecki, for "Iron spring bed-bottoms."—5th year.—(Secret.)—Dated 15th January, 1855.

31. Carl and Anton Köhler, for "A vegetable essence for the hair."—3rd year.—(Secret.)— Dated 11th November, 1856.

32. Moriz Unterwalder, for "An impervious elastic composition for coating woven fabrics."—3rd and 4th years.—(Secret.)—Dated 29th November, 1856.

33. David Mandel and Jonas Mayer, for "Improvements in the construction of furniture."—2nd year.—(Secret.)—Dated 17th November, 1857.

34. William O. Grover and William E. Baker, for "Improvements in sewing machines."—6th year.—(Secret.)—Dated 18th November, 1853.

35. Jean Paul Fischer, for "A peculiar construction of dwelling houses, with peculiar principals and lintels."—4th year.—(Secret.)—Dated 13th November, 1855.

36. Wenzel Worechowsky, for "Improvements in centimal weighing-bridges."—4th year.—(Secret.)—Dated 12th February, 1856.

37. Aeneas Quinterio and David Nava, for "A process for obtaining volatile oils from resin and coal-tar."—3rd year.—(Secret.)—Dated 7th November, 1856.

38. Carl and Anton Köhler, for "Pomatum-oil."—3rd year.—(Secret.)—Dated 11th November 1856.

39. Joseph Roy, for "Improvements in double-action cylinder lever pumps."—3rd year.—(Secret.)—Dated 27th November, 1856.

40. Alfred Louis Stanislaus Chenot, for "Improvements in processes and apparatus for reducing oxides of metals."—2nd year.—(Public.)—Dated 26th December, 1857.

3. Patents which have become Void.*

1. Andreas Adolph Kirchheim, for "A compressed-air apparatus for raising liquids, and especially beer."—Dated 1st August, 1857; expired 1st August, 1858.

2. Anton Ludwig Warnery, for "A process and apparatus, called 'Slubbing-lapping apparatus,' for preparing the waste of silk, cotton, wool, flax, hemp, and other textile substances for spinning."—Dated 15th August, 1857; expired 15th August, 1858.

3. Innocenz von Almasy, for "Improvements in gas-reservoirs."—Dated 7th August, 1857; expired 7th August, 1858.

4. Franz. Raschanek, for "Using a new substance for building carriages."—Dated 3rd June, 1854; expired 3rd June, 1858.

5. Ignaz Michael Firnstahl, for "A so-called 'Decimal double printing machine.'"—Dated 6th August, 1856; expired 6th August, 1858.

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.



PRUSSIA.*

List of Patents for Invention Delivered on the 31st January and during the month of February, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. V. Daelen, of Hörde, near Dortmund, for "An hydraulic centrifugal blast."—5 years.—Dated 31st January, 1859.

2. J. H. F. Prillwitz, of Berlin, for an imported invention of "A machine for making horse-shoes."—6 years.—Dated 1st February, 1859.

3. J. H. F. Prillwitz, of Berlin, for an imported invention of "Mechanical apparatus applicable to looms for inserting various colours."—5 years.—Dated 21st February, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

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Notices to Proceed.

NOTICE is hereby given, that

2563. BARTOLOMMEO PREDAVALLE, of Hart Street, in the county of Middlesex, Civil Engineer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in producing or obtaining motive power."

As set forth in his petition, recorded in the said office on the 15th day of November, 1858.

2599. And CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in assorting and separating combed fibres, and in machinery for that purpose."—A communication from M. Ziegler, residing at Guebwiller, in France.

2603. And HENRY STOTT, of Greetland, near Halifax, in the county of York, Cotton Warp Manufacturer, has given the like notice in respect of the invention of "Improvements in warping mills, or apparatus connected therewith."

2608. And ELISHA THOMAS ARCHER, of Bridgefield House, Wandsworth, in the county of Surrey, Paper Manufacturer, has given the like notice in respect of the invention of "Improvements in hat ventilators, and for appliances connected therewith."

As set forth in their respective petitions, all recorded in the said office on the 18th day of November, 1858.

2617. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "An improved apparatus for condensing and cooling vapours and liquids."—A communication from Louis Fialon, residing at Lyons, in the empire of France.

2619. And WILLIAM RAMSCAR and JOHN GRAY SCOTT, of the city of Manchester, in the county of Lancaster, have given the like notice in respect of the invention of "Improvements in fire arms."

2621. And HENRY BAILEY, of 35, Golden Square, in the county of Middlesex, Warehouseman, has given the like notice in respect of the invention of "Improvements in heating razors."

As set forth in their respective petitions, all recorded in the said office on the 19th day of November, 1858.

2636. And CHARLES TOMLISON, of Worcester Street, Wolverhampton, in the county of Stafford, Accountant, has given the like notice in respect of the invention of "Improvements in stop taps or valves."

2637. And CHARLES CUIT, of Paris, in the empire of France, Manufacturer, has given the like notice in respect of the invention of "Improvements in railway breaks."

2638. And WILLIAM LEA, of the firm of William and John Lea, of Wolverhampton, in the county of Stafford, Brass Founders and Cock Makers, has given the like notice in respect of the invention of "A method of lubricating cocks and taps."

2639. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of dolls, statuettes, figures of animals, and others, and toys."—A communication from A. F. E. Robert, residing in Paris.

2640. And HENRY JORDAN, of Liverpool, in the county of Lancaster, Ship-builder, has given the like notice in respect of the invention of "Improvements applicable to navigable vessels."

2641. And DANIEL EVANS, of Chobham Cottages, New Town Stratford, in the county of Essex, has given the like notice in respect of the invention of "Improvements in tubular steam boilers and fireplaces, or furnaces used therewith."

2645. And Henry Boden, of Crescent Cottage, Cambridge Heath, Hackney, in the county of Middlesex, Silk Manufacturer, and Thomas Cooper, of Ann's Place, Hackney Road, in the same county, Machinist, have given the like notice in respect of the invention of "Improvements in plaiting or braiding machinery."

2646. And Heman Gardiner, of the city of New York, in the United States of America, Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in the compound axle hub and wheel for railroad cars."

As set forth in their respective petitions, all recorded in the said office on the 20th day of November, 1858.

2649. And Francois Alphonse Theroulde, of No. 67, Rue Caumartin, Paris, has given the like notice in respect of the invention of "Improvements in obtaining salts and products from the ashes of marine plants."

As set forth in his petition, recorded in the said office on the 22nd day of November, 1858.

2655. And William Henry Dawes, of Bromford Ironworks, West Bromwich, in the county of Stafford, Iron Master, has given the like notice in respect of the invention of "An improvement in forge hammers and in the anvils used with forge hammers and squeezers."

As set forth in his petition, recorded in the said office on the 23rd day of November, 1858.

2663. And Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "An improvement in cigar cases."—A communication from G. Scriba, residing in Paris.

2668. And Charles Peterson, of Lowcliffe Lodge, Isle of Wight, in the county of Hants, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of paper cartridges, and in paper applicable for waterproof purposes."

2669. And James Syson Nibbs, of the Manor of Aston, in the county of Warwick, Lamp and Chandelier Manufacturer, has given the like notice in respect of the invention of "Improvements in lighting, heating, and ventilating."

As set forth in their respective petitions, all recorded in the said office on the 24th day of November, 1858.

2683. And Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new sort of drawers or trowsers for ladies or children."—A communication from Celina Gobert.

2691. And John Billington Booth, of Preston, in the county of Lancaster, Spindle Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing spinning, doubling, and winding cotton and other fibrous materials."

2692. And William Richards, of the Gas Works, Barcelona, in the kingdom of Spain, Engineer, but now of Harpur Street, Red Lion Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the construction of gas meters."

2693. And Price Griffiths and John Brennand, both of Burnley, in the county of Lancaster, Engineers, &c., have given the like notice in respect of the invention of "Improvements in lubricators for introducing lubricating matter into steam cylinders, and other chambers or parts under pressure."

As set forth in their respective petitions, all recorded in the said office on the 26th day of November, 1858.

2710. And George Collier and William Noble, both of Halifax, in the county of York, have given the like notice in respect of the invention of "Improvements in means or apparatus for the manufacture of spokes for carriage wheels, which improvements are also applicable to the cutting of wood for other purposes."

2713. And William Parsons, of Bitterme, near Southampton, in the county of Hants, Bricklayer, has given the like notice in respect of the invention of "Doing away with the smell arising from the melting fat, tallow, &c., and also for an improvement in stirring and straining the same."

As set forth in their respective petitions, both recorded in the said office on the 29th day of November, 1858.

2736. And Robert Henry Bow, of Edinburgh, in the county of Mid-Lothian, North Britain, Civil Engineer, has given the like notice in respect of the invention of "Improvements in railway chairs and fastenings."

As set forth in his petition, recorded in the said office on the 1st day of December, 1858.

2760. And George Spiller, of No. 15, Upper Southwick Street, Hyde Park, in the county of Middlesex, a Lieutenant-Colonel in Her Majesty's Royal Artillery, has given the like notice in respect of the invention of "Improvements in knapsacks for military and other purposes."

As set forth in his petition, recorded in the said office on the 2nd day of December, 1858.

2764. And George Edward Noone, of No. 28, Hodson Street, Frances Street, Newington Butts, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Certain improvements in machinery for generating gas from coal."

As set forth in his petition, recorded in the said office on the 3rd day of December, 1858.

2781. And Henry Thomas Yates, of Hounds Gate, Nottingham, has given the like notice in respect of the invention of "Improvements in the manufacture of boards or sheets when wood sawdust is used."

2784. And William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Certain improvements in grain and grass harvesting machines."—A communication.

As set forth in their respective petitions, both recorded in the said office on the 4th day of December, 1858.

2825. And John Elder, of Glasgow, Engineer, has given the like notice in respect of the invention of "Improvements in paddle-wheels."

As set forth in his petition, recorded in the said office on the 9th day of December, 1858.

2875. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improved agricultural implements."—A communication from Louis Jacques Château, Public Notary, of Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 15th day of December, 1858.

2891. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer, Patent Agent, has given the like notice in respect of the invention of "Improvements in submarine electric telegraph cables or conductors."—A communication from Felix Marie Baudouin, of Rue des Recollets, Paris.

As set forth in his petition, recorded in the said office on the 16th day of December, 1858.

2914. And William Elbert Dando, of the state of Pennsylvania, in the United States of America, at present residing in Manchester, in the county of Lancaster, Clerk, has given the like notice in respect of the invention of "Improvements in apparatus for lowering boats from ships or vessels, and also for raising the same as required."

As set forth in his petition, recorded in the said office on the 21st day of December, 1858.

209. And William Collett Homersham, of Adelphi Terrace, Strand, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in floating 'gridirons' or stages for repairing ships or other vessels."

As set forth in his petition, recorded in the said office on the 24th day of January, 1859.

303. And Isaac Clements, of Birmingham, in the county of Warwick, Warehouse Clerk, has given the like notice in respect of the invention of "A new or improved method of manufacturing curtain rings."

As set forth in his petition, recorded in the said office on the 2nd day of February, 1859.

435. And John James Russell, of Wednesbury, in the county of Stafford, has given the like notice in respect of the invention of "Improvements in machinery used for heating and welding the edges of the plates used in the manufacture of cylinders and other articles."

437. And Jules Seguin, Doctor of Medicine, of 4, Grande Rue de Gravelle, à St. Maurice (Seine), France, has given the like notice in respect of the invention of "Improvements relating to the employment of moving power arising from the tides, and its application to manufacturing, agricultural, and other purposes."

As set forth in their respective petitions, both recorded in the said office on the 16th day of February, 1859.

526. And James Howden, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cutting, shaping, punching, and compressing metals."

As set forth in his petition, recorded in the said office on the 28th day of February, 1859.

544. And John Pile, of West Hartlepool, in the county of Durham, Shipbuilder, has given the like notice in respect of the invention of "Improvements in the construction of floating docks."

As set forth in his petition, recorded in the said office on the 1st day of March, 1859.

559. And James Newcomb, of the city of Bristol, Engineer, and Joseph Gwyre Lovell, of the city of Bristol, Merchant, have given the like notice in respect of the invention of "Improvements in obtaining and applying motive power especially adapted amongst other purposes to the propelling of ships and vessels."

As set forth in their petition, recorded in the said office on the 2nd day of March, 1859.

568. And William Score, of No. 9, Osborne Terrace, Clapham Road, in the county of Surrey, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of soap."

As set forth in his petition, recorded in the said office on the 3rd day of March, 1859.

635. And John Thomas Calow, of Staveley, in the county of Derby, Joiner, Cabinet-maker, and Carriage Builder, has given the like notice in respect of the invention of "A compound action in cage machinery, with the apparatus connected therewith, having a perforated shield for saving life and property in the event of a rope, band, or chain breaking, or the engine-man drawing the cage too high at coal or other shafts where slides are applicable, which said invention is also applicable to hoisting or other lifting machines."

As set forth in his petition, recorded in the said office on the 12th day of March, 1859.

656. And George Seymour, of No. 6, Golden Square, Regent Street, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in making refined sugar, and making potash and soda from the residues."—A communication from Hypolite Leplay, of Pont de Madron, near Toulouse, France, Sugar Manufacturer and Chymist.

667. And Joseph Harris, junr., of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "A new and useful or improved carpet sweeper."

As set forth in their respective petitions, both recorded in the said office on the 16th day of March, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

29th March, 1859.

2174. Joseph Wright, Engineer, of Birmingham, in the county of Warwick, for an invention of "Certain improvements in the mode of arranging and moving fire-bars for locomotive, puddling, and other furnaces."—Dated 30th September, 1858.

2192. Joseph Rogers, of No. 9, Queen Square, Bartholomew Close, in the city of London, Rope Maker, for an invention of "Improvements in submarine electric telegraph cables."—Dated 2nd October, 1858.

2203. Louis A. Normandy, junr., of 67, Judd Street, London, in the county of Middlesex, for an invention of "Improvements in the manufacture of sulphate of copper."—A communication from a Foreigner now residing abroad.—Dated 4th October, 1858.

2269. John Field Swinburn, of Birmingham, in the county of Warwick, Gun Manufacturer, for an invention of "Improvements in fire-arms."—Dated 12th October, 1858.

2271. Thomas Cotterill Shaw, of Hanley, in the county of Stafford, Architect and Surveyor, and Frederic Henshaw Cooper, of Hanley aforesaid, Ironmonger, for an invention of "A new or improved construction and mode of working engines by the agency of air or gases, in conjunction with electricity for obtaining or producing motive power."—Dated 12th October, 1858.

2291. Thomas Ingram, of Bradford, in the county of York, Foreman, for an invention of "Improvements in means or apparatus for signalling between the parts of a train of carriages."—Dated 14th October, 1858.

2308. Laurent Marcus, of the Province of Algiers, in Africa, now in Paris, Gentleman, for an invention of "An improved reaping machine."—Dated 16th October, 1858.

493. Emile Alcan, of 4, Coleman Street Buildings, in the city of London, Merchant, for an invention of "An improved method of treating or preparing materials to be manufactured into paper, applicable to lie-washings in general."—A communication from a Person residing abroad.—Dated 8th November, 1858.

2809. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved apparatus for ascertaining and registering the work of certain kinds of lever balances."—A communication from a Foreigner residing abroad.—Dated 7th December, 1858.

221. William Tasker the younger, of the firm of William Tasker and Sons, of Waterloo Iron Works, near Andover, in the county of Hants, Engineer, for an invention of "Improvements in ploughs." Dated 24th January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 26th March*, 1859, *inclusive.*)

24th March.

739. Constant Jouffroy Duméry, of Paris, in the empire of France, for an invention of "Improvements in smoke preventing apparatus."—Dated 27th March, 1856.

765. Adolphe Guido, of Versailles, in the empire of France, Chemist, for an invention of "Improvements in cleansing, washing, scouring wool and woollen fabrics and yarns."—Dated 29th March, 1856.

809. Frederick William Kitson, of Leeds, in the county of York, Engineer, for an invention of "Improvements in the manufacture of railway wheels."—Dated 3rd April, 1856.

850. Alexander Charles Louis Devaux, of King William Street, in the city of London, Merchant, for an invention of "Improvements in the construction and fitting up of granaries."—Dated 8th April, 1856.

26th March.

747. James Harrison, of Geelong, in the colony of Victoria, Gentleman, Member of the Legislative Council of Victoria, for an invention of "Producing cold by the evaporation of volatile liquids in vacuo, the condensation of their vapours by pressure, and the continued re-evaporation and re-condensation of the same materials."—Dated 28th March, 1856.

749. James Harrison, of Geelong, in the colony of Victoria, Gentleman, Member of the Legislative Council of Victoria, for an invention of "Distilling or evaporating in vacuo, condensing the vapour by pressure, and economizing heat."—Dated 28th March, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents for Inventions which were Delivered, Prolonged, and became Void during the Month of December, 1858.†

(Communicated by the Austrian Government.)

1. Patents Delivered.

1. Samuel Singer, of Vienna, for "Wire nets with double springs, being a substitute for girths in polsters of chairs and beds."—1 year.—(Public.)—Dated 2nd December, 1858.

2. Koppelmann Gutkind, of Prague, for "Obtaining gum-lake for all kinds of shoes of leather and gum, from a mixture of oxides and the juice of plants."—1 year.—(Secret.)—Dated 2nd December, 1858.

3. Koppelmann Gutkind, of Prague, for "Obtaining chemically pure garancine-ink from a mixture of oxides and the juice of plants."—1 year.—(Secret.)—Dated 2nd December, 1858.

4. Carl Rosenfeld, of Pest, for "Improvements in fitting window-glass by means of a peculiar cement."—1 year.—(Secret.)—Dated 4th December, 1858.

5. Rudolph Stengl, of Vienna, for "Obtaining plastic ornaments and entire objects, such as frames, vases, &c., by means of wire coated with string."—1 year.—(Secret.)—Dated 5th December, 1858.

6. Salomon Huber, of Carolinenthal, near Prague, for "Squirts with two peculiar double-action pumps and apparatus belonging thereto."—1 year.—(Public.)—Dated 6th December, 1858.

7. Bartholom. Dworak, of Vienna, for "Improvements in the construction of expansive tables."—1 year.—(Public.)—Dated 6th December, 1858.

8. Siegfried Marcus, of Vienna, for "A magneto-electrical indicator, combined with a key-board and peculiar commutators, whereby telegraphic messages may be conveyed interruptedly to great distances without regard to the source of electricity, and without applying voltaic elements."—1 year.—(Secret.)—Dated 7th December, 1858.

9. Friedrich Ludwig Mylins, of Berlin, represented by Dr. Guthery, Vienna, for "An expeditious distilling apparatus with means of concentrating and isolating, combined with a chemical apparatus for obtaining chemically pure spirits at 92 per cent. according to Tulles directly from the wort, and without applying charcoal or any other chemical substances for removing the fusel therefrom."—2 years.—(Secret.)—Dated 7th December, 1858.

10. Matthäus Fracass, of Venice, for "A motive power obtained without steam, horses, or fuel, and being applicable to the propelling of locomotives, carriages, or vessels, and to other industrial purposes."—5 years.—(Secret.)—Dated 7th December, 1858.

11. Joseph Anton Tremeschini, of Vicenza, for "A cheap mode of obtaining designs for weaving figured stuffs."—1 year.—(Secret.)—Dated 7th December, 1858.

12. August Lenz, of Vienna, for "Improvements in railway breaks obtained by means of peculiar apparatus."—2nd year.—(Public.)—Dated 10th December, 1858.

13. Ernst Werner Siemens and Johann Georg Halske, of Berlin, represented by Dr. Max von Schickh, Vienna, for "Improvements in their Patent regenerating fire-places, whereby not only the air but also the lighting gas produced in gas-furnaces is heated up to the temperature of the furnace, previous to being mixed together and consumed."—15 years.—(Secret.)—Dated 10th December, 1858.

14. Friedrich Arthur Paget, of Vienna, for "Carbonizing brown coal and lignite, and for obtaining a substance therefrom which is equal to charcoal."—1 year.—(Secret.)—Dated 10th December, 1858.

15. Joseph Klemm and Simon Marth, of Vienna, for "A cylinder apparatus for the conversion of moneys, weights, and measures, and for calculating interests."—1 year.—(Public.)—Dated 10th December, 1858.

16. Wilhelm Osimilslh, of Vienna, for "Improvements in the construction of railway carriages and breaks."—1 year.—(Secret.)—Dated 10th December, 1858.

17. Daniel Hooibrenk, of Hietzing, near Vienna, for "Improvements in the culture of vines, whereby they are made to produce a fourfold quantity of grapes, without weakening the stem."—1 year.—(Secret.)—Dated 10th December, 1858.

18. Daniel Hooiboenk, of Hietzing, near Vienna, for "Improvements in the culture of mulberry trees, whereby better and more wholesome leaves in double and fourfold the quantity than usual is produced without injuring the trees."—1 year.—(Secret.)—Dated 10th December, 1858.

19. Johann Parizek, of Vienna, for "A chemical process for obtaining pure, cool, durable, and cheap pitch for coating beer casks."—1 year.—(Secret.)—Dated 11th December, 1858.

20. Franz Natal Crevatin, of Triest, for "A mode of protecting animal and vegetable substances, such as meat, game, poultry, fish, vegetables, &c., from alteration, and especially from corruption."—1 year.—(Secret.)—Dated 11th December, 1858.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

21. Georg Benedetti, of Triest, for "Coating doors with paper imitating varnished wood instead of colouring or varnishing the same."—1 year.—(Secret.)—Dated 11th December, 1858.

22. Arnauld Banco, of Marchiennes, France, represented by Georg Märkl, Vienna, for "Improvements in rasping machines for beetroot manufactories, and for other industrial and economical purposes."—1 year.—(Public.)—Dated 11th December, 1858.

23. Anton Louis Adolph Favier, of Paris, represented by Georg Märkl, Vienna, for "Improvements in expeditious tanning."—1 year.—(Secret.)—Dated 11th December, 1858.

24. Louis Blum, of Paris, represented by A. Martin, Vienna, for "A machine for blackening smoking pipes and mouthpieces of cigars."—5 year.—(Public.)—Dated 11th December, 1858.

25. Theophil Weiss and Ant. Weisse, of Prague, for "Hand-saws of wood, hollow and solid iron, which may be taken to pieces, and for substituting wire for hemp in bracing them up."—1 year.—(Secret.)—Dated 11th December, 1858.

26. Stephan Vidats, of Pest, for "Improvements in the manufacture of hoes and spades, by means of which their blades are cut from rolled iron or steel with sharp and bent edges, whilst their sockets and eyes are forged separately in the swage, and provided with four rivets."—2 years.—(Public.)—Dated 11th December, 1858.

27. Wenzel Skrivan, of Pest, for "Improvements in the manufacture of felt and silk hats for making them impervious to grease, perspiration, and rain, and for maintaining the shape of felt rims."—1 year.—(Secret.)—Dated 11th December, 1858.

28. Christian Metz and Joseph Hronek, of Pest, for "Improvements in ladies' garments by applying an elastic string near the neck and arms of the wearer."—1 year.—(Secret.)—Dated 16th December, 1858.

29. Alois Auer, of Vienna, for "Connecting typographic, lithographic, and copper-plate presses with machines producing endless paper, so as to feed said presses continuously, also for connecting reels on which endless paper is wound up, with such presses, whereby the usual manual labour or machines for fixing the sheets may be dispensed with."—1 year.—(Secret.)—Dated 17th December, 1858.

30. Thomas Restell, of London, represented by Friedrich Paget, Vienna, for "Improvements in chambered fire-arms, with projectiles and cartridges belonging thereto."—1 year.—(Secret.)—Dated 17th December, 1858.

31. Carl Ehrhardt, of Frankfort-on-the-Maine, represented by Laurenz Angebauer, Vienna, for "Manufacture of extracts of hops and oil of hops for brewing beer."—5 years.—(Secret.)—Dated 17th December, 1858.

32. Markus Anton Franz Mennons, of Paris, represented by A. Martin, Vienna, for "A peculiar construction of military and other tents."—1 year.—(Secret.)—Dated 17th December, 1858.

33. Ludwig Montanari, of Lyons, represented by Georg Märkl, Vienna, for "Night-lights combined with an apparatus for indicating the time."—1 year.—(Public.)—Dated 17th December, 1858.

34. Adam Barwitz, of Ottakring, near Vienna, for "Improvements in the construction of lasts for shoes and boots according to the requirements of the wearer."—1 year.—(Secret.)—Dated 17th December, 1858.

35. Albert Eckstein, of Fünfhaus, near Vienna, for "A simple method of manufacturing oil for lighting and lubricating purposes from all kinds of tar and from resin, without using water steam."—1 year.—(Secret.)—Dated 17th December, 1858.

36. Emanuel Uhlig, of Stragowitz, Moravia, for "Working blast furnaces by means of gas obtained from fuel or its waste or from the mouth of the furnace, and which has been purified and compressed by a peculiar apparatus."—1 year.—(Secret.)—Dated 17th December, 1858.

37. Adolph Anton Leibinger, of Vienna, for "Coupling the movable frames of locomotives or locomotives with tenders and railway-carriages in such a manner as to allow them to travel on all curves."—1 year.—(Public.)—Dated 17th December, 1858.

38. Ignaz Hauser, of Pest, for "Improvements in suspending men's dresses."—1 year.—(Secret.)—Dated 17th December, 1858.

39. Gustav Schetz, of Oberhollabrunn, Lower Austria, for "A so-called 'saloon carriage' with a peculiar construction of the interior for the conveyance of passengers by means of horses."—3 years.—(Public.)—Dated 17th December, 1858.

40. Moriz Preyss and Dr. Daniel Wagner, of Pest, for "A process for doubling and quadrupling the lighting power of common gas according to its quality."—1 year.—(Secret.)—Dated 17th December, 1858.

41. Henning Boëtins and Hermann Wedekind, of Kreuznach, Prussia, represented by Joseph Böhm, Vienna, for "An improved caloric engine."—1 year.—(Secret.)—Dated 17th December, 1858.

42. Henning Boëtins and Hermann Wedekind, of Kreuznach, Prussia, represented by Joseph Böhm, Vienna, for "An apparatus for obtaining artificial ice and for cooling the atmosphere in separate places."—1 year.—(Secret.)—Dated 17th December, 1858.

43. Johann Bartholomäus Camillo Polonceau, of Orléans, represented by Georg Märkl, Vienna, for "Improvements in expansion engines."—1 year.—(Public.)—Dated 18th December, 1858.

44. Joseph Weittenhiller, of Eichstätt, Bavaria, represented by Franz Patznick, Vienna, for "A mode of blackening slabs made of white calcareous schist, and all common burnt flagstones used for covering roofs, and likewise all kinds of tiles and bricks whereby they are made to resist the action of fire and dampness, and even of vitriol and aqua-fortis, and to combine with mortar and lime."—1 year.—(Secret.)—Dated 18th December, 1858.

45. Eduard Steiner, of Vienna, for "A kind of gold, silver, bronze or steel jewels, which may be exchanged."—2 years."—(Secret.)—Dated 18th December, 1858.

46. Caspar Eisenbach, of Troppau, for "Improvements in the manufacture of hollow axles for railway carriages, being massive near the journal

boxes."—3 years.—(Secret.)—Dated 18th December, 1858.

47. Lewy Bissell, of New York, represented by August Lenz, of Vienna, for "A peculiar apparatus in wheel frames of locomotives, whereby a greater safety is obtained."—2 years.—(Public.)—Dated 18th December, 1858.—(American Patent, 4th August, 1857.)

48. Heinrich Kessels, of Vienna, for "A puzzle lock which cannot be picked."—1 year.—(Secret.) —Dated 18th December, 1858.

49. F. G. Rietsch, of Böhmisch Rudoletz, Moravia, for "A peculiar apparatus for evaporating all kinds of fluids."—1 year.—(Secret.)—Dated 18th December, 1858.

50. Eduard Steiner, of Vienna, for "Gold, silver, bronze, or steel jewellery which may be changed by a mechanical contrivance."—2 years.—(Secret.)— Dated 20th Decemoer, 1858.

51. Ignaz Michael Firnstahl, of Vienna, for "Improvements in his patent excentric double printing machine for fabrics."—1 year.—(Secret.) —Dated 23rd December, 1858.

52. Adolph Winter, of Mühlburg, Baden, represented by August Schmidt, Vienna, for "Obtaining a dyeing substance called 'Baden red,' from the stems of millet, and for using its solutions as a colour."—5 years.—(Secret.)—Dated 23rd December, 1858.—(Baden Patent, 12th January, 1858, and French Patent, 8th April, 1858.)

53. Georg Carter, of Nottingham, represented by Georg Märkl, Vienna, for "An improved method of propelling and governing ships."—3 years.— (Public.)—Dated 23rd December, 1858.

54. Theophil Weisse and Anton Patzelt, of Czaslau, for "A regulating centrifugal macerating apparatus, applicable especially to sugar works."— 1 year.—(Secret.)—Dated 24th December, 1858.

55. Johann Zeh, of Vienna, for "Improvements in chimneys of locomotives, whereby the smoke is prevented from being blown down by contrary winds."—1 year.—(Public.)—Dated 27th December, 1858.

56. Franz Pampichler, of Gravenberg, Lower Austria, for "Improvements in the construction of turbines."—1 year.—(Public.)—Dated 27th December, 1858.

57. Samson Anspitzer, of Vienna, for "A so-called 'disk' for reducing moneys."—1 year.—(Secret.)— Dated 27th December, 1858.

58. Carl Emanuel Brosch, of Prague, for "Mills in which the upper millstone is immoveable."— 1 year.—(Secret.)—Dated 27th December, 1858.

59. Carl Fuss, of Vienna, for "A portable continuous baking apparatus for the field."—1 year. —(Secret.)—Dated 27th December, 1858.

60. Carl Fuss, of Vienna, for "A portable mill with two grinding surfaces, and two revolving millstones."—1 year.—(Secret.)—Dated 27th December, 1858.

61. The Council for the Austrian Society for the Manufacture of Chemical and Metallurgical Articles, for "Working sulphurous (pyritic) and oxidated (ochrous) copper ores, as well as fallow copper ores, by the wet process, also for obtaining the chemical agents required thereto at a cheap price from the waste matter produced in the manufacture of soda, and for recovering all valuable substances contained in such waste matter."—5 years.—(Secret.)— Dated 29th December, 1858.

62. Franz Rüdinger, of Vienna, for "Improvements in sewing machines, whereby the oil is prevented from running into the mail catch."—1 year. —(Secret.)—Dated 29th December, 1858.

63. Israel Guttmann, of Pest, for "Improvements in the construction of kitchen-stoves and ranges, whereby the degree of heat may be properly regulated."—1 year.—(Secret.)— Dated 29th December, 1858.

64. Johann Oetl, of Pest, for "Improvements in the safety locks of iron chests."—1 year.—(Secret.) —Dated 29th December, 1858.

65. Gerhard Uhlhorn, of Grevenbroich, near Cologne, represented by J. H. Stametz and Co., Vienna, for "A mechanical apparatus for grinding and repairing the points of worn-out cards."— 4 years.—(Public.)—Dated 30th December, 1858. —(Prussian Patent, 25th August, 1858.)

66. Ignaz Michael Firnstahl, for "A double printing machine for printing neckerchiefs of all sizes downwards."—1 year.—(Secret.)—Dated 31st December, 1858.

67. Joseph Saxeneder, of Ischl, Upper Austria, for "Manufacture of water and fire proof bricks." —1 year. — (Secret.) — Dated 31st December, 1858.

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2. Prolonged Patents.

1. Ludwig Szalcky, for "Improvements in the manufacture of cylindrical bellows."—5th year.— (Secret.)—Dated 17th November, 1854.

2. Eduard Schmidt and Friedrich Paget, for "Improvements in wheels of locomotives and railway carriages."—3rd year.—(Secret.)—Dated 16th November, 1856.

3. Peter Bart, for "So-called 'Iris pomatum."— 3rd year.—(Secret.)—Dated 17th November, 1856.

4. Joseph Martinek, for "Improvements in a steam machine for making tiles, as patented by him and Joseph Karliczek."—2nd year.—(Secret.) —Dated 12th November, 1857.

5. Wilhelm Bandelin (Cäcilie Feusser, assignee,) for "A substance called 'plastic stone paste.'"— 3rd year.—(Secret.)—Dated 5th January, 1857.

6. Peter Ramoni (Michael Bronzini, assignee,) for "Veneers for inlaying furniture, and especially floors."—6th and 7th years.— (Secret.)— Dated 30th November, 1853.

7. Sigmund Schlesinger, for "Improvements in the manufacture of safflower-carmine."—3rd and 4th years.—(Secret.)—Dated 14th December, 1856

8. Sigmund Schlesinger, for "Manufacture of yellow dye from berries of buckthorns."—3rd and 4th years. — (Secret.) — Dated 24th December 1856.

9. Johann Baptist Vitali, for "A process for destroying the chrysalides of silk-cocoons."—2nd year.—(Secret.)—Dated 6th November, 1857.

10. Adolph Patera, for "A simple method of obtaining cobalt and nickel from the regulus of cobalt and nickel."—2nd year.—(Secret.)—Dated 29th November, 1857.

11. Moriz Blau and Moriz Friedmann, for "A mode of rendering ladies' dresses more durable."—2nd year.—(Secret.)—Dated 15th December, 1857.

12. Franz Fischer von Rösslerstamm, for "Improvements in the shape of axles for railway carriages."—2nd year.—(Public.)—Dated 27th November, 1857.

13. Peter Bruno Joseph Elias Cabannes, for "Improvements in grinding mills."—2nd year.—(Secret.)—Dated 11th December, 1857.

14. Moriz Kniely, for "Cleaning oiled hemp, oakum, and other stuffs used in cleaning machinery."—6th year.—(Secret.)—Dated 18th November, 1853,

15. Barbara Schmidt, for "Manufacture of linen or woollen socks of one piece, and with a single seam."—5th year.—(Public.)—Dated 20th Novem-1854.

16. Sigmund Schwarz, for "Improvements in elastic covers and packing paper."—4th year.—(Secret.)—Dated 15th December, 1855.

17. Heinrich Völter, for "A wood-cutting machine, with a peculiar sorting apparatus and self-actor."—3rd year.—(Secret.)—Dated 27th November, 1856.

18. Alois Platzer and L. Ruziczka, junr., for "Blue for washing."—2nd year.—(Secret.)—Dated 17th November, 1857.

19. Julius Eckel, for "A nibbling mill."—2nd year.—(Secret.)—Dated 21st November, 1857.

20. Robert and Eduard Boldini, for "Oil-colour designs for all kinds of paper."—2nd year.—(Secret.)—Dated 24th November, 1857.

21. Baron Ludwig Lo Presti, for "A machine for removing the roots of trees."—8th year.—(Public.) Dated 23rd November, 1851.

22. Moriz Neufeld, for "A peculiar process for inking the stones in lithographic printing."—2nd year.—(Secret.)—Dated 24th November, 1857.

23. Hermann Gotthilf Möhring, for "Improvements in steam water-pumps."—2nd year.—(Public.)—Dated 24th November, 1857.

24. Hermann Gotthilf Möhring, for "A nibling and grinding mill."—2nd year.—(Public.)—Dated 11th December, 1857.

25. Johann Keusch and Dr. Franz Drinkwelder, for "An improved method of manufacturing Krems vine-scissors and other scissors."—8th year.—(Secret.)—Dated 23rd November, 1851.

26. Abraham Ganz, for "Using a substance for the purpose of acierating the surface of cast-iron articles entirely or partly."—3rd and 5th year.—(Secret.)—Dated 27th November, 1856.

27. Moriz Danglowitz, for "Improvemennts in machines for manufacturing all kinds of lace-work."—6th year.—(Secret.)—Dated 26th September, 1853.

28. Joseph Bernhardt, for "A machine for printing coloured stuffs for garments."—3rd year.—(Secret.)—Dated 6th December, 1856.

29. Peter Ludwig Grosrenand, for "A refining and smelting furnace."—3rd year.—(Public.)—Dated 20th February, 1857.

30. Joseph Bernhardt, for "Improvements in his machine for printing coloured stuffs for garments."—2nd year.—(Secret.)—Dated 7th January, 1858.

31. Johann Winkler (Gustav Adolph Krause, assignee), for "Improvements in the manufacture of oil-cloth and varnished leather."—5th year.—(Secret.)—Dated 29th November, 1854.

32. Friedrich Anton Prost, for "Improvements in weaving."—3rd year.—(Public.)—Dated 9th December, 1856.

33. Franz von Furtenbach, for "An apparatus for dry distilling."—2nd year.—(Secret.)—Dated 1st December, 1857.

34. Johann Baptist Maniquet, for "A mechanical apparatus for spinning and twisting fibrous substances, and especially silk."—2nd year.—(Public.)—Dated 14th December, 1857.

35. Carl Pauvert, for "A process for converting iron into natural steel."—2nd year.—(Secret.)—Dated 21st December, 1857.

36. Franz Basil Boccard, for "An apparatus for preventing accidents in working circular saws."—2nd year.—(Public.)—Dated 29th November, 1857.

37. Wenzel Mikisch, for "Improvements in circular looms."—2nd year.—(Public.)—Dated 6th January, 1858.

38. Lucian Arbel, for "Manufacture of wheels of railway carriages from wrought iron."—2nd year.—(Public.)—Dated 21st January, 1858.

39. Andreas Zoubschaninoff, for "A peculiar mode of cementing casks and other wooden vessels."—2nd year.—(Secret.)—Dated 28th January, 1858.

40. Georg M. Rolans and Alexis Qurin, for "Improvements in their Patent machine for making wire tacks."—6th and 7th years.—(Secret.)—Dated 4th December, 1853.

41. Louise and Pauline Paltauf, for "Improvements in the manufacture of shirts."—2nd year.—(Secret.)—Dated 4th December, 1857.

42. Rudolph Dittmar, for "Manufacture of rape-oil by using an acid not used hitherto."—2nd year.—(Secret.)—Dated 6th January, 1858.

43. Wilhelm Knaust, for "Clock-valves."—8th year.—(Secret.)—Dated 17th December, 1851.

44. Anton Henke, for "Improvements in sewing machines."—3rd, 4th, and 5th years.—(Public.)—Dated 4th December, 1856.

45. Gustav Starke, for "Improvements in planimeters."—3rd year.—(Public.)—Dated 17th December, 1856.

46. Georg Heidenwag, for "A machine for splitting wood."—2nd year.—(Public.)—Dated 2nd December, 1857.

47. Wilhelm Niebauer, for "Oil for the hair."—3rd year.—(Secret.)—Dated 9th December, 1856.

48. Severin Zavisics, for "Portable steam and shower apparatus."—3rd year.—(Secret.)—Dated 10th December, 1856.

49. Carl König, for "Obtaining a fluid gaseous substance called 'pinoline,' from vegetable substances."—2nd year.—(Secret.)—Dated 14th December, 1857.

50. Friedrich Feiler, for "So-called 'universal cane umbrellas.'"—2nd year.—(Public.)—Dated 27th December, 1857.

51. Albert Hirsch, for "Rendering furniture more durable by means of so-called 'indissoluble glue.'"—2nd year.—(Secret.)—Dated 11th December, 1857.

52. Carl König, for "Improvements in gas-burners for lamps, lustres, and candlesticks."—2nd year.—(Secret.)—Dated 11th December, 1857.

53. Leopold Gorentschiz, for "Improvements in sewing machines."—4th year.—(Secret.)—Dated 19th December, 1855.

54. Theresia Kamauf, for "An apparatus for evaporating water and other volatile substances."—3rd year.—(Secret.)—Dated 10th December, 1856.

55. Julius von Mannstein, for "Improvements in furniture that may be taken to pieces, as patented by Max von Mannstein on the 20th May, 1857."—2nd year.—(Secret.)—Dated 19th December, 1857.

56. Leopold Gorentschiz, for "Improvements in sewing machines."—2nd year.—(Public.)—Dated 24th December, 1857.

57. James Brown, for "Improvements in the manufacture of paper."—2nd year.—(Secret.)—Dated 26th December, 1857.

58. Johann Jacob Guillet, for "A process for purifying and drying combustible and carbonaceous minerals."—6th year.—(Secret.)—Dated 12th October, 1853.

3. Patents which have become Void.

1. Emil Pfeifer, for "An improved process for the manufacture of sugar without using animal coal."—Dated 1st February, 1854; annulled 1st December, 1858, in consequence of not having been worked.

2. Louis von Haber, for "A direct process for reducing ores of silver, copper, and lead, zinc, nickel, cobalt, and antimonium."—Dated 7th March, 1854; annulled 1st December, 1858, in consequence of not having been worked.

3. Heinrich von Claudius, for "Controlling marks which cannot be counterfeited."—Dated 31st March, 1854; disclaimed 1st December, 1858.

4. John Bishop-Hall, for "Obtaining a high degree of artistic effect in all kinds of pictures."—Dated 14th October, 1856; expired 14th October, 1858.

5. Gustav Brünner, for "Improvements in Grasmann's solar gas-lamps."—Dated 11th July, 1857; expired 11th July, 1858.

6. Cölestin Müller, for "Means of facilitating the study of playing at piano."—Dated 7th November, 1857; expired 7th November, 1858.

7. Wenzel Matanelli, for "Manufacture of clay flagstones for covering houses and towers."—Dated 14th June, 1852; expired 14th June, 1858.

8. Johann Nadler and Adolph Eder, for "A process for ungreasing glue made of animal bone."—Dated 23rd September, 1856; expired 23rd September, 1858.

9. Rudolph Girtler, for "Obtaining great quantities of paraffine and mineral oils from bituminous substances by means of super-heated water, steam, and certain physical apparatus."—Dated 10th October, 1857; expired 10th October, 1858.

10. Alois Miesbach, for "Improvements in tile-kilns."—Dated 9th May, 1853; expired 9th May, 1858.

11. Jacob Franz Heinrich Hemberger, for "Improvements in rotary steam-engines."—Dated 23rd May, 1853; expired 23rd May, 1858.

12. Jacob Franz Heinrich Hemberger, for "A transversal gig-mill."—Dated 12th May, 1856; expired 12th May, 1858.

13. Jacob and Honoratius Luraghi, for "Improvements in the construction of furnaces and recipients for the manufacture of glass."—Dated 20th May, 1853; expired 20th May, 1858.

14. Franz Xaver Wurm, for "A chocolate mill with a rasping vessel for obtaining chocolate free from sand."—Dated 28th May, 1853; expired 28th May, 1858.

15. Johann Georg Jerger, for "Improvements in the manufacture of horn-plates."—Dated 29th May, 1853; expired 29th May, 1858.

16. Carl Fabricius, for "An atmospheric machine for heating houses, railway carriages, &c."—Dated 3rd May, 1854; expired 3rd May, 1858.

17. James Newall, for "Improvements in breaks for railway and other carriages."—Dated 4th May, 1855; expired 4th May, 1858.

18. Georg von Winiwarter and Heinrich Schmid, for "Construction of railway-carriages of sheet-iron with iron pipes and buffers throughout."—Dated 22nd May, 1855; expired 22nd May, 1858.

19. Georg von Winiwarter, for "A peculiar system of constructing and fixing stationary engines."—Dated 30th June, 1857; expired 30th June, 1858.

20. Cajetan von Bonelli, for "Improvements in his electrical looms, as patented 24th December, 1853, and 7th May, 1854."—Dated 23rd May, 1855; expired 23rd May, 1858.

21. Julius Roth, for "A process for manufacturing pressure cylinders or rollers of spinning mills."—Dated 24th May, 1855; expired 24th May, 1858.

22. Sigmund Floch, for "Improvements in the manufacture of artificial marble."—Dated 4th May, 1856; expired 4th May, 1858.

23. Charles Low, for "Separating gold from its ores."—Dated 4th May, 1856; expired 4th May, 1858.

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

24. Lorenz Radi, for "Obtaining a glass substance, imitating the oriental chalcedony."—Dated 7th May, 1856; expired 7th May, 1858.

25. Moriz Lebrecht Friedrich, for "Improvements in stocking frames."—Dated 11th May, 1856; expired 11th May, 1858.

26. Anton Speltz, for "Obtaining motive power by means of weights."—Dated 14th May, 1856; expired 14th May, 1858.

27. Peter Maybon and Carl Baptiste, for "A mechanical process for obtaining tenons and loops for joinery and carpenters' work."—Dated 28th May, 1856; expired 28th May, 1858.

28. Ferdinand Laas, for "Manufacturing pig-iron from prepared iron ores in a peculiar gas smelting furnace."—Dated 28th May, 1856; expired 28th May, 1858.

29. Ludwig Seyss, for "Improvements in spring manometers packed with caoutchouc."—Dated 3rd May, 1857; expired 3rd May, 1858.

30. Caspar Schüll, for "A peculiar composition for soldering tin articles."—Dated 3rd May, 1857; expired 3rd May, 1858.

31. Julius Vollgold, for "An apparatus in gas lamps for obtaining a better light."—Dated 7th May, 1857; expired 7th May, 1858.

32. Salomon Schlesinger, for "A machine for forging, holing, file-cutting, pressing, slotting and cutting."—Dated 10th May, 1857; expired 10th May, 1858.

33. Felice Rignon, for "A heating apparatus for silk-spinning mills."—Dated 10th May, 1857; expired 10th May, 1858.

34. Nikolaus Ivanovits, for "A tooth-powder for children."—Dated 10th May, 1857; expired 10th May, 1858.

35. Moriz Hummel, for "Improvements in fancy leather work."—Dated 10th May, 1857; expired 10th May, 1858.

36. Franz Guichené, for "A mechanism called symphonista, for obtaining full accords on pianos or organs, without touching more than one key."—Dated 10th May, 1857; expired 10th May, 1858.

37. Moriz Neufeld, for "A peculiar press for transferring copper engravings and lithographies on copper plates."—Dated 13th May, 1857; expired 13th May, 1858.

38. Joseph Fisoher, for "Manufacture of tobacco pipes and cigar mouth-pieces from meerschaum waste combined with a new substance."—Dated 21st May, 1857; expired 21st May, 1858.

39. Ferdinand Kölgen, for "An inoffensive means of removing ink from stuffs."—Dated 22nd May, 1857; expired 22nd May, 1858.

40. Adrian Stockar, for "Improvements in breaks."—Dated 27th May, 1857; expiring 27th May, 1858.

41. Peter Joseph Kessels, for "Improvements in fire-proof chests."—Dated 27th May, 1857; expired 27th May, 1858.

42. Michael Hirsch Frankl, for "Improvements in seals."—Dated 29th May, 1857; expired 29th May, 1858.

43. Mathias Weingartshofer, for "Improvements in photographic and acromatic double objective glasses."—Dated 30th May, 1857; expiring 30th May, 1858.

44. Joseph Perger, for "Improvements in capsule and other fire-arms."—Dated 30th May, 1858; expiring 30th May, 1858.

45. Nikolaus Mulkay, for "An apparatus applicable to the smoke-box of steam-engines, whereby the feeding water is heated and part of the heat of the smoke-box is utilized."—Dated 22nd October, 1853; expired 22nd October, 1858.

46. Claude Moret, for "Improvements in rotary steam-engines."—Dated 9th October, 1856; expired 9th October, 1858.

47. Eduard Georg Hammer, for "Plastic frames and glass ornaments."—Dated 29th August, 1857; expired 29th August, 1858.

48. Johann Christoph Endris, for "Improvements in the manufacture of iron and steel."—Dated 15th September, 1856; expired 15th September, 1858.

49. W. A. Ryba, for "A new calorifere stove."—Dated 6th November, 1857; expired 6th November, 1858.

50. Ludwig Franz Ruziczka, for "Fly-powder."—Dated 9th August, 1858; disclaimed 9th November, 1858.

51. Maier and David Mandl, for "A composition for finishing silk and silk ribbons."—Dated 3rd June, 1853; expired 3rd June, 1858.

52. A. M. Pollak, for "Improvements in the manufacture of soap for industrial purposes, washing, and shaving."—Dated 3rd June, 1853; expiried 3rd June, 1858.

53. Robert Doms, for "A mode of manufacturing empyreumatic oils from bituminous earths and wood tar, which will burn without causing any soot or smell."—Dated 7th June, 1853; expired 7th June, 1858.

54. Johann Franz Regnier, for "An improved new principle for draining and working mines."—Dated 14th June, 1853; expired 14th June, 1858.

55. Carl Wilhelm Bernhuber, for "An improved process for obtaining the grease of bones."—Dated 12th June, 1853; expired 12th June, 1858.

56. Johann Anton Mathis and Johann Joseph Suderell, for "A new motive power."—Dated 19th June, 1853; expired 19th June, 1858.

57. Carl Weszely, for "Improvements in churns."—Dated 12th June, 1853; expired 12th June, 1858.

58. Franz de Paula Schürer and Georg Gleischner, for "Improvements in vine scissors."—Dated 2nd June, 1855; expired 2nd June, 1858.

59. Friedrich Paget and Joseph Choczensky, for "Improvements in the manufacture of beds and mattresses."—Dated 13th June, 1855; expired 13th June, 1858.

60. Gustav von Csapo, Arian Jedlick, and Leo Haman, for "Improvements in the construction of galvanic elements, and batteries for illumi-

nating and other purposes."—Dated 25th June, 1855; expired 25th June, 1858.

61. Anton v. Sibrik, for "Improvements in sewing machines."—Dated 10th June, 1856; expired 10th June, 1858.

62. Heinrich Magrini, for "A machine for husking rice, barley, and other grain."—Dated 21st June, 1856; expired 21st June, 1858.

63. Joseph de Cente, for "Turned and pressed crucibles."—Dated 17th June, 1856; expired 17th June, 1858.

64. Franz Weichselberger, for "Improvements in hoes for vineyards."—Dated 27th June, 1856; expired 27th June, 1858.

65. Eduard di San Secondo, for "A mechanism for the manufacture of tissues on common looms without using cards or electricity."—Dated 3rd June, 1857; expired 3rd June, 1858.

66. Anton Zettl and Gottlifb Kann, for "A blue colour, called 'Pilsen blue.'"—Dated 5th June, 1857; expired 5th June, 1858.

67. Leopold Neumann, for "A machine for making so-called 'field arm-chairs.'"—Dated 7th June, 1857: expired 7th June, 1858.

68. Joseph Pichler, for "Improvements in ploughs."—Dated 8th June, 1857; expired 8th June, 1858.

69. Joseph Riedl, for "Improvements in economical ranges."—Dated 8th June, 1857; expired 8th June, 1858.

70. Carl Wenzel Dobry, for "Improvements in his pomatum as patented 12th April, 1856."——Dated 10th June, 1857; expired 10th June, 1858.

71. Johann Söhnge and Heinrich Köck, for "Improvements in iron safety chests."—Dated 13th June, 1857; expired 13th June, 1858.

72. Eduard Starche, for "Using electricity as a motive power."—Dated 13th June, 1857; expired 13th June, 1858.

73. Lorenz Ghisi, for "Wicks of tallow candles which require no snuffing."—Dated 13th June, 1857; expired 13th June, 1858.

74. Franz Willick, for "A chemical process and a peculiar apparatus for separating oil and fat from animal and vegetable substances."—Duted 13th June, 1857; expired 13th June, 1858.

75. Friedrich Ludwig Mylius, for "A rectifying and isolating apparatus for obtaining alcohol free from fusel oil."—Dated 19th June, 1857; expired 19th June, 1858.

76. Salomon Schlesinger, for "Improvements in the manufacture of fire-proof chests."—Dated 30th June, 1857; expired 30th June, 1858.

77. Joseph Hundriser and Mathias Koch, for "Fountain pens."—Dated 27th June, 1857; expired 27th June, 1858.

78. Joseph Hundriser and Mathias Koch, for "A powder or grease for destroying insects and infusoria."—Dated 12th July, 1857; expired 12th July, 1858.

79. Franz Horsky, for "A machine for distributing artificial manure."—Dated 30th June, 1857; expired 30th June, 1858.

80. W. Knaust, for "A system of fire-engines."—Dated 30th June, 1857; expired 30th June, 1858.

81. Johann Bürgl, for "A new improved process for smelting and separating cast steel."—Dated 27th June, 1857; expired 27th June, 1858.

82. Ludwig Seyss, for "Preventing friction in escapements of clocks by means of antifriction catches on the escapement wheel, and for regulating the motion of the same."—Dated 7th January, 1858; disclaimed 29th November, 1858.

83. Charles Felix Sebille, Eugène Bartholomey, and Charles Mariotte, for "A peculiar system of fire-places."—Dated 2nd July, 1857; expired 2nd July, 1858.

84. François Schepers, for "Improvements in fire-arms."—Dated 12th July, 1857; expired 12th July, 1858.

85. Johann Pecka, for "Improvements in obtaining round hollow-grooved pipes of iron for making furniture, bedsteads, railings, &c."—Dated 21st November, 1857; expired 21st November, 1858.

86. Vincenz dall' Aglio, for "A steam apparatus for washing and bleaching."—Dated 30th December, 1856; disclaimed 4th December, 1858.

87. Johann Nepomuk Kugl, for "Conglomerating coal-dust and wood chips."—Dated 11th April, 1855; disclaimed 6th October, 1858.

88. Joseph Zuleger, for "Boxes for drying cigars."—Dated 14th August, 1858; disclaimed 26th November, 1858.

89. Joseph Mayr, for "A machine for beating time."—Dated 17th July, 1855; expired 17th July, 1858.

90. Fanni Reihl, for "Mounting pearls and beads wit ut separating the same."—Dated 15th August, 1857; expiring 15th August, 1858.

91. Carl Friedrich Kuhn, for "Improvements in the manufacture of steel pens and penholders."—Dated 3rd July, 1843; expired 3rd July, 1858.

92. Baron Mars François Gaspard Desiré de Graindorge, for "An apparatus, called 'recto-motor,' being a substitute for paddle-wheels in vessels which are propelled by steam or any other power."—Dated 10th July, 1843; expired 10th July, 1858.

93. Baron Mars François Gaspard Desiré de Graindorge, for "A so-called 'safety steam-boiler with horizontal and cylindrical compartments.'"—Dated 10th July, 1843; expiring 10th July, 1858.

94. Ludwig Bentz, for "A chemical product, called 'Bentz-asphalt or Bentzit,' applicable as a coating for protecting wood, iron, &c. from rot, rust, or the action of the atmosphere, and likewise as a pavement."—Dated 30th September, 1857; expired 30th September, 1858.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 1st March, 1859, and each bearing that date.

No. 23,066. ABRAHAM ANDREWS, of Bernville, Pa., for an "Improvement in rotary engines."

"I am aware that plungers and evolving steam pistons have been made and used, but I do not claim either of them; but what I claim as my invention, and desire to secure by Letters Patent, is, 1st, I claim the mortised valve I, and its connection with the rod K, as operated by the cam wheel L, in combination with the said axle or shaft. 2nd, I claim thy arrangement of the plungers P, with their side rollers S, and cam wheels U, in combination with the axle or shaft B, substantially as herein described and for the purpose set forth."

No. 23,067. JOEL W. ANDREWS, of Norristown, Pa., for an "Improvement in brick moulds."

"Having thus fully described the nature and use of my improvement, I will now say, I do not claim the combination of two or more moulds for bricks in one frame; but what I claim, and desire to secure by Letters Patent, is, the arrangement of the pivoted handles D, D, links H, H, and bars F, F, connected to movable bottoms C, C, all substantially in the manner and for the purpose set forth."

No. 23,068. JONATHAN M. ALLEN, of Worcester, Mass., for an "Improved invalid's table."

"I claim the combination in the construction of a table for invalids, as set forth, of the revolving table bed or leaf, with the column made adjustable and capable of being fastened in position, substantially as described, the whole constituting a new and useful article of manufacture."

No. 23,069. JOHN C. BAKER, of Mechanicsburgh, Ohio, for an "Improvement in seed planters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the wheels (E and C) cams *k*, *l*, lever L, friction roller (*n*), and disk (*a*), the whole being constructed as and for the purposes set forth."

No. 23,070. JOSEPH BATTIN, of Newark, N. J., for an "Improved machine for cross-cut sawing."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the driving pulley *e* of the saw mandrel in connection with the pulleys *f*, *f*^{1}, one or both, placed in the carriage B, and the driving belt H, the parts being combined and arranged to operate substantially as and for the purpose set forth."

No. 23,071. J. C. BENTHALL, of Oakland, Texas, for an "Improvement in seed planters."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of the rock shaft K, connecting rod J, arm *h*, spring *i*, and pendent M, substantially as shown and described, for the purpose of enabling the seed-distributing device to be actuated by the leg of the operator."

No. 23,072. J. S. BRIGGS, of Michigan Bluffs, Cal., for an "Improvement in amalgamating riffles."

"What I claim as my invention is the cup punch, as constructed for saturating wood with quicksilver."

No. 23,073. T. D. BROWN, of Montville, Ohio, for "Improved harness attachment for supporting driving lines."

"What I claim, and desire to be secured by Letters Patent as a new article of manufacture, is an attachment or line supporter to be placed on a horse's rump, by securing it to the harness in the manner shown, or in any equivalent way, said attachment consisting of the adjustable strap A, pin and clasp B and C, cross piece D, adjustable standard F, and arms G, G, the whole arranged and combined as herein described, and for the purpose set forth."

No. 23,074. THOMAS BROWN, of Kenwood, N.Y., for an "Improvement in tram-staffs for facing mill-stones."

"I claim the arrangement and combination of the supporting ring A, arranged to rest or lie on the face of the stone, with the triangular frame G, and adjustable staff M, by which mill stones may be faced more accurately, and with greater facility, either plain or with suitable concavity or bosom."

No. 23,075. CHARLES BROWNLICH, of Buffalo, N.Y., for an "Improvement in harvesters."

"I claim the pivoted shoe E, constructed as herein described, and connected to the rear end of the frame of the machine by means of the bolt *f*, upon which it oscillates, in combination with the levers *g*, *h*, *i*, as arranged for the purpose herein set forth."

No. 23,076. I. L. CHAPMAN, of Kinmundy, Ill., for an "Improvement in corn harvesters."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination with a corn harvester frame having V-shaped conductors B, of sickle-shaped revolving cutters E, partially serrated, and partially plain-edged stationary cutters E, upper and lower horizontal-spring guide C, C, and D, D, and endless apron J, all arranged and operating substantially as and for purpose set forth. 2nd, the partially serrated and partially plain-edged stationary cutters E, of the form described and shown in combination with the rotary cutters F, substantially as and for the purposes set forth."

No. 23,077. GEORGE E. CHENOWETH, of Baltimore, Md., for an "Improvement in harvesters."

"Having thus fully described by my invention, I wish it to be understood that I do not claim a rectangular four-sided step or standard, whether oblong or square, for such have been used before though without any view to the object sought by my invention; but what I claim is a polygonal step, having more than four sides, in combination with a standard or post, the lower of which corresponds in figure with the interior of said step, as and for the purpose described."

No. 23,078. GEO. H. CLARKE, of East Washington, N. H., for an "Improvement in bee-hives."

"Having thus described my invention, I do not now claim the hollow bars D, for the same was secured to me, Letters Patent the 8th of January, 1856; but what I claim as herein particularly described, and desire to secure by Letters Patent, is, the construction and arrangement of the bars B, B, the same consisting in making each of them, with a salient, angular, or sharp, or nearly sharp lower edge or surface extending lengthwise of it, and downward from it substantially as described and represented, the several bars being arranged at convenient distances for the bees to pass between them or upward into the chambers A, A, as described."

No. 23,079. WILLIAM CLEMMONS, of Nicholasville, Ky., for an "Improvement in hemming guides for sewing machines."

"Having thus fully described my invention, I wish it distinctly understood that I make no claim to the general construction of the hemmer, or any portion of the devices for forming and turning over the hem; neither do I claim forming a recess in its under side to relieve the teeth of the feeder, as this has already been done. The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is the combination with the hemming attachment of the spring E, placed in the groove under the pressure pad, substantially as described for the purpose set forth."

No. 23,080. Henry L. De Zeng, of Geneva, N. Y., for an "Improved sausage stuffer."

"What I claim and desire to secure by Letters Patent, is, the construction and arrangement of the parts A, D, F, substantially in the manner and for the purpose set forth."

No. 23,081. L. A. Dole, of Salem, Ohio, for an "Improved washing machine."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, the arrangement of two winged rollers, with a flexible adjustable apron clothes bed, in the particular manner herein specified for the purpose set forth. 2nd, the use of a flexible apron clothes bed, when made adjustable, substantially as and for the purposes set forth. 3rd, the use of an adjustable swinging self-opening and self-closing rubber or leather packed valve or partition, in combination with the adjustable flexible apron bed, substantially as and for the purposes set forth."

No. 23,082. Charles R. Edwards, of Suspension Bridge, N.Y., for an "Improvement in spice and coffee mills."

"What I claim is, the burr *h*, *h*, provided with the flange *a*, *a*, and handle cast in one piece, in connection with the concave grinder, having the axle D cast upon the same, arranged and constructed substantially as and for the purposes set forth."

No. 23,083. Carloss Eggelston and Darwin E. Eggelston, of Beloit, Wis., for an "Improvement in seeding machine."

"Having described the construction and operation of my several improvements, what we claim as new, and desire to secure by Letters Patent, is,—1stly, the arrangement in the manner and for the purposes herein described of the rotating shaft B, in two or more parts, driving pulleys *d*, pulley encasement E, seed pockets D, stationary perforated bottom piece *a*, adjustable slide F, and cut-offs *h*. 2ndly, in combination with the above, I also claim the shipper G, and adjustable slide bar or guage *g*. When the shipper is pivoted to the gauge to operate as specified for the purpose described."

No 23,084. Jonathan Griffin, of Harpersfield, N. Y., for a "Machine for blowing uniform currents of air."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, 1st, operating the feeders F, F, alternately by means of the cross arms E, E, with the rollers t aversing the curvilinear elevating ways G, G, substantially as herein set forth. 2nd, regulating the quantity of air admitted in the air chamber H, according to the quantity required, by means of the check wire *f*, and sliding arm or brake *h* operating on the balance wheel K, arranged substantially as herein described. 3rd, connecting the top and bottom of the air chamber H by means of india-rubber straps or other springs when used in combination with the mechanism for driving the feeders, as described, to overcome and stop the operation of the motive power when the chamber is full, and thereby steady the current of air and prevent too great strain on the chamber."

No. 23,085. Elias J. Hale and Charles H. Chandler, of Foxcroft, Me., for an "Improvement in lamps."

"We do not claim a wick holder operated by a rack and pinion, and serving to hold or carry a wick, as shown in the United Patent, No. 14,248; but what we do claim is, our improved rack wick holder, as constructed and applied to the wick and the spur wheel, so that the teeth of the latter may pass through the rack and act on both the rack and the wick at one and the same time. 2nd, the flange or collar J, for the purpose of equalizing the aeriel current as it strikes the flame of the wick."

No. 23,086. Beverly Harris, of New Orleans, La., for an "Improvement in applications for restoring the hair."

"I do not claim the use of castor oil, bay rum, alcohol, or quinine for hair tonics, as I am aware these ingredients have heretofore been used for this purpose; but I claim the use of bitter apple and gumpowder, in combination with the before-stated ingredients, when used in substantially the same proportion as set forth, and for the purpose of hair tonics as herein described."

No. 23,087. William C. Haynes, of Melrose, Texas, for an "Improvement in revolving fire-arms."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, combining with a stationary barrel having several tubes or chambers for shot a rotating cylinder having groups of chambers, each group of chambers being so arranged as to correspond with the chambers or tubes in the barrel, and also so arranged in connection with a single cone, or its equivalent, to each group, that the explosion of the cap, or its equivalent, shall fire the whole group to which the cone upon which it was exploded belongs, the whole being constructed and operating substantially as set forth."

No. 23,088. William W. Huse, of Brooklyn, N. Y., for an "Improvement in manufacture of tin foil."

"I do not claim to have invented the manufacture of tin foil with a filling of lead; but what I claim as my invention, and desire to secure by Letters Patent, is, the production of tin foil, having but an outer casing of tin or its alloy covering a filling of lead, or its alloy, by the reduction by pressure of a cylindrical bolt of the latter metal or alloy, which has been previously coated by dipping with the former metal or alloy, and the repetition of the dipping at suitable stages of the reducing process, substantially as herein described."

No. 23,089. Peter Kessler, of Belleville, Ill., for an "Improvement in apparatus for distilling."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the stills A, B, and cooler Q, in combination with the vessels E, I, K, as described and shown, when said vessels are arranged so as to have a tapering space L, and an intermediate circulating passage G, *a*, *b*, J, *c*, between them, substantially as and for the purposes herein set forth."

No. 23,090. David P. Kinyon, of Raritan, N. J., for an "Improvement in harvesters."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the frame H, which supports the driving wheel F, so that the adjustment of the relative position of the driving wheel and cutter is effected by the leverage of the inner frame in the manner described for the purpose as set forth."

No. 23,091. F. C. Kneeland, of Hartford, Wis., for an "Improvement in horse-rakes."

"Having described my invention, I claim as new, and desire to secure by Letters Patent, the arrangement and combination of the shaft (c^1), pivoted within the frame F, and provided with the treadle G, arms (*h*), and bar (*i*), with the frame F, when the latter is pivoted to the axle A, all as and for the purpose herein shown and described."

No. 23,092. Hazard Knowles, of New York, N. Y., for an "Improvement in fastening bands on bales and packages."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method substantially as above described of fastening the ends of a metallic strap or hoop by passing each end of the strap or hoop through a slot in a metal plate, one edge of which slot is formed with a bent lip on the outer face, bending the end of the strap or hoop over and outside of such lip, and hammering or clinching down both the end of the strap and the lip that the strap or hoop may be clasped or held irrespective of the body, which is to be strapped or hooped substantially as described."

No. 23,093. Joseph G. E. Larned, of Brooklyn, N. Y., for an "Improved boiler for generating steam."

"What I claim as my invention, and desire to secure by Letters Patent, is, first, I claim the substitution for the parallel or concentric sheets of boiler plate ordinarily used to form the fire box of steam-boilers of a continuous row or rows of upright water-tubes, set side by side, to connect the steam drum or water space above the fire, with a water bottom below it, in such way as to form by themselves a water jacket, said tubes being inserted in the sheet above and below by means of necks or smaller continuations, the diameter of which is so much less than that of the tubes as to leave a sufficient thickness of metal between adjacent perforations of the sheet, when the tubes are placed near enough together to answer the purpose of enclosure, expressly disclaiming however the use of such necks or smaller continuations in themselves considered, or for any other purpose or in any other arrangement than that herein set forth. Second,

the combination of rows of water tubes set side by side by side, to enclose the furnace, with tubes arranged annularly, to give increased surface, without reference to the particular method of inserting the enclosing or arranging the annular tubes. Third, the method of inserting the innermost of the tubes when arranged in pairs, one within the other, as described, so that they may be taken out and put back at pleasure, and without injury, by means of a screw or locknut joint at one end, and a combined screw and expansion joint at the other."

No. 23,094. Edwin Laurence and Robert Safley, 2d., of Waterford, N. Y., for an "Improvement in pumps."

"What we claim as our invention, and desire to secure by Letters Patent, is, a circular reciprocating double-acting pump, that will both raise and propel water on both sides of the cylinder at one and the same time, and by the same motion of the arms or piston, substantially as herein-before set forth."

No. 23,095. A. F. Ledbetter, of Westminster, N. C., for an "Improved apple-cutting and coring machine."

"I do not claim the cutter E separately, for such device or its equivalent has been previously used; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the cutter E attached to the reciprocating frame C, in connection with the annular opening *i* in the bench A, and with or without the spout *g*, the parts being arranged to operate as and for the purpose set forth."

No. 23,096. Lewis W. Leeds, of New York, N.Y., for an "Improvement in apparatus for heating buildings."

"I do not claim broadly the use of steam as an agent for heating water; but what I claim as my invention, and desire to secure by Letters Patent, is, combining the uses of steam and water for heating buildings by means of one or more water vessels, combined with a separate steam boiler, and applied in such manner that the steam from the said boiler is employed only to heat the water in the said water vessel or vessels, and that the said water vessel or vessels constitute the heater or heaters of the air, as herein described."

No. 23,097. Hiram Littlejohn, of Troy, N. Y., for an "Improved machine for crozing and chamfering barrels."

"What I claim as my invention, and desire to secure by Letters Patent, is, crozing and chamfering barrels, kegs, or casks, by turning the bulging cylinders of staves in, upon, or against suitable rests or supports and around rotating cutters, which turn in opposite direction to and describe circles of less diameter than the inside of the ends of the cylinders of staves; the cutters and the rests being so arranged together, and one or both of them made movable, that the cylinders of staves can be conveniently applied to and removed from the rests and cutters, substantially as herein set forth."

No. 23,098. William H. Long, of Lancaster, Pa., for an "Improvement in horse rakes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of lever O, shifting lever plate N, and tooth beam B, with axle A, and regulating screw L, the whole being constructed and operated as and for the purpose herein set forth."

No. 23,099. Henry Lowe, of Belleville, N. J., for an "Improvement in paper made from reeds."

"I am aware that reed fibre has been reduced to a sort of pulp, but previous to my invention it has been found impossible practically to manufacture paper therefrom. I do not claim the above-described process for preparing reed fibre, a Patent for the same having been granted me by the United States in 1858; nor do I here claim the art of making reed pulp. I do not limit myself to the above-described process of making reed paper, or to any other process equivalent thereto; but what I claim, and desire to secure by Letter Patent, is, the use of reed fibre in making paper, said fibre being prepared from the reeds, called Arundinaria Macrosperma of Michaux, and employed in the manufacture of paper, substantially as set forth."

No. 23,100. John M. Lunquest, of Griffin, Geo., for an "Improvement in pumps."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of cylinders B, B, B, B, piston heads C, C, C, C, ball valves *a*, *a*, *a*, *a*, air chamber F, and valves a^1, a^1, a^1, a^1, said valves being kept in position by proximity to each other, and the sides of the chamber F, substantially in the manner and for the purpose herein specified."

No. 23,101. Saml. Macferran and Stricland Kneass, of Philda., Pa., for an "Improvement in crossing for railways."

"We wish it to be understood that we do not claim, broadly, the application of inclined surfaces on railroads for receiving the flanches of the car wheels; but we claim, and desire to secure by Letters Patent, the employment of inclined surfaces at the point where two rails intersect each other, when the said surfaces are arranged in respect to the intersecting rails, substantially as and for the purpose herein set forth."

No. 23,102. Edward Maynard, of Brooklyn, N.Y., for an "Improvement in carriage spring."

"What I claim as new, and desire to secure by Letters Patent, is, attaching the returned ends of the spring directly to each other, by means of the shackle *b*, substantially as and for the purpose specified."

No. 23,103. Morris Mattson, of Boston, Mass., for an "Improvement in treatment of caoutchouc."

"I do not claim any invention described in the patent of N. Hayward, dated February 24th 1839, and especially I do claim the combination of caoutchouc and sulphur broadly; but what, therefore, I claim as my new or improved india rubber composition or manufacture as made in manner substantially as specified, without any of the oxide of lead, but of caoutchouc, sulphur, and one or more ochres, or an earth or earths containing one or more finely divided oxides of iron, and employed in a quantity much greater than necessary for simply affording color to the compound, the quantity being essentially in the proportions as herein-before stated, or such as will afford the economical and useful results as explained."

No. 23,104. John G. Mitchell, of Collington, Md., for an "Improvement in motive power."

"Having thus fully described the nature and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, the application of weights A, A^1, and B, B^1, in connection with the shaft C, and treadle K, so that when disconnected from the treadle K, the weights A and A^1, and B and B^1, are in equilibrio, and subject to be moved by any agency applied to either weight at the end of the lever or arms, so as to produce motion in the machinery at the termination of the machine proper at I, arranged and operating in the manner and for the purpose above described."

No. 23,105. James Montgomery, of New York, N.Y., for an "Improvement in the construction of steam vessels."

"I claim as new, and of my invention, and desire to secure by Letters Patent, 1st, constructing the hulls of vessels with one or more cavities in the bottom, commencing at or near the stern, increasing in capacity sternwards substantially as and for the purposes set forth. 2nd, constructing the bottoms of vessels with corrugations extending from stem to stern, as set forth, which give strength to the hull, and a portion of which form the cavity or cavities above referred to. 3rd, the described combination of an inclined screw propeller with a hull, constructed as set forth. 4th, two or more rudders operating as set forth, in combination with the described longitudinal cavities in a ship's bottom."

No. 23,106. Robert Niven, of Gates, N.Y., for an "Improvement in potato diggers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the shoe or share G, endless screen H, and pendant or supplementary riddle N, with the frame A, and side plates D, sinuous slots C, and slotted levers R, operating conjointly, substantially as and for the purposes herein set forth."

No. 23,107. A. H. Nordyke, of Richmond, Ind., for a "Machine for printing the address on newspaper, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, first, the arrangement of an endless convey or A, for feeding the envelopes under the forms to receive the impressions and delivering the same after printing, in combination with a driving set wheel D, as herein above set forth. Second, I claim the two inclined tracks K and L, arranged one above the other, in such manner that the forms may be carried up the inclined track K, and delivered upon the inclined track L, and brought by their own gravity down said track, and under the pressure rollers

N, and from thence to the point of discharge, as herein described. Third, I claim the arrangement and combination of endless band *g*, catch *i*, and jointed track K, for taking the forms from the end of said track K, and delivering them upon the lower track L, all arranged and operating as described."

No. 23,108. Oscar S. Oaks, of South Rutland, N. Y., for an "Improvement in roofing cement."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment, in combination with the other substances herein specified, of the alkaline solution of shellac, and the sulphate of baryta, the whole being compounded substantially as and in about the proportions herein set forth."

No. 23,109, Anson Olcott, Lakeport, N. Y., for an "Improved rotary shingle machine."

"I make no claim to any of the parts of the machine, separately considered; but what I claim, and desire to secure by Letters Patent, is, the combination of guides *c*, c^1, springs *d*, d^1, connected therewith, slide *o*, reciprocated from the movement of the cutter wheel, and the single cutter K, the whole constructed, arranged, and operating substantially as described."

No. 23,110. Geo. T. Parry and Hampton W. Evans, of Philadelphia, Pa., for an "Improvement in governor for steam engines."

"We claim, and desire to secure by Letters Patent, one or more revolving weighted spring levers K, in combination with the sleeve I and the connections herein described, or their equivalents, between the said sleeve and levers, when the latter are hung to pins placed at such a distance from the centre round which they revolve, that the weights at the end of the levers shall move in the arc of a circle contained within or partially within the circle described by the said pins, as herein set forth, and for the purpose specified."

No. 23,111. Andrew Patterson, of Birmingham, Pa., for an "Improved churn."

"Disclaiming therefore all arrangements and devices which are not identical in principle, purpose, and mode of operation with those herein substantially described, I therefore claim and desire to secure by Letters Patent, the combination of the chamber *a* with the chamber *b*, when said chamber *b* serves the double purpose of a lid or covering for the cream in chamber *a*, and a frame for the dash wheel, driving wheel, and crank, substantially as described and set forth."

No. 23,112. John K. Peters, of New York, N. Y., for an "Improved ship's propeller."

"Having thus described my invention, I claim as new, and desire to secure by Letters Patent, the arrangement and combination of stops (*c*, *d*,) arm A, and blade C (more than one blade with the stops being combined with the arm A, when desired), all substantially as and for the purpose herein shown and described."

No. 23,113. Daniel Powers, of Philadelphia, Pa., for an "Improved lock."

"Having thus fully described my improved lock, what I claim and desire to secure by Letters Patent, is, the independent movable expanding and contracting fence, or its equivalent, substantially as above set forth. I also claim the union of the upper and lower halves thereof, as herein specified."

No. 23,114. Noah Pratt, of Nicholson, Pa., for an "Improved center board for vessels."

"What I claim as my invention, and desire to secure by Letters Patent, is, applying the center board and the appliances for operating the same in a movable box or curb, which is so fitted into a well-hole or a stationary curb built into the vessel as to be capable of being lifted out of said well-hole or curb with the center board and all its appliances, substantially as herein described."

No. 23,115. Daniel Ranck, of Intercourse, Pa., for an "Improvement in harvesters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the inclined planes H, and springs I, crank K, and connecting rod L, spindle or pivot E, sliding rake head R, and curved supports B, T, and C, when these several parts are arranged in the manner described for the purpose specified."

No. 23,116. Isaac Rulofson, of Penn-Yan, N. Y., for an "Improvement in ploughs."

"What I claim, and desire to secure by Letters Patent, is, the arrangement of beam A, standard B, landside strip D, share E, mould board C, and piece H, the whole being constructed and united as and for the purpose herein set forth."

No. 23,117. George E. Safford, of New York, N. Y., for an "Improved screw propeller."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the hub B, B, made in two discs with spiral or inclined slots to receive the floats when the floats are removably secured to the hub in the manner described, and the whole being constructed substantially as and for the purpose set forth."

No. 23,118. Emilius N. Scherr, of Philadelphia, Pa., for an "Automatic bell-ringer."

"What I claim, and desire to secure by Letters Patent, is, the herein described manner of automatically producing music from bells by the employment of adjustable pins *b* in the barrel A, actuated by clockwork or other motive power, and giving motion to the hammers D in any manner equivalent to that herein shown and described."

No. 23,119. D. P. Shaw and F. C. Brown, of Rochester, Ind., for an "Improvement in smut machine."

"We do not claim a curved blast spout K, nor do we claim separately any of the parts; but we do claim as new, and desire to secure by Letters Patent, the arrangement of the blast spouts K, L, with the scouring device enclosed within the cylinder I, and with the fan box C, in connection with the tubes J, J, substantially as shown, whereby the grain is subjected to a continual blast during the whole of its passage through the machine, to wit, prior to its advent into the cylinder I while being acted upon by the scourer, and after it leaves the scourer, substantially as described."

No. 23,120. William N. Slason, of South Reading, Mass., for an "Improved washing machine."

"I claim the arrangement and combination of the squeeze gratings or boards with the reciprocating dasher or wash or rinsing chamber. I also the application of the separate soap chamber to the wash or rinsing chamber, in manner and for the purpose set forth. I also claim the arrangement of the windlass with reference to the box A and brake C, and for the purpose as specified."

No. 23,121. Jacob Stear, of Smicksburgh, Pa., for an "Improvement in water wheels."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of the cylinder *i*, inclined ribs *k*, and disc L, with its buckets L^1, the whole constructed and operating essentially as herein-before described."

No. 23,122. Alexander Stephens, of Baltimore, Md., for an "Improvement in constructing wharves."

"I do not claim brace piles, nor the springing of piles into position, as new or novel; but I do claim as my invention, and desire to secure by Letters Patent, brace piles driven at a suitable angle, and having their heads so drawn back as to secure a purchase from the footing of the pile when combined with vertical piles and capping logs, substantially as before described."

No. 23,123. Robert L. Stewart and John Christopher, of Ligonier, Pa., and Ross Forward, of Somerset, Pa., for an "Improved hearth for working and refining iron."

"We do not wish to be understood as claiming the steam chamber and perforated hearth herein described, of any particular shape or dimensions as applied in the various ways set forth, but claim its application in any shape or size required for the purpose mentioned; and what we specifically claim, and desire to secure by Letters Patent, is, the steam chamber C, and perforated hearth B, as in the specifications and drawings described, for the uses and purposes therein set forth."

No. 23,124. G. W. B. Stoy, of Carlisle, Pa., for an "Improvement in apparatus for slaughtering hogs."

"I claim the arrangement of the virtical shafts E, Q lever G, and bar R, with the virtical rotating shaft N and the rectangular frame B, C, D, and O, P, the whole being constructed as and for the purpose herein set forth."

No. 23,125. N. G. Thorn, of Dayton, Ohio, for an "Improvement in mashing."

"I claim, first, the perforations in the pipes *e*, *e*, *e*, and *c*, attach'd to the hollow arms *d*, *d*, d^1, or any analogous device, by which water, steam, or air, is admitted into the mash tub in such manner as to distribute it equally, or nearly so, to all parts of the mash. 2nd, the spiral agitators, when attached to any revolving machinery, for the purposes set forth. And, 3rd, the surface agitators of whatever form when attached to revolving tubes, for the purpose set forth. And, 4th, the use of a self-packing joint applied to mash tubs, when used for the purpose set forth, in whatever form it may be constructed. And, 5th, the combination of the surface agitators with a stationary or revolving blast."

No. 23,126. Amos G. Thompson and Andrew J. Thompson, of Belleville, Ohio, for an "Improvement in corn planters."

"We claim the arrangement of spiral springs *a*, *a*, in combination with cross bar E, and straps *o*, *o*, for regulating the movement of the plungers B, B, substantially as specified."

No. 23,127. Jos. N. Treadwell, of Readin, Conn., for an "Improvement in machine for scouring and hulling grain."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a bed stone and runner for scouring and hulling grain, the grooves *c*, *c*, and rasping plates H, I, skirting said grooves, said parts being arranged and operating together substantially, as and for the purpose herein set forth."

No. 23,128. A. Van Trump, of Lancaster, Ohio, for an "Improvement in sugar cane mills."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination in a sugar cane mill of two or more intermediate small feed rollers C, C, with four or more large crushing rollers B, B, B^1, B^1, substantially as and for the purposes set forth."

No. 23,129. Matthias Vandenburg, of Newark, N.J., assignor to Franklin Berry, of Owego, N.Y., for an "Improvement in skates."

"What I claim and desire to secure by Letters Patent, is, first, an elastic front to confine the foot to the skate. Second, rendering the foot-board adjustable to feet of various widths by constructing it in sections."

No. 23,130. George Vogt, of Philadelphia, Pa., for an "Improvement in piano-fortes."

"What I claim, and desire to secure by Letters Patent, is, the employment of the herein-described rest and bridge, either separately or combined, when the same are constructed and operating substantially in manner and for the purpose set forth."

No. 23,131. Allexey W. Von Schmidt, of San Francisco, Cal., for an "Improved water-meter."

"I claim combining with the propeller B, the radial partitions or feathers *k*, *k*, and the reacting shutes *m*, *m*, said feathers and shutes being arranged and operating as herein set forth."

No. 23,132. Russell Warner, of Brattleboro', Vt., for an "Improvement in harvesters."

"What I claim as new, and desire to secure by Letters Patent, is, 1st, the circular cutters *q*, attached to bars *r*, at the lower ends of rotating shafts *k*, and having an independent rotating motion given them by means of the gearing *s*, *a* ×. 2nd, the combination of the cutters *q*, plates *n*, *p*, and snafts *k*, with or without the sharpeners *a* × or *c* ×, arranged as shown to operate as and for the purpose set forth."

No. 23,133. William H. White, of Garrettsvill, N.Y., for an "Improvement in horse rakes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the two levers A, C, when crossed diagonally and pivoted together at *d*, in combination with the turning rake head D, frame C, and seat B, B^1, substantially as and for the purposes set forth."

No. 23,134. John M. Whitney, of Bolton, Mass., for an "Improvement in ploughs."

"The arrangement of the hinged arms C, D, adjustable brace E, and standard A, with the wheel H, and plough beam G, the whole being constructed for operating substantially as and for the purpose herein described."

No. 23,135. John M. Whitney, of Bolton, Mass., for an "Improvement in cultivators."

"Having thus described the construction and operation of my improved horse hoe or cultivator, what I claim therein as new, and desire to secure by Letters Patent, is, the arrangement of the teeth *a*, adjustable mould boards D, frames A, A^1, and cross beam B, with the branched swivel bars L, and frame H, the whole being constructed as and for the purpose herein described."

No. 23,136. John E. Wootten, of Philadelphia, Pa., for an "Improved gauge cock."

"Having thus fully described the construction and operation of my improved gauge cock, what I claim, and desire to secure by Letters Patent, is, the arrangement of the tube A, *a*, in combination with the cam C, rod F, and valve E, for the purpose and in the manner herein set forth."

No. 23,137. Albert A. Wood, of New York, N.Y., for an "Improvement in valve gear."

"The particular improvement which constitutes my invention, and which I claim as having been originally and first invented by me, is, the combination of the links D and E, E^1, attached to the eccentric rod, and arranged with adjusting gear, as described, or in manner equivalent."

No. 23,138. Joel R. Bassett, of Cincinnati, O., assignor to himself and A. E. Bateman, of said Cincinnati, for an "Improvement in making bolts and rivets."

"What I claim as my invention, and desire to secure by Letters Patent, is, the die (A, A^1,) (*a*, *a*,) (*i*, *i*,) (g^1, g^1,) (*f*, f_1) and (*k*, *k*,) substantially as described for the purposes set forth."

No. 23,139. Franz Anton Lohage, of Unna, Prussia, assignor to Edmd. Leopold Benzon, of Boston, Mass., for an "Improvement in the manufacture of steel."

"What I claim as my invention, and desire to secure by Letters Patent, is, the new or improved art of manufacturing steel of any desired temper or hardness, according to the various purposes or uses for which the steel may be required, by arresting the decarbonization of the mass of metal in the furnace at certain points or stages thereof, ascertained and recognized by means of certain phenomena, or external indications, manifested by the material, substantially as described."

No. 23,140. Philemon Stewart, of New Lebanon, N. Y., assignor to the Auchampaugh Brothers, of said New Lebanon, for an "Improved cast iron fence post."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent as a new article of manufacture, is, a cast iron fence post, constructed with flanges to protect the ends of the fence rails against being split, as well as against moisture, and substantially in the manner herein described."

No. 23,141. David E. Paynter, of Philadelphia, Pa., assignor to himself and Israel M. Bissell, of said Philada., for an "Improvement in manufacture of precipitated sulphur."

"I do not claim broadly precipitating a boiled solution of sulphuret of calcium; but I claim and desire to secure by Letters Patent, manufacturing precipitated sulphur from the ashes resulting from the combustion of gypsum and coal dust, in the manner herein described, and for the purpose specified."

No. 23,142. James Jenkinson, of Williamsburgh, N. Y., assignor to himself and Emanuel Mandel, of said Williamsburgh, for an "Improvement in tempering steel springs."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, arranging the wires *c*, *c*, in such a manner, that by tying one end of each of the same to one of the arms of the wheel on which the coil is formed, and by extending the ends so tied down to the hub of the wheel, the loose ends of the wire serve to fasten the several rings of the coil, substantially as described."

No. 23,143. W. W. Hollman, of Eddyville, Ky., for an "Improved measuring faucet."

"Having fully described the construction and operation of my improved measure faucet, what I claim therein as new, and desire to secure by Letters Patent, is,—1st, In combination with a faucet piece, having an induction and eduction pipe, a receiving and variable measuring chamber, so constructed and arranged, that by partially rotating it within the said faucet pin the liquid will be alternately received and discharged through a port or ports, substantially as herein-before described. 2nd, Making the rod B polygonal, when used in combination with the variable measuring chamber and its piston, substantially as described, for the purposes set forth."

Re-issues.

Charles R. Edwards, of Niagara City, N. Y., for, &c.—Patented 8th July, 1856.—Re-issued 1st March, 1859.

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment of a single shaft, operated internally, and operating externally upon a window blind, when said shaft is made to effect the double purpose of operating both the blind and its slats; and this whether I construct and arrange the hinge and levers in the manner herein specified or not."

Gelston Sanford, of Poughkeepsie, N. Y., for, &c.—Patented 9th March, 1858.—Re-issued 1st March, 1859.

"Having thus fully described my improvement and the operation thereof, what I claim is, constructing a grinding mill with flat plates dressed on both sides, having a longitudinal reciprocating vertical and oscillating motion, in combination with flat stationary plates likewise dressed on both sides, the whole constructed and operated substantially as described. 2nd. I claim the notched form of the upper edges of the plates for the purpose preventing the mill from choking, and to facilitate the feeding of the article to be ground between the grinding surfaces."

Design.

Alen Beckers, of New York, N. Y., for a "Design for stereoscopic case."

"What I claim as new, and desire to secure by Letters Patent, is, forming a case A, with the columns B, the entablature C, and the lid D, arranged so as to form a new and ornamental design, in the manner herein described."

Additional Improvements.

John J. Croy, of Caledonia, Mo., for, &c.—Patented 3rd February, 1857.—Additional Improvement dated 1st March, 1859.

"What I claim as new, and desire to secure by Letters Patent, is, 1st, the adjustable gauge D, attached to the tube A, substantially as and for the purpose set forth. 2nd, the employment or use of the temper or set screws B, C, applied to the tube A, as and for the purpose set forth. 3rd, the gauges H, fitted in the bars F, F[1], of the clamp cutter head, all the above parts being arranged and operating as herein specified."

Henry W. Covert, of Rochester, N. Y., assignor to M. Briggs, of same place, for, &c.

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the disc D and center V, toothed or corrugated, substantially as represented, for the purpose of fastening them securely together; but I do not confine myself to any particular size or shape, or number of teeth, nor to any particular position on the disc or center."

William Riley, of Maddison, Miss., for, &c.—Patented 27th April, 1858.—Additional Improvement dated 1st March, 1859.

"What I claim as my improvement, and desire to secure by Letters Patent, is, the cover or shade *a*, the rim or front marked *e*, and the pan marked *h*, as described above."

List of Specifications, &c. published during the week ending 25th March, 1859.

No.	Price.	Subject-Matter.
		1858 (*Memorandum of Alteration.*)
545*	6*d.*	Lighting and ventilating.
1811	3*d.*	Compound for insulating electric telegraph wires, &c.
1858	1*s.* 11*d.*	Obtaining and applying motive power.
1891	9*d.*	Manufacture of air-tight bottles, jars, &c.
1892	3*d.*	Railway carriages.
1893	10*d.*	Machinery for cutting files.
1894	3*d.*	Manufacture of railway tyre bars, boiler plates, &c.
1896	6*d.*	Manufacture of alum.
1897	9*d.*	Syringe.
1898	4*d.*	Manufacture of iron and steel.
1900	4*d.*	Apparatus for submerging electric cables.
1901	8*d.*	Metallic stay busks.
1902	3*d.*	Funeral carriages.
1903	1*s.* 4*d.*	Apparatus for generating steam.
1904	6*d.*	Sewing machines.
1905	10*d.*	Circular looms or knitting frames.
1906	1*s.* 1*d.*	Machinery for combing and heckling fibrous materials.
1907	3*d.*	Purifying gases and liquids.
1908	3*d.*	Cruet and liqueur stands.
1909	3*d.*	Distillation of coal.
1910	3*d.*	Distillation of bituminous matters.
1911	3*d.*	Fire-arms, &c.
1912	3*d.*	Composition for rendering substances uninflammable.
1913	7*d.*	Reefing sails.
1914	10*d.*	Manufacture of umbrellas and parasols, &c.
1916	3*d.*	Electric telegraphs.
1917	3*d.*	Shirt.
1918	6*d.*	Windlasses.
1920	3*d.*	Boring instrument for mining, &c.
1922	3*d.*	Book slides or holders.
1923	9*d.*	Mounting band saws.
1924	4*d.*	Insulating telegraphic wires or conductors, &c.
1926	3*d.*	Machinery for preparing flax, wool, &c.
1930	3*d.*	Machinery for manufacturing saw backs.
1933	10*d.*	Obtaining, applying, and transmitting motive power.
1936	3*d.*	Telegraphs.
1939	5*d.*	Reading chairs, &c.
1940	5*d.*	Apparatus for regulating the flow of gas, &c.
1942	7*d.*	Wet gas meters.
1944	3*d.*	Purification of gas.
1946	3*d.*	Manufacture of glass, &c.
1950	9*d.*	Cupola furnaces.
1952	3*d.*	Manufacture of fancy moreens.
1962	3*d.*	Apparatus for sizing and drying woollen yarns.
1973	7*d.*	Mounting the driving bands of machinery in motion.
1975	3*d.*	Cleaning and treating cotton and woollen waste, &c.
2007	6*d.*	Vinous and fermented liquors.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

List of Printed Specifications of Patents enrolled under the Old Law.
(Including Surrenders and Disclaimers.)

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List of Printed Specifications of Patents—*continued.*

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Letters Patent

List of Printed Specifications of Patents—*continued.*

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806	0 3	875	0 6	943	0 5	1012	0 3
807	1 3	876	0 3	944	0 6	1013	0 3
808	0 3	877	0 6	945	0 3	1014	0 7
809	0 3	878	0 3	946	0 5	1015	0 3
810	0 3	879	0 6	947	0 3	1016	0 4
811	0 3	880	0 3	948	0 3	1017	0 3
812	0 6	881	0 3	949	0 7	1018	0 8
813	0 3	882	0 11	950	0 3	1019	0 3
814	0 3	883	0 3	951	1 0	1020	0 3
815	0 3	884	0 3	952	0 9	1021	0 6
816	0 3	885	0 3	953	0 3	1022	0 3
817	0 6	886	0 3	954	0 3	1023	1 10
818	0 3	887	0 4	955	0 3	1024	0 3
819	0 5	888	0 6	956	0 3	1025	0 8
820	0 3	889	0 4	957	0 10	1026	0 5
821	0 5	890	0 3	958	0 3	1027	0 3
822	0 3	891	0 3	959	0 3	1028	0 9
823	0 3	892	0 3	960	0 3	1029	0 3
824	0 3	893	0 3	961	0 6	1030	0 3
825	0 3	894	0 10	962	0 6	1031	0 3
826	0 3	895	0 6	963	0 8	1032	0 6
827	0 5	896	0 6	964	0 4	1033	0 3
828	0 3	897	0 8	965	0 3	1034	0 9
829	0 6	898	0 3	966	0 3	1035	0 3
830	0 3	899	0 3	967	0 3	1036	0 3
831	0 3	900	0 3	968	0 7	1037	0 3
832	0 3	901	0 3	969	0 3	1038	0 3
833	0 3	902	0 3	970	0 3	1039	0 3
834	0 3	903	0 5	971	0 3	1040	0 3
835	0 3	904	0 3	972	1 5	1041	0 6
836	0 6	905	0 4	973	0 3	1042	0 6
837	0 6	906	0 3	974	0 8	1043	0 3
838	0 5	907	0 3	975	0 6	1044	1 2
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840	0 3	909	0 3	977	0 3	1046	0 6
841	0 4	910	0 3	978	0 3	1047	0 3
842	0 3	911	0 4	979	0 3	1048	0 3
843	0 3	912	0 3	980	0 3	1049	0 3
844	0 3	913	0 3	981	0 3	1050	*not enrolled.*
845	0 3	913*	0 4	982	0 6	1051	0 9
846	0 2½	914	0 3	983	0 3	1052	0 3
847	0 3	915	0 4	984	0 3	1053	0 3
848	0 5	916	0 3	985	0 10	1054	0 3
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850	0 3	918	0 3	987	0 9	1056	0 3
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853	0 5	921	*not enrolled.*	990	0 3	1059	0 6
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855	0 5	923	1 2	992	0 3	1061	0 3
856	0 5	924	0 6	993	0 6	1062	0 3
857	*not enrolled.*	925	0 6	994	0 9	1063	0 2½
858	0 3	926	0 3	995	0 8	1064	0 3
859	0 6	927	0 3	996	0 3	1065	0 3
860	0 3	928	0 3	997	0 3	1066	1 0
861	0 3	929	0 6	998	0 3	1067	0 9
862	0 3	930	*not enrolled.*	999	0 6	1068	0 3
863	0 6	931	0 6	1000	0 3	1069	*not enrolled.*
864	1 2	932	0 5	1001	0 3	1070	0 3
865	0 10	933	*not enrolled.*	1002	0 5	1071	0 3
866	0 3	934	0 3	1003	0 5½	1072	0 6
867	0 3	935	0 3	1004	0 6	1073	1 3
868	0 3	936	0 3	1005	0 3	1074	0 3
869	0 5	937	0 3	1006	0 3	1075	0 5
870	0 3	938	0 3	1007	0 4	1076	0 3
871	*not enrolled.*	939	0 3	1008	0 3	1077	0 3
872	0 5	940	0 5	1009	0 6	1078	*not enrolled.*

List of Printed Specifications of Patents—*continued.*

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1080	0 5	1146	0 3	1215	0 3	1284	0 2½
1081	0 6	1147	0 8	1216	0 3	1285	0 5
1082 *not enrolled.*		1148	0 3	1217	0 3	1286	0 3
1083	0 6	1149	0 5	1218	0 5½	1287	0 3
1084	0 4	1150	0 3	1219 *not enrolled.*		1288	1 1
1085	0 3	1151	0 6	1220	0 3	1289	0 3
1086	0 6	1152	0 3	1221 *not enrolled.*		1290	0 3
1087	0 6	1153	0 7	1222	0 3	1291	0 3
1088	0 5	1154	1 2	1223	0 9	1292	0 3
1089	0 3	1155	0 3	1224 *not enrolled.*		1293	0 5
1090	0 6	1156	0 5	1225	0 3	1294	1 3
1091	0 3	1157	0 9	1226	0 9	1295	0 3
1092	0 3	1158	0 3	1227 *not enrolled.*		1296	0 3
1093	0 3	1159	0 3	1228	0 6	1297	0 3
1094	0 6	1160	0 6	1229	0 6	1298	0 3
1095	0 2½	1161	0 9	1230	0 11	1299	0 3
1096	0 6	1162	0 3	1231	0 3	1300	0 6
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1099	0 9	1166	0 3	1235	0 3	1304	0 6
1100	0 3	1167	0 3	1236	0 9	1305	0 6
1101	0 3	1168	0 6	1237	0 9	1306	0 10
1102	0 5	1169	0 7	1238	0 6	1307	0 6
1103	0 3	1170	0 4	1239	0 3	1308	1 0
1104	0 3	1171	0 7	1240	0 3	1309	0 7
1105	0 5	1172	0 9	1241	0 3	1310	0 3
1106 *not enrolled.*		1173	0 5½	1242	0 3	1311 *not enrolled.*	
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1108	0 9	1175	0 3	1244	0 6	1313	0 4
1109	0 3	1176	0 3	1245 *not enrolled.*		1314	0 4
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1121	0 3	1188	0 3	1257	0 3	1326 *not enrolled.*	
1122	0 3	1189	0 3	1258	0 6	1327	0 3
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1124*	0 4	1192	0 6	1261	0 3	1330	0 3
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1134	0 3	1202	0 3	1271	0 3	1340	0 3
1135	0 9	1203	0 3	1272	0 4	1341	0 3
1136	0 3	1204	0 3	1273 *not enrolled.*		1342	0 9
1137	0 3	1205	0 3	1274	0 6	1343	0 6
1138	0 3	1206	0 3	1275	0 3	1344	0 3
1139	0 6½	1207	0 4	1276	0 6	1345	0 7
1139*	0 4	1208	0 3	1277	0 3	1346	0 8
1140	0 3	1209	0 3	1278	0 3	1347	0 2½
1141	0 3	1210 *not enrolled.*		1279	0 3	1348	0 5
1142 *not enrolled.*		1211	0 9	1280 *not enrolled.*		1349	0 8
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List of Printed Specifications of Patents—*continued.*

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1355	0 5	1424	0 10	1493	0 4	1561	0 3
1356 *not enrolled.*		1425	0 3	1494	0 4	1562	0 3
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1365	0 10	1434	0 3	1502	0 3	1571	1 5
1366	0 4	1435	0 3	1503	0 3	1572	0 3
1367	0 3	1436	0 3	1504	1 2	1573	0 3
1368	0 11	1437	0 3	1505	0 3	1574	0 7
1369	0 3	1438	0 10	1506	0 8	1575	0 9
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1373	0 7	1442	0 3	1510	1 0	1579	0 5
1374 *not enrolled.*		1443	0 9	1511	0 8	1580	0 5
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1377	0 6	1446	0 8	1514	0 5	1583	0 9
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1384	0 3	1453	0 3	1521	0 3	1590	0 9
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1386	0 3	1455	0 4	1523	0 6	1592	0 6
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1388	0 5	1457	0 5	1525	0 10	1594	0 3
1389	0 5	1458 *not enrolled.*		1526	1 0	1595	0 7
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1393	0 5	1462	0 3	1530	0 3	1599	0 5
1394	0 9	1463	0 6	1531	0 3	1600 *not enrolled.*	
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1396	0 3	1465	0 3	1533	0 3	1602	0 6
1397	0 5	1466	0 3	1534	0 3	1603	0 5
1398	0 5	1467	0 6	1535	0 3	1604	1 0
1399	1 4	1468	0 3	1536	0 3	1605	0 8
1400	0 3	1469	0 6	1537	0 8	1606	0 3
1401	0 3	1470	0 5	1538	0 9	1607	0 9
1402	0 6	1471	0 3	1539	1 2	1608	0 3
1403	0 3	1472	0 3	1540	0 9	1609	0 3
1404	0 4	1473	0 3	1541	0 6	1610	0 10½
1405	0 5	1474	0 3	1542	0 6	1611	0 10
1406 *not enrolled.*		1475	0 3	1543	0 8	1612	0 3
1407	0 3	1476	0 3	1544	0 9	1613	0 7
1408	0 5	1477	0 5	1545	0 8	1614	0 5
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1411	0 7	1480	0 3	1548	0 6	1617	0 7
1412	0 7	1481	0 3	1549	0 3	1618	0 5
1413 *not enrolled.*		1482	0 3	1550	0 6	1619	0 10
1414	0 11	1483	0 5	1551	0 3	1620	0 6
1415	0 9	1484	0 9	1552	0 4	1621 *not enrolled.*	
1416	0 5	1485	0 6	1553	0 3	1622	0 3
1417	0 9	1486	0 6	1554	0 3	1623	0 6
1418	0 3	1487	0 3	1555	0 6	1624	0 3
1419	0 3	1488 *not enrolled.*		1556	0 3	1625	0 3
1420	0 3	1489	0 9	1557	0 3	1626	0 6

List of Printed Specifications of Patents—*continued.*

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1630	0 5	1699	0 6	1768	0 3	1837	0 4½
1631	0 8	1700	0 5	1769	0 3	1838	0 4½
1632	0 11	1701	0 10	1770	0 9	1839 *not enrolled.*	
1633	0 3	1702	1 7	1771	0 11	1840	0 3
1634 *not enrolled.*		1703	0 7	1772	0 9	1841	0 5
1635	1 3	1704	0 3	1773	0 6	1842	0 5
1636	0 5	1705	0 5	1774	0 3	1843	0 3
1637	0 6	1706	0 9	1775	0 3	1844	0 3
1638	0 3	1707	0 6½	1776	0 3	1845	0 3
1639	0 5½	1708	0 3	1777	0 6	1846 *not enrolled.*	
1640	0 6	1709	0 3	1778	0 11	1847	0 8
1641	0 3	1710	0 7	1779	0 3	1848	0 3
1642	0 8	1711	0 3	1780	0 6	1849	1 0
1643	0 8	1712	0 3	1781	0 3	1850	0 8
1644	0 5	1713	0 3	1782	0 3	1851	0 9
1645	0 6	1714	0 3	1783	0 10	1852	0 9
1646	0 3	1715	0 5	1784	0 9	1853	0 10
1647	0 5	1716	0 3	1785	0 3	1854	0 6
1648	0 3	1717	0 9	1786	0 8	1855	0 5
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1650	0 11	1719	0 3	1788	0 7	1857	0 6
1651	0 7	1720	0 9	1789	0 6	1858	0 3
1652	0 9	1721	0 3	1790	1 0	1859	0 4
1653	0 3	1722	0 3	1791	0 3	1860	0 11
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1658	0 3	1727	0 3	1796	0 3	1865	0 4½
1659	0 7	1728	0 6	1797	0 4	1866	0 9
1660	1 1	1729	0 3	1798	0 3	1867	0 6
1661	0 3	1730	1 0	1799	0 3	1868	0 6
1662	0 4	1731	1 0	1800	0 3	1869	0 3
1663	0 6	1732	1 6	1801	0 3	1870	0 9
1664	0 3	1733	0 3	1802	0 3	1871	1 4
1665	0 3	1734	0 4	1803	0 3	1872	0 5
1666	0 3	1735	0 3	1804	1 4	1873	0 5
1667	0 3	1736	0 4	1805	0 3	1874	0 3
1668	0 2½	1737	0 5	1806	0 3	1875	0 5
1669	0 6	1738	1 4	1807	1 5	1876	0 9
1670	0 3	1739	0 3	1808	0 6	1877	0 5
1671	0 3	1740	0 3	1809	0 11	1878	0 3
1672	0 5	1741	0 6	1810	0 3	1879	0 11
1673	0 11	1742	0 3	1811	0 9	1880	1 3
1674	0 6	1743	0 6	1812	0 8	1881	0 8
1675	0 10	1744	0 8	1813	0 3	1882	0 9
1676	0 5	1745	0 6	1814	0 9	1883	0 6
1677	0 5	1746	0 6	1815	0 6	1884	0 6
1678	0 10	1747	0 6	1816	0 3	1885	0 9
1679	0 5	1748	0 7	1817	0 8	1886	0 10
1680	0 6	1749	0 6	1818 *not enrolled.*		1887	1 0
1681	0 9	1750	0 8	1819	0 7	1888 *not enrolled.*	
1682	0 6	1751	0 3	1820	1 9	1889	0 9
1683	0 6	1752	0 5	1821	0 11	1890	0 9
1684	0 6	1753	0 6	1822	0 3	1891	0 3
1685	0 5	1754	0 3	1823	0 3	1892	0 5
1686	0 6	1755	0 6	1824	0 6	1893	0 4½
1687	0 3	1756	0 6	1825	1 5	1894	1 1
1688	0 10	1757	0 7	1826	0 6	1895	0 9
1689	0 4	1758	0 9	1827	0 10	1896	0 8
1690	0 6	1759	0 6	1828	0 8	1897	0 2½
1691	0 9	1760	0 9	1829	0 5	1898	0 3
1692	0 6	1761 *not enrolled.*		1830	0 6	1899	0 9
1693	0 3	1762	0 3	1831	0 6	1900	0 3
1694	0 2½	1763	0 4	1832	0 4	1901	0 3
1695	0 3	1764	0 11	1833	0 9	1902	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
1903	0 10	1972	0 3	2041	0 4½	2110	0 5
1904 *not enrolled.*		1973	0 6	2042	0 6½	2111	0 9
1905	0 4	1974	0 3	2043	0 6	2112	0 3
1906	0 5	1975	0 3	2044	0 7	2113	0 3
1907	0 6	1976	0 3	2045	0 9	2114	0 6
1908	0 5	1977	0 4	2046	0 6	2115	0 10
1909	0 4	1978	0 4½	2047	0 9	2116	0 9
1910	0 9	1979	0 6	2048	0 3	2117	0 3
1911	0 6	1980	0 7	2049	0 3	2118	0 6
1912	0 3	1981	0 4	2050	0 6	2119	0 7
1913	0 6	1982	0 11	2051	0 3	2120	0 3
1914	0 6	1983	0 5	2052	0 9	2121	0 3
1915	0 3	1984	0 6	2053	0 5	2122	0 7
1916	1 0	1985	0 9	2054	0 3	2123	0 7
1917	1 1	1986	0 5	2055	1 0	2124	0 6
1918	0 3	1987	0 3	2056	0 8	2125	0 6
1919	0 9	1988	0 10	2057	0 3	2126	1 0
1920	0 3	1989	0 6	2058	1 0	2127	2 11
1921	0 3	1990	0 6	2059	0 9	2128	0 6
1922	0 3	1991	1 4	2060	0 7	2129	0 5
1923	0 10	1992	0 3	2061	0 6	2130	0 4
1924	0 8	1993	0 6	2062	0 9	2131	0 6
1925	0 3	1994	2 7	2063	0 3	2132	0 11
1926	0 7	1995	0 7	2064	0 5	2133	0 8
1927	0 5	1996	0 4	2065	0 9	2134	0 3
1928	0 3	1997	0 5	2066	0 6	2135	0 5
1929	0 5	1998 *not enrolled.*		2067 *not enrolled.*		2136	0 6
1930	0 3	1999	0 3	2068	0 9	2137	0 3
1931	0 7	2000	0 5	2069	0 5	2138	0 3
1932	0 5	2001	1 11	2070	0 8	2139	2 0
1933	0 3	2002	0 5	2071	0 9	2140	1 2
1934	0 4	2003	0 5	2072	0 5½	2141	0 6
1935	0 3	2004	0 6	2073	0 3	2142	0 6
1936	0 6	2005	0 6	2074	0 4	2143	0 5
1937	0 6	2006	0 5	2075	0 4	2144	1 3
1938	0 8	2007	0 3	2076	0 7	2145	0 9
1939	1 0	2008	0 6	2077	1 10	2146	0 11
1940	0 6	2009	0 10	2078	0 6	2147	0 3
1941	0 6	2010	1 3	2079	0 3	2148	0 7
1942	0 6	2011	0 6	2080	0 4	2149	0 6
1943	0 5	2012	0 3	2081	0 9	2150	0 7
1944	0 6	2013	0 3	2082	0 3	2151	0 6½
1945	1 0	2014	0 3	2083	0 4	2152	0 10
1946	1 1	2015	0 4	2084	0 11	2153	0 8
1947	0 3	2016	1 3	2085	0 9	2154	0 4
1948	0 10	2017	0 6	2086	0 5	2155	0 9
1949	0 7	2018	0 10	2087	0 8	2156	0 9
1950	0 9	2019	0 3	2088	0 9	2157	0 7
1951	0 9½	2020	0 3	2089	0 3	2158	0 6
1952	0 10	2021	0 10	2090	0 3	2159	0 7
1953	0 3	2022	0 3	2091	0 3	2160	0 8
1954	0 3	2023	0 7	2092	0 9	2161	0 7
1955	0 10	2024	0 6	2093	0 3	2162	1 5
1956	0 6½	2025	0 3	2094	0 3	2163	0 6
1957	0 5	2026	0 4	2095	0 6	2164	1 7
1958	0 4	2027	0 5	2096	0 3	2165	1 9
1959	0 8	2028	0 9	2097	0 7	2166	0 6
1960	0 7	2029	0 7	2098	0 3	2167	0 8
1961	0 6	2030	0 6	2099	0 9	2168	0 3
1962	0 5	2031	0 6	2100	0 6	2169	0 6
1963	0 9	2032	0 5	2101	0 7	2170	0 9
1964	1 1	2033	0 3	2102	0 5	2171	0 9
1965	0 6	2034	0 7	2103	1 0	2172	0 10
1966	0 3	2035	0 5	2104	0 3	2173	0 5½
1967	1 1	2036	0 9	2105	0 8	2174	0 6
1968	0 3	2037	0 9	2106	0 3	2175	0 8
1969	0 3	2038	0 9	2107	0 6	2176	0 3
1970	1 3	2039	0 6	2108	1 0	2177	0 9
1971	0 10	2040	0 3	2109	1 2	2178	0 3½

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
2179	0 10	2248	0 9	2317	0 3	2386	0 8
2180	0 9	2249	0 6	2318	0 6	2387	0 5
2181	0 5	2250	0 3	2319	0 4	2388	*not enrolled.*
2182	0 10	2251	0 5	2320	0 6	2389	0 5
2183	1 0	2252	0 2½	2321	0 3	2390	0 3
2184	0 10	2253	0 5	2322	0 4	2391	0 10
2185	0 6	2254	0 11	2323	0 5	2392	0 3
2186	0 5	2255	0 3	2324	0 4½	2393	1 0
2187	0 5	2256	0 5	2325	0 8	2394	0 6
2188	0 3	2257	1 0	2326	0 10	2395	0 8
2189	0 3	2258	0 8	2327	0 9	2396	0 3
2190	2 10	2259	*not enrolled.*	2328	0 9	2397	0 9
2191	1 8	2260	0 5	2329	0 3	2398	1 1
2192	0 6	2261	1 1	2330	0 3	2399	0 3
2193	0 3	2262	0 3	2331	0 5	2400	0 3
2194	0 3	2263	0 6	2332	0 5	2401	0 3
2195	0 5	2264	0 8	2333	0 6	2402	0 5
2196	1 3	2265	1 0	2334	0 5	2403	0 3
2197	0 6	2266	1 3	2335	0 6	2404	0 2½
2198	1 0	2267	1 4	2336	0 3	2405	0 4
2199	0 3	2268	0 3	2337	0 5	2406	0 7
2200	0 7	2269	0 5	2338	1 0	2407	0 5
2201	0 5	2270	0 9	2339	0 6	2408	1 1
2202	0 7	2271	0 3	2340	0 10	2409	0 6
2203	0 10	2272	0 4	2341	0 5	2410	1 9
2204	0 6	2273	0 6	2342	0 8	2411	0 4
2205	0 6	2274	0 3	2343	0 9	2412	0 3
2206	0 6	2275	0 3	2344	0 9	2413	0 11
2207	0 11	2276	0 4	2345	0 6	2414	0 4
2208	0 6	2277	0 5	2346	0 7	2415	0 9
2209	0 3	2278	0 5	2347	0 6	2416	0 6
2210	0 6	2279	0 7	2348	0 3	2417	0 3
2211	0 4	2280	0 3	2349	0 3	2418	1 0
2212	0 4	2281	0 9	2350	0 9	2419	0 3
2213	0 3	2282	0 5	2351	0 7	2420	0 5
2214	0 6	2283	0 3	2352	0 6	2421	0 3
2215	1 2	2284	0 4	2353	0 5	2422	0 7
2216	1 0	2285	0 3	2354	0 3	2423	0 5
2217	0 3	2286	0 6	2355	0 3	2424	0 3
2218	0 4	2287	0 3	2356	0 9	2425	0 4
2219	0 8	2288	0 5	2357	0 6	2426	0 6
2220	2 3	2289	0 6	2358	0 7	2427	0 7
2221	0 3	2290	0 5	2359	0 11	2428	0 4½
2222	0 6	2291	0 3	2360	0 4½	2429	0 3
2223	0 8	2292	0 3	2361	0 5	2430	0 4
2224	0 4½	2293	0 4	2362	0 10	2431	1 2
2225	0 11	2294	1 10	2363	0 3	2432	0 3
2226	0 3	2295	0 3	2364	0 5	2433	*not enrolled.*
2227	0 8	2296	0 4	2365	0 3	2434	0 3
2228	0 9	2297	1 0	2366	0 3	2435	0 3
2229	0 6	2298	0 3	2367	0 3	2436	0 6½
2230	0 6	2299	0 10	2368	0 5	2437	1 0
2231	0 3	2300	0 7	2369	0 5	2438	0 7
2232	0 3	2301	0 8	2370	0 3	2439	0 4
2233	0 10	2302	0 5	2371	0 9	2440	0 3
2234	0 5	2303	0 3	2372	0 9	2441	0 3
2235	0 5	2304	0 7	2373	0 7	2442	0 3
2236	0 5	2305	0 10	2374	0 3	2443	0 6
2237	0 4	2306	0 3	2375	0 6	2444	0 5
2238	0 5	2307	0 6	2376	0 9	2445	0 7
2239	0 3	2308	0 3	2377	0 6	2446	0 3
2240	0 6	2309	0 5	2378	0 9	2447	0 6
2241	0 8	2310	0 3	2379	0 6	2448	0 5
2242	0 4	2311	0 4	2380	0 6	2449	0 4
2243	0 10	2312	0 3	2381	0 9	2450	0 3
2244	1 0	2313	1 11	2382	*not enrolled.*	2451	0 5
2245	0 6	2314	0 3	2383	0 5	2452	0 3
2246	*not enrolled.*	2315	0 3	2384	0 4	2453	0 7
2247	0 9	2316	0 6	2385	0 3	2454	0 4½

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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2455	0 7	2524	0 6	2592	0 6	2661	0 5
2456	0 3	2524*	0 10	2593	1 3	2662	0 5
2457	0 6	2525	0 8	2594	0 6	2663	0 3
2458	0 9	2526	0 6	2595	0 10	2664	0 4
2459 *not enrolled.*		2527	1 1	2596	0 6	2665	0 5
2460	0 6	2528	0 6	2597	0 3	2666	0 3
2461	0 2	2529	0 4	2598 *not enrolled.*		2667	0 3
2462	0 4	2530	0 6	2599	1 1	2668	0 6
2463	0 3	2531	0 10	2600	0 6	2669	0 9
2464	0 3	2532	0 7	2601	0 11	2670	0 3
2465	0 3	2533	0 3	2602	0 10	2671	0 3
2466	0 6½	2534 *not enrolled.*		2603 *not enrolled.*		2672	0 7
2467	0 10	2535	0 3	2604	0 6	2673	0 5
2468	0 6	2536	0 6	2605	0 3	2674	0 9
2469	0 6	2537	0 6	2606	0 8	2675	0 3
2470	0 3	2538	0 7	2607	0 6	2676	0 3
2471	0 5	2539	0 5	2608	0 6	2677	0 7
2472	0 6	2540	0 6	2609	0 3	2678	0 3
2473	0 6	2541	0 11	2610	0 5	2679	0 7
2474	0 5	2542	0 6	2611	0 8	2680	0 3
2475	0 5	2543	0 10	2612	1 5	2681	0 3
2476 *not enrolled.*		2544	0 6	2613	0 6	2682	0 11
2477	0 3	2545	0 3	2614	0 6	2683	0 5
2478	0 10	2546	0 7	2615	0 9	2684	0 10
2479	0 7	2547	0 3	2616	0 9	2685	0 4
2480	0 6	2548	0 6	2617	0 6	2686	0 3
2481	0 4	2549	0 4	2618	0 3	2687	0 3
2482	0 11	2550	0 4	2619	0 3	2688	0 3
2483	0 7	2551	0 6	2620	0 5	2689	0 9
2484	0 9	2552	0 3	2621	0 6	2690	0 6
2485	0 9	2553	1 2	2622	0 9	2691	0 6
2486 *not enrolled.*		2554	0 7	2623	0 5	2692	0 3½
2487	1 3	2555	0 3	2624	0 4	2693	0 9
2488	0 10	2556	0 6	2625	0 3	2694	0 3
2489	0 5	2557	0 3	2626	1 1	2695	0 9
2490	0 3	2558	0 11	2627	0 7	2696 *not enrolled.*	
2491 *not enrolled.*		2559	0 6	2628	0 5	2697	0 3
2492	0 3	2560	0 11	2629	0 8	2698	0 6
2493	1 1	2561	0 7	2630	0 6	2699	0 9
2494	0 6	2562	0 6	2631	0 4	2700	0 7
2495	0 5	2563	0 7	2632	0 9	2701 *not enrolled.*	
2496	0 3	2564	0 10	2633	0 8	2702	0 4
2497	0 3	2565	0 6	2634	0 3	2703	0 3
2498	0 3	2566	0 4½	2635	0 5	2704	0 3
2499	0 8	2567	0 7	2636	0 3	2705	0 3
2500	0 5	2568	0 3	2637	0 6	2706	0 3
2501	0 3	2569	0 8	2638	0 6	2707	0 3
2502	0 10	2570	0 7	2639	0 9	2708	0 3
2503	0 5	2571	1 4	2640	0 4	2709	0 2½
2504	1 2	2572	0 3	2641	0 4	2710	0 6
2505	0 6	2573	0 2½	2642	0 6	2711	0 10
2506	0 3	2574	0 10	2643	0 6	2712	0 6
2507	0 3	2575	0 3	2644	0 3	2713	0 8
2508	0 3	2576	1 2	2645	0 3	2714	0 4
2509	0 3	2577	0 6	2646	0 7	2715	0 3
2510	0 3	2578	0 3	2647	0 8	2716	0 6
2511	0 3	2579	0 6	2648	0 4	2717	0 3
2512	0 7	2580	0 3	2649	0 3	2718	0 11
2513	0 4	2581	0 7	2650	0 6	2719	0 3
2514	0 5	2582 *not enrolled.*		2651	0 5	2720	0 6
2515	0 10	2583	1 4	2652	0 4½	2721	0 3
2516	0 4	2584	0 5	2653	0 4	2722	0 4½
2517	0 6	2585	0 5	2654	3 3	2723	1 0
2518	1 2	2586	0 5	2655	0 6	2724	0 5
2519	0 6	2587	0 3	2656	0 3	2725	0 6
2520	1 8	2588	0 9	2657	0 11	2726	1 5
2521	0 5	2589	0 3	2658	0 3½	2727	0 7
2522	0 8	2590	0 3	2659	0 10	2728	0 6
2523	0 6	2591	0 3	2660 *not enrolled.*		2729	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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2730	0 3	2799	0 5	2868	0 7	2937	1 3
2731	0 3	2800	0 5	2869	0 3	2938	0 5
2732	0 8	2801	0 5	2870	0 3	2939	0 3
2733	0 3	2802	1 0	2871	0 6	2940	0 6
2734	0 3	2803	0 10½	2872	0 6	2941	0 3
2735	0 11	2804	0 10	2873	0 6	2942	0 3
2736	0 3	2805	0 10	2874	0 3	2943	0 9
2737	0 4	2806	0 3	2875	0 3	2944	0 7
2738	0 6	2807	0 6	2876	1 1	2945	0 6
2739	0 5	2808	0 11	2877	0 3½	2946	0 4
2740	0 3	2809	0 5	2878	0 6	2947	0 9
2741	0 7	2810	0 2½	2879	0 8	2948	0 5
2742	0 9	2811	0 5	2880	0 3	2949	0 3
2743	0 5	2812	0 3	2881	0 5	2950	0 6
2744	0 5½	2813	0 3	2882	0 6	2951	0 4
2745	0 3	2814	0 3	2883	1 1	2952	0 3
2746	0 8	2815	1 0	2884	0 3	2953	0 5
2747	0 10	2816	0 10	2885	0 2½	2954	0 3
2748	0 3	2817 *not enrolled.*		2886	0 5	2955	0 6
2749	0 3	2818	0 7	2887	0 6	2956	0 3
2750	0 5½	2819	0 7	2888	0 5	2957	0 9
2751	0 3	2820	0 7	2889	0 6	2958	0 8
2752	0 3	2821	0 6	2890	0 5	2959	0 6
2753	0 6	2822	0 9	2891	0 6	2960	0 5
2754	0 5	2823	0 5	2892	0 6	2961	0 3
2755	0 3	2824	0 5	2893	0 5	2962	0 3
2756	0 6	2825	0 4½	2894	0 6	2963	0 5
2757	0 3	2826	0 6	2895	0 5	2964	1 8
2758	0 3	2827	0 4	2896	0 3	2965	0 7
2759	0 5	2828	0 5	2897	0 4	2966	0 2½
2760	0 7	2829	0 5	2898	0 6	2967	0 3
2761	0 3	2830	0 5	2899	0 3	2968	1 0
2762	0 3	2831	0 3	2900	0 4	2969	0 5
2763	0 2½	2832	0 7	2901	0 3	2970	0 7
2764	0 3	2833	0 3	2902	0 4	2971	0 3
2765	0 3	2834	0 5	2903	0 5	2972	0 3
2766	2 0	2835	0 7	2904	0 5	2973	0 5
2767	0 3	2836	0 6	2905	0 5	2974	0 6
2768	0 5	2837	0 9	2906	0 6	2975	0 3
2769	5 0	2838	0 9	2907	0 6	2976	0 9
2770	0 3	2839	0 6	2908	0 6	2977	0 4
2771	0 10	2840	0 4	2909	0 3	2978	0 3
2772	0 5	2841	0 6	2910	0 6	2979	0 8
2773	0 3	2842	0 3	2911	0 5½	2980	0 5
2774	0 5	2843	0 6	2912	0 4	2981 *not enrolled.*	
2775	0 3	2844	0 9	2913	0 3	2982	0 6
2776	0 6	2845	0 5	2914	0 3	2983	0 5
2777	1 0	2846	0 6	2915	0 4	2984	0 5
2778	0 6	2847	0 5	2916	0 6	2985	0 4
2779	0 5	2848	0 8	2917	0 4½	2986	0 5
2780	0 8	2849	0 3	2918	0 5	2987	0 5
2781	0 3	2850	0 5	2919	0 3	2988	0 6
2782	1 1	2851	0 9	2920	0 5½	2989	0 3
2783	0 7	2852	0 9	2921	0 11	2990	0 6
2784	0 3	2853	0 6	2922	0 3	2991	0 5½
2785	0 3	2854	0 9	2923	0 3	2992	0 9
2786	0 3	2855	0 3	2924	0 10	2993	0 5
2787	0 10	2856	0 5	2925	0 7	2994	0 4
2788	1 2	2857	0 6	2926	0 6	2995	0 9
2789	0 5	2858	1 6	2927	0 3	2996	0 6
2790	0 6	2859	0 2½	2928	0 3	2997	0 9
2791	0 5	2860	0 3	2929	0 8	2998	0 3
2792	0 3	2861	0 9	2930	0 4	2999	0 3
2793	0 3	2862	0 5	2931	0 3	3000	0 6
2794	0 8	2863	0 4	2932	0 6½	3001	0 6
2795	0 6	2864	0 11	2933	0 6	3002	0 5
2796	0 3	2865	0 5½	2934	0 6	3003	0 3
2797	3 7	2866	0 3	2935	0 3	3004	0 6
2798	0 3	2867	0 10	2936	0 7	3005	0 6½

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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3006	1 0	3074	0 6	3142	0 3	3211	0 5
3007	0 6	3075	0 3	3143 *not enrolled.*		3212	0 5
3008	0 3	3076	0 3	3144	0 3	3213	0 5
3009	0 3	3077	0 3	3145	1 2	3214	0 3
3010 *not enrolled.*		3078	0 6	3146	0 6	3215	0 3
3011	0 9	3079	0 5	3147	0 6	3216	4 8
3012	0 5	3080	0 $2\frac{1}{2}$	3148	0 4	3217	0 5
3013	0 6	3081	0 3	3149	0 3	3218	0 6
3014 *not enrolled.*		3082	1 8	3150 *not enrolled.*		3219	0 3
3015	0 7	3083	0 6	3151	3 8	3220	0 3
3016 *not enrolled.*		3084	0 6	3152	1 4	3221	0 11
3017	0 5	3085	0 6	3153	0 7	3222	0 7
3018	0 5	3086	0 3	3154	0 3	3223 *not enrolled.*	
3019	0 6	3087	0 5	3155	0 $5\frac{1}{2}$	3224	1 0
3020	0 5	3088	0 9	3156	0 9	3225	0 3
3021	0 5	3089	0 6	3157	0 7	3226	0 7
3022	0 10	3090	0 8	3158	0 11	3227	0 3
3023	2 4	3091	0 3	3159	0 5	3228	0 5
3024	0 3	3092	0 5	3160	0 5	3229	0 3
3025	0 3	3093	0 3	3161 *not enrolled.*		3230	0 9
3026	0 10	3094	0 6	3162	0 6	3231	0 4
3027	1 8	3095	0 5	3163	0 7	3232	0 3
3028	0 $5\frac{1}{2}$	3096 *not enrolled.*		3164	0 11	3233	0 $4\frac{1}{2}$
3029	0 6	3097	0 3	3165	0 8	3234	0 3
3030	1 1	3098 *not enrolled.*		3166	0 3	3235	0 5
3031	0 3	3099	0 3	3167	0 9	3236	0 6
3032	0 $5\frac{1}{2}$	3100	0 3	3168	0 5	3237	0 5
3033	0 3	3101	0 6	3169	0 $6\frac{1}{2}$	3238	0 6
3034	0 5	3102	0 5	3170	1 1	3239	0 5
3035	0 7	3103	0 9	3171	0 5	3240	0 3
3036	0 5	3104	0 6	3172	0 3	3241	0 5
3037	0 11	3105	0 6	3173	0 3	3242	0 6
3038	0 3	3106	1 0	3174	0 5	3243 *not enrolled.*	
3039	1 9	3107	0 10	3175	0 5	3244	0 6
3040	0 5	3108	0 6	3176	0 6	3245	1 1
3041	0 6	3109	0 5	3177	0 3	3246	0 5
3042	0 5	3110	3 11	3178	0 3	3247	0 6
3043	0 3	3111	0 5	3179	0 6	3248	6 4
3044	0 5	3112 *not enrolled.*		3180	0 8	3249	0 3
3045	0 6	3113 *Surrender.*	0 3	3181	0 7	3250	1 8
3046	0 3	3113*	0 4	3182	0 5	3251	0 5
3047	0 6	3114	0 9	3183	0 7	3252	0 3
3048	0 5	3115	0 10	3184	0 5	3253	0 3
3049	1 1	3116	0 9	3185	0 6	3254	0 3
3050	0 9	3117	0 8	3186 *not enrolled.*		3255	0 5
3051	0 3	3118	0 5	3187	0 10	3256	0 6
3052	1 7	3119	3 11	3188	0 5	3257	0 8
3053	0 3	3120	0 6	3189	0 5	3258	0 10
3054	0 5	3121	0 6	3190	0 6	3259	0 7
3055	0 3	3122	0 $5\frac{1}{2}$	3191	1 5	3260	0 5
3056	1 0	3123	0 6	3192	0 9	3261	0 9
3057	0 5	3124	0 6	3193	0 6	3262	0 3
3058	0 3	3125	0 6	3194	0 7	3263	0 3
3059	0 5	3126	0 10	3195	0 6	3264	0 7
3060	0 6	3127	0 3	3196	0 $2\frac{1}{2}$	3265	0 3
3061	0 5	3128	0 3	3197	0 6	3266	0 5
3062	0 5	3129	0 3	3198	0 3	3267	0 $2\frac{1}{2}$
3063	0 3	3130	0 7	3199	0 3	3268	0 5
3064	0 10	3131	0 3	3200	0 4	3269	0 3
3065	0 3	3132	0 3	3201	1 1	3270	0 8
3066	0 6	3133	0 5	3202	0 3	3271	0 6
3067	0 8	3134	1 $2\frac{1}{2}$	3203	0 3	3272	0 7
3068	0 5	3135	0 5	3204	0 3	3273	1 2
3068*	2 0	3136	0 6	3205	0 3	3274	0 5
3069	0 5	3137	0 6	3206	0 3	3275	0 3
3070	0 3	3138	0 3	3207	0 3	3276	0 5
3071	1 4	3139	0 6	3208	0 3	3277	0 8
3072	0 3	3140	0 8	3209	0 6	3278	0 4
3073	0 5	3141	0 6	3210	0 5	3279	0 5

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
3280	0 3	3349	0 6	3418	0 4	3487	0 6
3281 *not enrolled.*		3350	0 6	3419	0 8	3488	0 3
3282	0 5	3351	0 3	3420	1 0	3489	0 6
3283	0 6	3352	0 5	3421	0 3	3490	0 5
3284	0 3	3353	0 3	3422	0 6	3491	0 3
3285	0 9	3354	0 7	3423	0 3	3492	0 3
3286	0 4½	3355	0 5	3424	0 3	3493	0 5
3287	0 6	3356	0 6	3425	0 9	3494 *not enrolled.*	
3288	0 5	3357	0 3	3426	0 5	3495	0 3
3289	0 7	3358	0 7	3427	0 6	3496	2 0
3290 *not enrolled.*		3359	0 3	3428	0 5	3497	0 6
3291	0 6	3360	0 5	3429	0 10	3498	2 4
3292	0 7	3361	0 3	3430	1 1	3499	0 6
3293	0 5	3362	1 4	3431	0 3	3500	0 6
3294	0 5	3363	0 3	3432	0 5	3501	0 5
3295	0 6	3364	0 6	3433	0 5	3502	0 3
3296 *not enrolled.*		3365	4 8	3434	3 2	3503	0 6
3297	0 5	3366	0 3	3435	0 3	3504	0 5
3298	0 3	3367	0 3	3436	0 3	3505	0 6
3299	0 9	3368	0 6	3437	0 2½	3506	0 9
3300	0 5	3369	0 9	3438	0 3	3507	0 3
3301	0 5	3370	0 5	3439 *not enrolled.*		3508	0 3
3302	0 6	3371	0 7	3440	0 6	3509	0 6
3303	0 9	3372	0 3	3441	0 8	3510	0 2½
3304	0 3	3373	0 4½	3442	0 3	3511	0 3
3305	0 7	3374	0 5	3443	1 0	3512	0 6
3306	0 4	3375	0 7	3444	0 10	3513	0 5
3307	0 3	3376	0 9	3445	0 3	3514 *not enrolled.*	
3308	0 4	3377	1 0	3446	0 5	3515	0 6
3309	1 5	3378	0 3	3447	0 5½	3516	0 6
3310	0 6	3379	0 3	3448	0 5	3517	0 5
3311	0 5	3380	0 6	3449	0 10	3518	0 9
3312	0 4	3381	0 3	3450	0 6	3519	0 3
3313	0 4	3382	0 7	3451	0 5	3520	0 6
3314	0 6	3383	0 6	3452	0 10	3521	0 3
3315	0 5	3384	0 3	3453	0 8	3522	0 3
3316	0 5	3385	0 7	3454	1 4	3523	0 9
3317	0 3	3386	0 6	3455	0 6	3524	1 5
3318	0 5	3387	0 6	3456 *not enrolled.*		3525	0 7
3319	0 10	3388	0 6	3457	0 3	3526	0 5
3320	0 6	3389 *not enrolled.*		3458	0 10	3527	0 5
3321	1 2	3390	0 3	3459	0 10	3528 *not enrolled.*	
3322	0 6	3391	0 6	3460	0 3	3529	0 9
3323	0 6	3392	0 3	3461	0 5	3530	0 5
3324	0 4	3393	0 3	3462	0 6	3531	0 3
3325	0 3	3394	0 3	3463	0 9	3532 *not enrolled.*	
3326	0 6	3395	0 5	3464	0 6	3533	0 3
3327	0 3	3396	0 6	3465	0 6	3534	0 5
3328 *not enrolled.*		3397	0 3	3466	0 6	3535	0 6
3329	0 5	3398	0 6	3467	0 6	3536	0 7
3330	0 6	3399	0 5	3468	0 4½	3537	0 5
3331	0 4	3400	0 4½	3469	0 3⅓	3538	0 3
3332	0 10	3401	0 6	3470	0 7	3539	0 3
3333	0 5	3402	0 10	3471	0 7	3540	0 3
3334	0 6	3403	0 5	3472	0 5	3541	0 4
3335	0 11	3404	0 9	3473	0 8	3542	0 5
3336	0 3	3405	0 3	3474	0 4	3543	4 5
3337	0 6	3406	0 3	3475	0 6	3544	1 0
3338	0 6	3407 *not enrolled.*		3476	0 10	3545	0 5
3339	0 6	3408	0 4	3477	0 9	3546	0 3
3340	0 6	3409	0 5	3478	0 5	3547 *not enrolled.*	
3341	0 3	3410	0 5	3479	0 5	3548	0 3
3342	0 5	3411	1 0	3480	0 3	3549	0 3
3343	0 7	3412	0 7	3481	0 5	3550	0 7
3344	0 6	3413	0 3	3482	1 3	3551	0 6
3345	0 6	3414	0 3	3483	0 3	3552	0 3
3346	0 3	3415	0 9	3484 *not enrolled.*		3553	0 10
3347	0 5	3416	0 6	3485	0 3	3554	0 5
3348	1 1	3417	0 9	3486	0 5	3555	1 8

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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3556	1 8	3625	0 8	3694	0 3	3763	0 5
3557	0 6	3626	0 5	3695	0 9	3764	0 6
3558	0 6½	3627	0 5	3696	0 6	3765	1 11
3559	0 6	3628	0 3	3697	0 5	3766	0 3
3560	0 3	3629	0 3	3698	0 3	3767	0 3
3561	0 3	3630 *not enrolled.*		3699	0 3	3768 *not enrolled.*	
3562	0 3	3631 *not enrolled.*		3700	0 7	3769	0 3
3563	0 3	3632	1 2	3701 *not enrolled.*		3770	0 6
3564	0 5	3633	0 10	3702	0 7	3771	0 5
3565	0 10½	3634	0 5	3703	0 3	3772	0 6
3566 *not enrolled.*		3635	0 3	3704 *not enrolled.*		3773	0 4½
3567	0 6	3636	0 9	3705	0 3	3774 *not enrolled.*	
3568	1 9	3637	0 3	3706	0 3	3775	0 5
3569	0 3	3638	0 6	3707	0 6	3776	0 4
3570	0 5	3639	0 9	3708	0 7	3777	1 3
3571	0 3	3640	0 6	3709	0 6	3778	1 1
3572	0 9	3641	0 6	3710	0 6	3779	0 3
3573	0 3	3642	0 5	3711	0 6	3780	0 3
3574	0 10	3643	1 2	3712 *not enrolled.*		3781	0 5
3575	0 6	3644	0 6	3713	0 5	3782	0 5
3576	0 4	3645	0 10	3714	0 8	3783	0 6
3577 *not enrolled.*		3646	0 3	3715	0 6	3784	2 0½
3578	0 9	3647	0 3	3716	0 3	3785	0 3
3579	0 5	3648	0 11	3717	0 3	3786 *not enrolled.*	
3580	1 2	3649	0 3	3718	0 3	3787	0 3
3581	0 5	3650	0 3	3719 *not enrolled.*		3788	0 5
3582	0 5	3651	0 3	3720	0 4	3789	0 5
3583	0 6	3652	0 8	3721	0 3	3790	0 7
3584	0 6	3653	0 5	3722	0 4½	3791	0 3
3585	0 3	3654	0 4	3723	0 8	3792	0 8
3586	0 9	3655	0 3	3724	0 3	3793	0 5
3587	0 3	3656	0 6	3725	0 9	3794	0 2½
3588	0 5½	3657	0 11	3726	0 9	3795	0 3
3589	0 8	3658	0 6	3727	0 3	3796	0 3
3590	0 4½	3659	0 3	3728	0 9	3797	0 7
3591	0 3	3660	0 3	3729	0 5	3798	2 1
3592	1 0	3661	0 7	3730	0 8	3799	0 5
3593	0 3	3662	1 8	3731	0 3	3800	0 3
3594	0 3	3663	0 3	3732	0 5	3801	0 8
3595	0 3	3664	0 9	3733	0 3	3802	0 5
3596 *not enrolled.*		3665	0 6	3734 *not enrolled.*		3803	0 6
3597	0 5	3666	0 3	3735	0 3	3804	1 5
3598	0 3	3667	0 9	3736	0 6	3805	0 6
3599	0 3½	3668	0 7	3737	0 6	3806	0 6
3600	0 3	3669	1 4	3738	0 5	3807	0 3
3601	0 3	3670	0 7	3739	0 7	3808	0 3
3602	2 9	3671	0 7	3740	0 4½	3808*	0 4
3603	0 3	3672	0 6	3741	0 6	3809	0 5
3604	0 7	3673	2 1	3742	0 3	3810	0 4
3605	0 3	3674	1 1	3743	0 10	3811	0 9
3606	0 8	3675	0 7	3744	0 6	3812	0 6
3607	0 5	3676	0 3	3745	0 5	3813	0 4½
3608	0 6	3677	0 5	3746	0 9	3814	0 3
3609	0 4	3678	0 6	3747	0 7	3815	0 6
3610	0 3	3679	0 8	3748	0 3	3816	0 11
3611	0 6	3680	0 3	3749	0 5	3817	1 2
3612	0 9	3681	0 6	3750	0 5	3818	0 6
3613	0 3	3682	0 3	3751	1 5	3819	0 6
3614	1 0	3683	0 11	3752	0 6	3820	0 3
3615	0 5	3684	0 3	3753	0 6	3821	0 10
3616	0 11	3685	0 3	3754	0 8	3822	0 6
3617	0 4½	3686	1 1	3755	0 5½	3823	0 6
3618	0 3	3687	0 5	3756 *not enrolled.*		3824	0 3
3619	0 6	3688	0 10	3757	2 1	3825	0 4
3620	0 3	3689	0 8	3758	0 8	3826	0 5
3621	0 5	3690	0 8	3759	0 6	3827	0 6
3622	0 3	3691	0 8	3760	0 11	3828	0 7½
3623	0 6	3692	0 3	3761	0 6	3829	0 6
3624	0 3	3693	0 9	3762	0 4	3830	0 6

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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3831	0 9	3900	0 6	3968	1 7	4037	5 0
3832	0 6	3901 *not enrolled.*		3969	0 3	4038	0 7
3833	0 6½	3902	0 3	3970	0 3	4039	0 7
3834	0 5	3903	0 6	3971	0 8	4040	0 4
3835 *not enrolled.*		3904	0 7	3972	0 5	4041	0 7
3836	0 5	3905	1 4	3973	1 1	4042	0 6
3837	0 2½	3906	0 5	3974	0 6	4043	0 5
3838	0 9	3907	0 5	3975	0 5	4044	0 5
3839	0 7	3908	0 6	3976	0 6	4045	0 3
3840	0 4½	3909	0 4	3977	0 2¼	4046	0 9
3841	1 5	3910	0 3	3978	0 4	4047	0 9
3842 *not enrolled.*		3911	0 9	3979	0 3	4048	0 3
3843	0 5	3912	0 3	3980	0 9	4049	0 4
3844	0 5½	3913	0 5	3981	0 9	4050	0 3
3845	0 3	3914	0 5	3982	0 5	4051	0 3
3846	0 5	3915	0 6	3983	1 0	4052	0 5
3847	0 4	3916	0 6	3984	0 3	4053	0 6
3848	0 9	3917	0 3	3985	0 7½	4054	0 4½
3849	0 5	3918	0 3	3986	0 5	4055 *not enrolled.*	
3850	0 10	3919	0 5	3987	0 5	4056	0 6
3851	0 9	3920	0 3	3988	0 3	4057	0 7
3852	0 10	3921	0 3	3989	0 3	4058	1 3
3853	0 3	3922	0 6	3990	0 6	4059	0 8
3854	0 11	3923	0 6	3991	0 9	4060	0 6
3855	0 7	3924 *not enrolled.*		3992	0 10	4061	0 6
3856	0 5	3925	0 3	3993	0 9	4062	0 6
3857	0 3	3926	0 6	3994	0 10	4063	3 9
3858	0 3	3927	0 8	3995	0 10	4064	0 4
3859	1 4	3928 *not enrolled.*		3996	0 6	4065	0 3
3860	0 5	3929	0 7	3997	0 6	4066	0 3
3861	0 3	3930	0 3	3998 *not enrolled.*		4067	0 10
3862	4 1	3931	0 5	3999	0 5	4068	1 0
3863	0 5	3932	0 3	4000	0 3	4069	0 3
3864	0 3	3933	0 3	4001	0 4	4070	0 4
3865	0 9	3934	0 5	4002	0 10	4071	0 6
3866	0 3	3935	0 6	4003	0 3	4072	0 4
3867	0 10	3936	0 3	4004	0 6	4073	0 7
3868	1 3	3937	0 4½	4005 *not enrolled.*		4074	0 3
3869	0 9	3938	0 7	4006 *not enrolled.*		4075	0 6
3870	0 3	3939	0 6	4007 *not enrolled.*		4076	0 7
3871	0 5	3940	0 5	4008	0 5	4077	0 3
3872 *not enrolled.*		3941	0 3	4009	0 3	4078	2 4
3873	0 6	3941*	0 4	4010	0 5	4079	0 10
3874	0 4	3942	0 4½	4011	0 6	4080	0 6
3875	0 7	3943	0 5	4012	0 3	4081 *not enrolled,*	
3876	0 6	3944	0 4	4013	0 9	4082	0 5
3877	0 5	3945	1 10	4014	0 9	4083	0 7
3878	0 7	3946 *not enrolled.*		4015	0 3	4084	0 5
3879	0 9	3947	0 5	4016	0 5	4085	0 3
3880	0 5	3948	0 5	4017	0 7	4086	0 7
3881	0 4	3949	0 7	4018	0 3	4087	0 3
3882	0 5	3950	0 3	4019	0 6	4088	0 6
3883	0 6	3951	1 0	4020	0 10	4089	0 9
3884	0 3	3952	0 3	4021	0 9	4090	0 7
3885	0 10	3953	1 1	4022	1 9	4091	0 7
3886	0 3	3954	0 3	4023 *not enrolled.*		4092	0 6
3887	0 6	3955	1 3	4024 *not enrolled.*		4093	0 3
3888 *not enrolled.*		3956	0 5	4025	0 3	4094	0 3
3889	0 7	3957	0 3	4026	1 0½	4095	0 6
3890	0 5	3958	0 4	4027	1 0	4096	0 5
3891	1 1	3959	0 4	4028	1 4	4097	0 3
3892	0 6	3960	0 3	4029	0 7	4098	0 9
3893	0 5	3961	0 9	4030	1 6	4099	0 8
3894	0 6	3962	0 3	4031	0 4½	4100	0 5
3895	0 3	3963	0 7	4032	0 4	4101	0 5
3896	0 3	3964	0 7	4033 *not enrolled.*		4102	0 3
3897	0 4	3965	0 11	4034	0 5	4103	0 5
3898	0 5	3966	0 7	4035	0 5	4104	0 8
3899	0 6	3967	0 5	4036	0 7	4105	0 4½

List of Printed Specifications of Patents—*continued*.

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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4107	0 6½	4176	0 7	4245	1 3	4314	0 10
4108	0 6	4177	0 6	4246	0 4	4315	0 10½
4109	0 8	4178	0 6	4247	0 3	4316	0 5
4110	0 7	4179	1 4	4248	0 3	4317	0 8
4111	0 3	4180	0 3	4249	0 7	4318	0 6
4112	0 3	4181 *not enrolled.*		4250	2 4	4319	0 5
4113	0 5	4182	0 3	4251	0 6	4320	0 6
4114	0 7	4183	0 5	4252	0 3	4321	0 5
4115	0 3	4184	0 5	4253	1 0	4322	0 5
4116	0 10	4185	0 9	4254	1 11	4323	0 4
4117	0 10	4186	0 10	4255	0 3	4324	0 10
4118	0 5	4187	0 6	4256	0 5	4325	0 7
4119	0 2½	4188	0 7	4257	0 9	4326	0 3
4120 *not enrolled.*		4189	0 7	4258	0 10	4327	0 3
4121	0 6	4190	1 0	4259	0 6	4328	0 7
4122	0 10	4191	0 5	4260	1 7	4329	1 1
4123	0 3	4192	1 10	4261	0 6	4330	0 3
4124 *not enrolled.*		4193	0 3	4262	0 3	4331	0 10
4125	0 7	4194	2 0	4263	0 3	4332	0 10
4126	3 8	4195	1 3	4264	0 3	4333	0 3
4127	0 6	4196	0 8	4265	0 3	4334	0 9
4128	0 5	4197	0 5	4266	1 1	4335	0 7
4129	1 9	4198	0 3	4267	1 1	4336	0 6½
4130	0 2½	4199	0 3	4268	0 6	4337	0 6
4131	0 3	4200	0 5	4269	0 3	4338	0 9
4132	0 7	4201	1 9	4270	1 4	4339	0 8
4133	0 9	4202	1 11	4271	0 3	4340	0 4
4134	0 3	4203	0 5	4272	6 6	4341	0 5
4135	0 5	4204	1 0	4273	1 1	4342	0 3
4136	0 4	4205	0 6	4274 *not enrolled.*		4343	0 10
4137	1 1	4206	0 5	4275	0 11	4344	0 5
4138	0 3	4207	1 3	4276	0 9	4345	0 7
4139	0 5	4208	0 5	4277	0 3	4346	0 5
4140	0 6	4209	0 11	4278	0 4	4347	0 3
4141	0 7	4210	0 5	4279	1 7	4348	0 6
4142	0 5	4211	0 3	4280	0 3	4349	1 0
4143	0 5	4212	0 6	4281 *not enrolled.*		4350	0 9
4144	0 4	4213	0 11	4282	0 6	4351	2 10
4145	0 3	4214	0 5	4283	0 10	4352	0 3
4146	0 3	4215	0 6	4284	0 3	4353	0 10
4147	0 6	4216	0 8	4285	0 5½	4354	0 6
4148	0 4	4217	0 7	4286	0 10	4355	0 6
4149	0 3	4218	0 4½	4287	0 3	4356	0 7
4150	0 4	4219	0 8	4288	0 3	4357	0 3
4151	0 9	4220	0 4	4289	0 5	4358	0 9
4152	2 4	4221	0 8	4290	0 3	4359	0 7
4153	0 6	4222	0 3	4291	0 6	4360	0 6
4154	2 5	4223	0 7	4292	0 5	4361	0 3
4155	0 7	4224	0 3	4293 *not enrolled.*		4362	0 6
4156	0 5	4225	0 6	4294	0 5	4363	0 6
4157	0 3	4226 *not enrolled.*		4295	0 5	4364	0 11
4158	0 10	4227	0 8	4296	0 5	4365	0 3
4159	0 5	4228	0 3	4297	0 6	4366	0 11
4160	0 9	4229	0 10	4298	0 9	4367	0 9
4161	0 5	4230	0 6	4299	0 3	4368	0 6
4162	0 11	4231	0 7	4300	0 7	4369	0 7
4163	0 6	4232	0 5	4301	0 3	4370	0 8
4164	0 8	4233	0 6	4302	0 11	4371	0 3
4165	0 3	4234	0 5	4303	0 3	4372	0 6
4166	0 4½	4235	0 5	4304	0 6	4373	0 6
4167	0 3	4236	0 5	4305	0 5	4374	0 7
4168	0 5	4237	0 3	4306	0 9	4375	1 2
4169	0 9	4238	0 6	4307	0 5	4376	0 7
4170	0 6	4239	0 5	4308	0 8	4377	0 5
4171	0 8	4240	0 8	4309	0 6	4378	0 6
4172 *not enrolled.*		4241	0 7	4310	0 8	4379	0 6
4173	0 5	4242	0 10	4311	0 5	4380	0 3
4174	1 3	4243	0 6	4312	0 6	4381	0 6

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
4382	0 3	4451	0 3	4520	0 5	4589	0 6½
4383	0 4	4452	0 9	4521	1 3	4590	0 5½
4384	0 3	4453	0 10	4522	0 6	4591	0 4
4385	0 6	4454	0 3	4523	0 5	4592	0 5
4386	0 7	4455	0 10	4524	0 3	4593	0 3
4387	0 7	4456 *not enrolled.*		4525	0 3	4594	0 3
4388	0 6	4457	0 10	4526	0 10	4595	0 5
4389	0 6	4458	1 6	4527	0 3	4596	0 3
4390	0 3	4459	0 7	4528 *not enrolled.*		4597	0 5
4391	0 7	4460	0 3	4529	1 6	4598	0 7
4392 *not enrolled.*		4461	0 5	4530	0 7	4599	0 10
4393	0 6	4462	0 6	4531	0 5	4600	1 1
4394	1 0	4463	1 0	4532	0 7	4601	0 7
4395	0 3	4464	1 1	4533 *not enrolled.*		4602	0 7
4396	0 5	4465 *not enrolled.*		4534	0 8	4603	0 7
4397	0 3	4466	0 9	4535	0 5	4604	0 6
4398	0 6	4467 *not enrolled.*		4536	0 6	4605	0 3
4399	0 9	4468	0 10	4537	0 7	4606	0 5
4400	4 2	4469	0 5	4538	0 5	4607	0 9
4401	0 3	4470	0 9	4539	1 2	4608	0 10
4402	0 7	4471	0 8	4540	0 5	4609	0 9
4403	0 5	4472	0 9	4541	0 3	4610	1 1
4404	0 3	4473 *not enrolled.*		4542	0 10	4611	0 4½
4405	0 11	4474	0 3	4543	0 10	4612 *not enrolled.*	
4406	0 3	4475	0 5	4544	1 1	4613	0 6
4407	0 10	4476	0 6	4545 *not enrolled.*		4614	0 3
4408	0 7	4477	0 10	4546	0 6	4615	1 0
4409	0 9	4478	0 9	4547	0 3	4616	0 5
4410	0 8	4479	0 9	4548	0 5	4617	0 6
4411	0 6	4480	0 11	4549	0 8	4618	1 1
4412	1 1	4481	0 5	4550	0 11	4619	0 9
4413	0 9	4482	1 1	4551	0 3	4620	0 5
4414	0 5	4483	0 9	4552	0 3	4621	0 8
4415	0 7	4484	0 8	4553	0 5	4622	0 3
4416	0 10	4485	1 4	4554 *not enrolled.*		4623	0 6
4417	0 3	4486	0 10	4555	0 6	4624	0 5
4418	1 0	4487	0 8	4556	0 6	4625	0 10
4419	0 4	4488	1 6	4557	0 5	4626	0 6
4420	0 6	4489	2 6	4558	0 10	4627	0 6
4421	0 3	4490	0 7	4559	0 3	4628	0 6
4422	0 7	4491	0 4½	4560	0 3	4629	0 5
4423	0 6	4492	0 6	4561	0 6	4630	1 10
4424	0 4	4493	0 3	4562	0 5	4631	1 4
4425 *not enrolled.*		4494	0 6	4563	0 3	4632	1 2
4426	0 5	4495	0 9	4564	1 1	4633	0 8
4427	0 5½	4496	0 4	4565	0 10	4634	0 3
4428	0 5	4497	0 8	4566	0 5	4635 *not enrolled.*	
4429	0 6	4498	0 7	4567	0 9	4636	0 3
4430	0 7	4499	0 5	4568	0 10	4637	0 10
4431	0 9	4500 *not enrolled.*		4569	0 5	4638	0 3
4432	0 5	4501	0 5	4570	1 2	4639	0 9
4433	1 1	4502	0 7	4571	0 3	4640	0 6
4434	0 4	4503	0 5	4572	0 3	4641	0 9
4435	0 3	4504	0 5	4573	0 9	4642	0 3
4436	0 3	4505	0 8	4574	0 10	4643	0 10
4437	0 7	4506 *not enrolled.*		4575	0 8	4644	0 5
4438	0 7	4507	1 1	4576	0 5	4645	0 8
4439	0 3	4508	0 7	4577	0 4½	4646	0 6
4440	0 3	4509	0 5	4578 *not enrolled.*		4647	0 6
4441	0 4	4510	0 6	4579	0 7	4648	0 4½
4442	1 6	4511	0 3	4580	0 6	4649	0 7
4443	1 1	4512	0 3	4581	0 7	4650	0 5
4444 *not enrolled.*		4513	0 6	4582	0 6	4651	0 10
4445	0 3	4514	0 3	4583	0 3	4652	1 5
4446	0 6	4515	0 3	4584	1 0	4653	0 10
4447	0 3	4516	0 9	4585	0 6	4654	0 5
4448 *not enrolled.*		4517	1 5	4586	0 3	4655	0 9
4449	0 5	4518	0 6	4587	0 5	4656	0 5
4450	1 3	4519	0 6	4588	0 9	4657	0 9

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
4658	0 3	4727	0 5½	4796	0 3	4865 *not enrolled.*	
4659	0 6	4728	1 1	4797	0 3	4866	0 3
4660	0 3	4729	0 5	4798	0 3	4867	0 10
4661	0 5	4730	1 4	4799	1 3	4868	0 3
4662	0 7	4731	0 9	4800	1 4	4869	0 7
4663	0 3	4732	0 8	4801	0 9	4870	0 6
4664	4 6	4733	0 6	4802	0 4	4871	0 5
4665	1 9	4734	0 10	4803	0 3	4872	0 6
4666	0 9	4735	0 6	4804	0 4	4873	0 6
4667	0 3	4736	0 6	4805	0 5	4874	1 8
4668	0 3	4737	0 3	4806	0 7	4875	2 5
4669	0 7	4738	0 9	4807	1 2	4876	0 6
4670	1 6	4739	0 3	4808	0 7	4877	0 3
4671	0 5	4740	0 8	4809	0 9	4878	0 5
4672	0 6	4741	0 8	4810	0 7	4879	0 5
4673	0 3	4742	0 7	4811	0 6	4880	0 6
4674	0 3	4743	0 5	4812	0 11	4881	0 6
4675	0 5	4744	0 4	4813	0 3	4882	0 5
4676	0 6	4745	0 6	4814	0 5	4883	0 5
4677	0 11	4746	0 10	4815	0 6	4884	0 6
4678	0 3	4747	0 7	4816	1 3	4885	0 9
4679	0 3	4748	0 9	4817	0 7	4886	0 3
4680	0 6	4749	0 10	4818	0 3	4887	0 9
4681	0 5	4750 *not enrolled.*		4819	0 9	4888	0 7
4682	1 2	4751	1 1	4820	1 4	4889	0 3
4683	1 7	4752	0 6	4821	0 10	4890	0 9
4684	0 9	4753	0 6	4822	0 3	4891	3 7
4685	0 5	4754	0 6	4823	0 5½	4892	0 5
4686	0 6	4755	0 6	4824	0 6	4893	0 5
4687	0 5	4756	1 9	4825	0 6	4894	0 6
4688	0 6	4757	1 4	4826	2 0	4895	1 0
4689 *not enrolled.*		4758	0 3	4827	0 7	4896 *not enrolled.*	
4690	1 1	4759	0 5	4828	0 9	4897	0 5
4691	0 7	4760	0 9	4829	0 7	4898	0 3
4692	0 9	4761	0 6	4830	0 6	4899	1 0
4693	0 6	4762	0 6	4831	0 6	4900	0 3
4694	0 10	4763	0 5	4832	1 4	4901	0 7
4695	0 7	4764	0 8	4833	0 9	4902	0 6
4696	0 5½	4765	0 5	4834	0 3	4903	1 4
4697	0 3	4766	0 5	4835	0 7	4904	0 6
4698	0 5	4767	1 0	4836	0 3	4905	1 7
4699	0 5	4768	0 3	4837	0 3	4906	0 5
4700	0 3	4769	0 7	4838	0 10	4907	0 6
4701	0 6	4770	0 5	4839	0 10	4908	0 3
4702	1 6	4771	2 5	4840	0 3	4909	0 3
4703	0 6	4772	0 3	4841	0 6	4910	0 5
4704 *not enrolled.*		4773	0 3	4842	1 1	4911	0 6
4705	0 2½	4774	0 5	4843	0 6	4912	0 6
4706	0 9	4775	0 4	4844	0 8	4913	0 6
4707	0 7	4776	0 3	4845	0 3	4914	0 11
4708	0 9	4777	0 7	4846	0 3	4915	0 3
4709	0 7	4778	0 10	4847	0 3	4916	0 4
4710	0 3	4779	1 4	4848	0 3	4917	0 3
4711	0 7	4780	1 5	4849	0 8	4918	0 11
4712	0 9	4781	0 8	4850	1 3	4919	1 3
4713	0 3	4782	0 6	4851	0 7	4920	1 3
4714	0 3	4783	1 2	4852 *not enrolled.*		4921 *not enrolled.*	
4715	0 5½	4784	0 6	4853	0 3½	4922	0 3
4716	0 3	4785	0 9	4854	1 4	4923	0 6½
4717	1 3	4786	0 6	4855	0 5	4924	0 7
4718 *not enrolled.*		4787	0 9	4856	0 9	4925	1 4
4719	0 5	4788	0 5	4857	0 10	4926	1 3
4720	0 6½	4789	0 3	4858	0 8	4927	0 6
4721	0 6	4790	0 6	4859	0 9	4928	1 0
4722	0 4	4791	0 6	4860	0 7	4929 *not enrolled.*	
4723	2 1	4792	0 5	4861	0 5½	4930 *not enrolled.*	
4724	0 2½	4793	0 6	4862	0 10	4931	0 6
4725	0 7	4794	0 6	4863	0 9	4932	0 3
4726	3 4	4795	1 1	4864	0 6	4933	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
4934	0 5	5003	0 3	5072	0 6	5141	0 5
4935	0 10	5004	0 9	5073	0 3	5142	0 6
4936	1 3	5005	0 7	5074	0 6	5143	1 0
4937	0 5	5006	0 10	5075	1 1	5144	*not enrolled.*
4938	0 3	5007	0 5	5076	*not enrolled.*	5145	0 6
4939	0 3	5008	0 5	5077	0 3	5146	0 7
4940	0 6	5009	0 8	5078	0 9	5147	0 5
4941	0 7	5010	0 9	5079	1 1	5148	0 5
4942	2 4	5011	1 8	5080	1 6	5149	0 5
4943	0 5	5012	0 3	5081	0 9	5150	0 8
4944	0 5	5013	0 7	5082	0 3	5151	0 3
4945	0 6	5014	0 6	5083	0 5	5152	0 3
4946	0 9	5015	1 0	5084	0 5	5153	0 11
4947	0 7	5016	5 4	5085	0 6	5154	0 7
4948	0 9	5017	0 7	5086	1 1	5155	0 8½
4949	0 6	5018	0 3	5087	0 7	5156	0 3
4950	0 6	5019	0 6	5088	0 7	5157	0 10
4951	1 5	5020	0 9	5089	0 5	5158	0 3
4952	0 6½	5021	0 3	5090	0 10	5159	0 6
4953	*not enrolled.*	5022	0 3	5091	0 3	5160	0 9
4954	0 6	5023	0 9	5092	0 9	5161	0 3
4955	2 5	5024	0 6	5093	0 11	5162	0 6
4956	0 3	5025	*not enrolled.*	5094	*not enrolled.*	5163	0 10
4957	0 7	5026	0 10½	5095	0 5	4164	*not enrolled.*
4958	1 2	5027	0 5	5096	0 8	5165	0 7
4959	0 10	5028	0 7	5097	0 6	5166	0 10
4960	0 4½	5029	0 9	5098	0 10	5167	0 10
4961	0 5	5030	1 0	5099	0 5½	5168	0 8
4962	0 6	5031	0 6	5100	0 7	5169	1 3
4963	0 6	5032	0 5	5101	0 5	5170	0 7
4964	0 7	5033	0 7½	5102	0 10	5171	0 6
4965	0 10	5034	1 1	5103	0 3	5172	0 6
4966	1 0	5035	0 9	5104	0 6	5173	0 3
4967	0 5	5036	1 1	5105	0 5	5174	*not enrolled.*
4968	0 3	5037	*not enrolled.*	5106	0 5½	5175	0 5½
4969	0 5	5038	0 9	5107	2 4	5176	0 6
4970	0 9	5039	0 3	5108	0 6	5177	1 4
4971	1 4	5040	0 5	5109	0 6	5178	0 3
4972	0 7	5041	0 3	5110	0 5	5179	0 7
4973	0 4	5042	0 4	5111	0 5	5180	0 3
4974	0 3	5043	0 5	5112	0 6	5181	1 3
4975	0 6	5044	0 5	5113	0 5	5182	0 9
4976	0 4	5045	0 4	5114	0 9	5183	0 3
4977	0 6	5046	0 5	5115	1 0	5184	0 6
4978	0 7	5047	0 6	5116	0 9	5185	0 7
4979	0 6	5048	0 10	5117	0 8	5186	0 9
4980	*not enrolled.*	5049	0 9	5118	0 5	5187	0 6
4981	1 0	5050	0 5	5119	2 1	5188	0 6
4982	0 10	5051	0 7	5120	0 3	5189	0 6
4983	0 7	5052	0 9	5121	*not enrolled.*	5190	0 6
4984	0 5	5053	0 6	5122	0 3	5191	1 0
4985	0 9	5054	0 4	5123	0 9	5192	1 0
4986	0 10	5055	0 4½	5124	0 5	5193	0 8
4987	0 7	5056	0 10	5125	1 7	5194	0 7
4988	1 2	5057	0 3	5126	0 8	5195	0 3
4989	0 3	5058	0 6	5127	0 3	5196	0 5
4990	0 6½	5059	0 7	5128	0 3	5197	0 11
4991	0 10	5060	1 10	5129	1 0	5198	1 0
4992	1 0	5061	0 9	5130	0 6	5199	1 8
4993	1 0	5062	0 3	5131	0 5	5200	*not enrolled.*
4994	0 3	5063	0 8	5132	0 8	5201	*not enrolled.*
4995	0 6	5064	0 10	5133	0 5	5202	*not enrolled.*
4996	0 8	5065	2 0	5134	1 5	5203	0 9
4997	0 6	5066	*not enrolled.*	5135	0 2½	5204	0 5
4998	0 9	5067	0 7	5136	0 6	5205	1 6
4999	0 3	5068	0 10	5137	0 3	5206	*not enrolled.*
5000	0 5	5069	1 7	5138	1 10	5207	0 5
5001	1 3	5070	0 6	5139	0 4	5208	0 4
5002	0 5	5071	0 3	5140	1 6	5209	1 0

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
5210	0 7	5279	0 10	5348	0 6	5417	1 1
5211	1 4	5280	0 10	5349 *not enrolled.*		5418	0 6
5212	0 9	5281	0 5	5350	1 6	5419	0 6
5213	1 5	5282	2 5	5351	0 10	5420	0 5
5214	0 7	5283	0 9	5352	0 9	5421	0 6½
5215	0 5	5284	0 6	5353	0 6	5422	0 5
5216	1 5	5285	0 3	5354	0 5	5423	1 1
5217	2 0	5286	1 1 3	5355	0 10	5424 *not enrolled.*	
5218	0 8	5287	0 6	5356 *not enrolled.*		5425	1 2
5219	0 10	5288	0 3	5357	0 3	5426	0 6
5220	0 5	5289	0 3	5358	0 5	5427	0 4
5221	0 6	5290	0 9	5359	0 5	5428	1 0
5222	0 6	5291	0 3	5360	0 7	5429	1 2
5223	0 6	5292 *not enrolled.*		5361	0 3	5430	0 3
5224	0 6	5293 *not enrolled.*		5362	0 3	5431	0 6
5225	0 3	5294	2 5	5363	0 5	5432	1 2
5226	0 9	5295	0 7	5364	0 3	5433	0 8
5227	0 5	5296	0 10	5365	0 9	5434	0 7
5228	0 6	5297	1 10	5366	0 5	5435	0 5
5229	0 10	5298	0 6	5367	0 9	5436	1 0
5230	0 7	5299	0 6	5368	0 10	5437	0 10
5231 *not enrolled.*		5300	1 4	5369	0 3	5438	0 8
5232	0 5	5301	0 5	5370	0 5	5439	0 5½
5233	0 7	5302	0 3	5371	0 3	5440	0 3
5234	1 1	5303	0 9	5372	1 5	5441	0 6
5235	0 6	5304	0 6	5373 *not enrolled.*		5442 *not enrolled.*	
5236	0 7	5305	0 3	5374	0 9	5443	0 9
5237	0 5	5306	0 8	5375	0 3	5444	0 7
5238	0 7	5307	0 3	5376	1 1	5445	0 5
5239	0 5	5308	0 10	5377	0 5	5446	0 4
5240	0 8	5309	4 5	5378	0 3	5447	0 3
5241 *not enrolled.*		5310 *not enrolled.*		5379	0 5½	5448	0 5
5242	0 6½	5311	0 11	5380	0 3	5449	0 3
5243	0 6	5312	0 6	5381	1 0	5450	0 10
5244	0 9	5313	0 6	5382	0 3	5451	0 6
5245	0 8	5314	0 6	5383	0 3	5452 *not enrolled.*	
5246	1 1	5315	0 8	5384	1 0	5453	0 6
5247	0 7	5316	2 7	5385	0 4	5454	0 7
5248	0 6	5317	0 4½	5386	0 3	5455	0 9
5249	0 5	5318	0 5	5387	0 3	5456	0 10
5250 *not enrolled.*		5319	0 7	5388	0 10	5457	0 6
5251	1 8	5320	0 3	5389	0 9	5458	0 6
5252	0 4	5321	0 6	5390	0 5	5459	0 11
5253	0 6	5322	0 5	5391	0 9	5460	2 7
5254	0 3	5323	0 5	5392	0 6	5461	0 7
5255	0 6	5324	0 10	5393	0 10	5462 *not enrolled.*	
5256 *not enrolled.*		5325	0 6	5394	0 3½	5463	0 3
5257	0 9	5326 *not enrolled.*		5395	0 7	5464	1 1
5258	0 3	5327	0 9	5396	0 3	5465	2 0
5259	0 3	5328	0 3	5397	0 5	5466	0 6
5260	0 10	5329	1 1	5398	0 5	5467	0 3
5261	0 5	5330	1 5	5399	0 3	5468	1 4
5262	1 0	5331	0 3	5400	2 6	5469	0 4
5263	0 3	5332 *not enrolled.*		5401	0 6	5470	0 6
5264	0 7	5333	0 8	5402	0 6	5471	0 3
5265	0 3	5334	0 10	5403	0 10	5472	0 4
5266	0 7	5335	0 3	5404	0 9	5473	3 1
5267	0 9	5336	0 10	5405	0 10	5474	0 5
5268	0 9	5337	0 6	5406	0 10	5475	0 5
5269	0 6	5338	0 3	5407	0 10	5476	0 3
5270	1 0	5339	0 5	5408	0 9	5477	1 0
5271	1 6	5340	0 3	5409	1 7	5478	0 4
5272	0 3	5341	0 3	5410	0 10	5479	1 5
5273	1 1	5342	0 3	5411	0 7	5480	2 7
5274	0 7	5343	0 9	5412	0 10	5481	0 8
5275	0 6	5344	0 10	5413	1 1	5482	0 6
5276	0 6	5345	0 4	5414	0 8	5483	0 5
5277	1 7	5346	0 10	5415	1 3	5484	0 9
5278	0 6	5347	0 3	5416	0 5½	5485	0 8

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No.	Price. s.	d.
5486	1	11
5487 *not enrolled.*		
5488 *not enrolled.*		
5489	0	6
5490	0	6
5491 *not enrolled.*		
5492	0	3
5493	0	5
5494	0	7
5495	0	3
5496	0	4
5497	0	9
5498	0	10
5499	0	5
5500	0	7
5501	0	7
5502	1	0
5503	0	6
5504	0	5
5505	0	7
5506	0	5
5507	1	3
5508	1	9
5509	0	9
5510	0	6
5511	0	5½
5512	0	5
5513	0	5
5514	0	10
5515	0	5
5516	0	7
5517	0	3
5518	0	10
5519	0	3
5520	0	4½
5521	0	6
5522	0	10
5523	0	7
5524	0	6
5525	0	6
5526	0	3
5527	0	3
5528	0	6
5529	0	11
5530	0	7
5531	1	0
5532	0	7
5533	0	5
5534	0	3
5535	0	7
5536	0	6
5537	0	3
5538	0	3
5539	0	5
5540	0	7
5541	1	1
5542	0	7
5543	1	10
5544	0	8
5545	0	4
5546	2	3
5547	0	6
5548	0	11
5549	0	5
5550	0	6
5551	0	3
5552	0	5
5553	0	6½
5554	1	9
5555	0	3
5556	0	5
5557	0	10
5558	0	6
5559	0	6
5560	0	9
5561	1	7
5562	0	6
5563	0	7
5564	0	6
5565	0	6
5566	0	7
5567	0	11
5568	0	3
5569	0	5
5570	0	4½
5571	0	6
5572	1	0
5573	0	8
5574	0	10
5575	0	6
5576	2	2
5577	1	5
5578	1	4
5579	0	6
5580	1	6
5581	1	8
5582	0	7
5583	1	3
5584	0	6
5585 *not enrolled.*		
5586	0	6
5587	0	8
5588	0	11
5589	1	3
5590	0	10
5591	1	1
5592	0	10
5593	0	7
5594	0	5
5595	0	7
5596	0	5
5597	0	6
5598	0	10
5599 *not enrolled.*		
5600	0	3
5601	0	5
5602	0	7
5603	0	6
5604	0	3
5605	1	8
5606	0	7
5607	0	5
5608	0	10
5609	0	6
5610	0	9
5611 *not enrolled.*		
5612	1	0
5613	0	5
5614	0	3
5615	0	4
5616	1	9
5617	1	3
5618	0	9
5619	0	6
5620	0	10
5621	0	4
5622	1	2
5623	0	3
5624	0	9
5625	0	10
5626	0	4
5627	0	7
5628	1	11
5629	0	8
5630	0	3
5631	0	11
5632	0	5
5633 *not enrolled.*		
5634	1	6
5635	0	10
5636	0	8
5637	0	10
5638	0	8
5639	1	6
5640	1	4
5641	0	5
5642	0	6
5643	0	3
5644	0	3
5645	0	6
5646	1	1
5647	0	9
5648	0	6
5649	0	6
5650	0	6
5651	0	3
5652	0	6
5653	0	3
5654	2	8
5655	0	8
5656	0	10
5657	0	10
5658	1	1
5659	1	9
5660	0	10
5661	0	5
5662	0	3
5663	0	6
5664	0	5
5665	0	4
5666	0	3
5667	0	9
5668	0	6
5669	0	6
5670	0	7
5671	0	9
5672	0	5
5673	0	10
5674	0	8
5675	0	3
5676	0	4
5677	0	10
5678	0	5
5679	0	9
5680	0	6
5681	0	9
5682	0	9
5683	0	3
5684	0	6
5685	0	5
5686	0	5
5687	1	0
5688	0	6
5689	1	0
5690	0	5
5691	0	3
5692	0	4
5693	0	3
5694 *not enrolled.*		
5695	0	8
5696	0	3
5697	0	7
5698	0	6
5699	0	9
5700	0	6
5701	0	3
5702	0	3
5703	3	2
5704	0	9
5705	0	5
5706	0	9
5707	0	6
5708	0	4½
5709 *not enrolled.*		
5710	0	8
5711	0	9
5712	0	7
5713	0	10
5714	0	6
5715	0	9
5716	0	10
5717	0	7
5718	0	7
5719	0	10
5720	0	8
5721	0	10
5722	0	10
5723	0	3
5724	1	4
5725	0	3
5726	0	5½
5727	0	8
5728	0	6
5729	0	3
5730	0	8
5731	0	11
5732	0	3
5733	0	10
5734	0	9
5735	0	6
5736	0	6
5737	0	8
5738 *not enrolled.*		
5739	0	5
5740	0	8
5741	0	9
5742	0	6
5743	0	5
5744	1	7
5745	0	8
5746 *not enrolled.*		
5747	0	10
5748	0	8
5749	0	4
5750	1	1
2751	0	7
5752	0	3
5753	0	3
5754	1	1
5755	1	2
5756	0	10
5757	0	7
5758	0	10
5759 *not enrolled.*		
5760	0	5
5761	0	5

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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5762	0 9	5831	3 3	5900	0 6	5969	2 4
5763	0 6	5832	0 7	5901	0 5	5970	0 4
5764	1 3	5833	0 8	5902	0 5	5971	0 10
5765	0 10	5834 *not enrolled.*		5903	0 9	5972	0 6
5766	0 11	5835	0 9	5904	0 3	5973	0 3
5767	0 4	5836	0 10	5905	0 9½	5974	0 6
5768	1 4	5837	0 10	5906 *not enrolled.*		5975	0 4
5769	0 5	5838	0 5½	5907	0 6	5976	0 5
5770	1 9	5839	0 4½	5908	0 5	5277	0 3
5771	0 3	5840	0 7	5909	2 9	5978	0 4½
5772	0 8	5841	0 10	5910	0 3	5979	0 6
5773	0 10	5842	0 3	5911 *not enrolled.*		5980	0 5
5774	0 3	5843	0 4	5912	0 9	5981	0 3
5775	0 3	5844	0 11	5913	0 7	5982	0 6
5776	1 11	5845	0 5½	5914	1 5	5983	1 1
5777	1 4	5846	0 4	5915	1 3	5984 *not enrolled.*	
5778	0 3	5847	0 7	5916	0 5	5985	2 4
5779	0 3	5848	0 7	5917	0 10	5985*	0 5
5780	1 1	5849	0 6	5918	0 4	5986	0 6
5781	0 3	5850	0 5	5919	0 3	5987	1 1
5782	0 3	5851	0 8	5920	1 1	5988	1 10
5783	0 9	5852	1 0	5921	0 10	5989	0 6½
5784 *not enrolled.*		5853	0 10	5922	0 6	5989*	0 4
5785	0 7	5854	0 9	5923 *not enrolled.*		5990	0 5½
5786	0 5	5855	0 5	5924	0 3	5991	1 3
5787	0 6	5856 *not enrolled.*		5925	0 10	5992	0 6
5788	2 8	5857	1 11	5926	0 10	5993	0 5
5789	0 5	5858	0 6	5927	0 9	5994	0 9
5790	1 4	5859 *not enrolled.*		5928	0 3	5995	0 8
5791	0 6	5860 *not enrolled.*		5929	0 11	5996	0 6
5792	0 9	5861	0 7	2930	0 6	5997	0 9
5793	0 6	5862	0 8	5931	0 6	5998	1 1
5794	0 3	5863	0 3	5932	1 1	5999	0 8
5795	0 6	5864	0 5½	5933	0 5	6000	0 6
5796	1 1	5865	0 8	5934	1 11	6001	1 2
5797	0 6	5866	0 10	5935	0 9	6002	0 3
5798	0 5	5867	0 7	5936	0 5	6002*	0 4
5799	0 8	5868	0 9	5937	0 10	6003	0 6
5800	0 8	5869	0 6	5938	2 5	6004	0 9
5801	0 9	5870	1 1	5939	2 8	6005	0 10
5802	0 10	5871	3 6	5940	0 9	6006	1 5
5803	0 11	5872	0 5	5941	0 9	6007	0 6
5804	1 10	5873	0 9	5942	1 0	6008	0 6
5805	1 4	5874	0 7	5943 *not enrolled.*		6009	0 4
5806	0 6	5875	0 9	5944	0 6	6010	0 7
5807	0 5	5876	0 3	5945	0 5	6011	0 3
5808	0 9	5877	0 3	5946	0 4	6012	0 6
5809	0 6	5878 *not enrolled.*		5947	0 6	6013	0 11
5810	0 7	5879	0 6	5948	0 9	6014	0 11
5811	0 5	5880	0 7	5949	0 10	6015	0 3
5812	0 6	5881	0 9	5950	0 4	6016	0 5
5813 *not enrolled.*		5882	0 11	5951	2 8	6017	0 3
5814	0 6	5883	0 6	5952	0 3	6018	0 10
5815	0 9	5884	0 4	5953	1 2	6019	0 5
5816	0 6	5885	0 5	5954	0 7	6020	0 8
5817	0 5	5886	0 10	5955	0 6	6021	0 5
5818	0 5	5887	0 6	5956	1 0	6022	0 5
5819	2 4	5888	0 5	5957	0 10	6023	0 8
5820	0 7	5889	0 9	5958	0 9	6024	0 5
5821	0 8	5890	0 3	5959	0 5	6025	0 10
5822	0 5	5891	0 9	5960	0 10	6026	1 11
5823 *not enrolled.*		5892	0 3	5961	0 10	6027	2 1
5824	0 6	5893	0 3	5962	0 7	6028	0 6
5825	0 7	5894	0 11	5963	0 3	6029	0 10
5826	3 0	5895	0 7	5964	0 5	6030	0 8
5827	0 5	5896	0 3	5965	0 8	6031	0 4
5828	0 10	5897	1 4	5966	0 6	6032	1 0
5829	0 3	5898	0 6	5967	1 1	6033	0 6
5830	1 4	5899	0 5	5968	0 6	6034	0 6

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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6035	0 6	6104	0 7	6171	0 6	6240	4 3
6036	2 0	6105	0 10	6172	0 10	6241	1 10
6037	2 3	6106	1 5	6173	1 3	6242	0 10
6038	1 3	6106*	0 3	6174 *not enrolled.*		6243	0 11
6039	0 6	6107	0 7	6175	0 6	6244	0 9
6040	0 5	6108	0 9	6176 *not enrolled.*		6245	1 3
6041	3 4	6109	0 6	6177	0 6	6246	0 9
6042	0 9	6110	0 9	6178	0 6	6247 *not enrolled.*	
6043	0 7	6111	0 7	6179	0 10	6248	0 3
6044	0 4	6112	0 11	6180	0 6	6249	0 3
6045	2 1	6113	0 9	6181	0 5	6250	0 9
6046	0 5½	6114	0 9	6182	0 4	6251	0 5
6047	0 6	6115	3 4	6183	1 7	6252	0 10
6048	0 3	6116	0 6	6184	0 5	6253	0 3
0049	0 7	6117	0 8	6185	1 7	6254	1 1
6050	0 9	6118	1 1	6186	0 6	6255	1 3
6051	0 8	6119	0 9	6187 *not enrolled.*		6256	0 3
6652	0 5	6120	0 6	6188	0 6	6257	1 4
6053	0 6½	6121	0 3	6189	1 8	6258	0 7½
6054	0 6	6122	0 5	6190	1 1	6259	0 7
6055	0 10	6123	0 6	6191	0 5	6260	0 3
6056	0 6	6124	1 3	6192	1 3	6261	0 8
6057	0 4	6125	1 0	6193	0 7	6262	0 6
6058	0 6	6126	1 3	6194	1 11	6263	0 7
6059	0 10	6127	0 9	6195	0 9	6264	0 5
6060	0 5	6128	0 11	6196	0 6½	6265	0 3
6061	0 9	6129	0 3	6197	2 2	6266	0 3
6062	0 5	6130	0 6	6198	0 3	6267	2 3
6063	1 1	6130*	0 3	6199	0 8	6268	0 4
6064 *not enrolled.*		6131	0 10	6200	2 5	6269	0 6
6065	1 5	6132	0 5	6201	0 9	6270	0 3
6066	0 10	6133	0 9	6202	0 3	6271	0 5
6067	1 0	6134	0 4	6203	0 10	6272	0 6
6068	0 9	9135	0 8	6204	2 8	6273	0 3
6069	0 6	6136 *not enrolled.*		6205	0 3	6274	0 6
6070	0 9	6137	1 6½	6206	0 6	6275	0 6
6071	0 5½	6138	0 5	6207	0 3	6276	0 6
6072	0 5	6139	0 6½	6208	4 2	6277	0 7
6073	0 6	6140	0 9	6209	0 9	6278	0 8
6074 *not enrolled.*		6141	0 6	6210	0 4	6279 *not enrolled.*	
6075	1 0	6142 *not enrolled.*		6211	0 8	6280	0 9
6076	0 3	6143	0 6	6212	0 6	6281	1 6
6077	1 0	6144	0 6	6213	0 11	6282	1 3
6078	0 6	6145 *not enrolled.*		6214	0 5	6283	0 5
6079	0 6	6146	1 0	6215	0 5	6284	0 7
6080	0 3	6147	1 0	6216	0 8	6285 *not enrolled.*	
6081	0 6	6148	0 6	6217	0 7	6286	0 9
6082	0 4	6149	1 3	6218 *not enrolled.*		6287	1 7
6083	0 5	6150	0 9	6219	0 8	6288	0 7
6084 *not enrolled.*		6151	0 6	6220	4 4	6289	0 10
6085	0 3	6152	0 8	6221	0 9	6290	0 7
0086	0 8	6153 *not enrolled.*		6222	0 11	6291	0 5
6087	0 6	6154	0 8	6223	0 7	6292	0 6
6088	0 10	6155	1 3	6224	0 3	6293 *not enrolled.*	
6089	0 3	6156	0 11	6225	0 9	6294	0 8
6090	0 6	6157 *not enrolled.*		6226	0 8	6295	1 9
6091	1 5	6158	0 5	6227 *not enrolled.*		6296	0 6
6092	0 10	6159	1 2½	6228	0 10	6297	2 0
6093 *not enrolled.*		6160	0 7	6229	1 8	6298	1 2
6094	0 6	6161	0 10	6230	0 11	6299	1 10
6095	0 11	6162	0 7	6231	4 5	6300	0 3
6096	0 3	6163	0 6	6232	4 8	6301	0 10
6097	0 5	6164	0 7	6233	0 8	6302	1 0
6098	2 2	6165	0 10	6234 *not enrolled.*		6303	0 10
6099	1 7	6166	0 11½	6235	0 8	6304	1 4
6100	0 9	6167	1 3	6236	0 7	6305	0 6
6101	0 9	6168	2 0	6237	0 6	6306	0 5
6102	0 10	6169	0 3	6238	0 7	6307	1 7
6103	1 4	6170	0 5	6239	1 5	6308	0 7

List of Specifications of Printed Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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6209	0 3	6377	1 6	6445	0 5	6514	0 5
6310	2 10	6378	0 9	6446	1 11	6515	1 4
6311	0 3	6379	0 3	6447	2 7	6516	0 8
6312	0 9	6380	0 6	6448	0 10	6517 *not enrolled.*	
6313	0 5	6381	0 6	6449	0 6	6518	1 1
6314	0 8	6382	5 8	6450	0 8	6519 *not enrolled.*	
6315 *not enrolled.*		6383	2 8	6451 *not enrolled.*		6520	0 6
6316	1 7	6084	0 7	6452	0 5	6521	0 6
6317	0 3	6385	0 6	6453	0 3	6522	0 11
6318	1 9	6386	0 5	6454	0 7	6523	1 1
6319 *not enrolled.*		6387	1 2	6455	1 2	6524	1 4
6320	0 5	6388	1 11	6456	0 6	6525	0 10
6321	0 10	6389	0 5	6457	1 1	6526	1 0
6322	1 0	6390	1 4	6458	0 9	6527	1 6
6323	0 7	6391	0 3	6459	0 10	6528	1 2
6324	0 3	6392	1 11	6460	0 9	6529	2 11
6325	0 3	6393	1 2	6461	0 8	6530	1 8
6326	0 5	6394	0 5½	6462	1 2	6531	1 11
6326*	0 6½	6395	0 6	6463	0 7	6532	1 0
6327	0 10	6396	1 11	6464	0 8	6533	0 3
6328	0 9	6397	4 0	6465	0 9	6534	0 6
6329	0 9	6398	1 6	6466	0 8	6535	0 8
6330	0 3	6399	1 9	6467	0 9	6536	1 4
6331	2 0	6400	0 6	6468	0 6	6537	0 9
6332	0 9	6401 *not enrolled.*		6469	2 3	6538	0 10
6333	0 3	6402	0 7	6470	0 9	6539	0 9
6334	0 4	6403 *not enrolled*		6471	0 6	6540	0 9
6335	0 3	6404	0 3	6472	0 10	6541	2 10
6336	0 3	6405	2 6	6473	0 3	6542	0 4
6337	0 10	6406	0 8	6474 *not enrolled.*		6543	0 5
6338	0 6	6407	0 5	6475	0 11	6544	1 1
6339	0 7	6408	0 9	6476	0 10	6545	1 3
6340	0 8	6409	1 2	6477	0 8	6546	1 10
6341	0 5	6410	1 5	6478	0 5	6547	1 4
6842 *not enrolled.*		6411	0 5	6479	1 5	6548	0 9
6343	2 8	6412	3 3	6480	0 10	6549	0 5
6344	2 3	6413 *not enrolled.*		6481 *not enrolled.*		6550 *not enrolled.*	
6345	0 8	6414	0 10	6482	0 10	6551	0 6
6346	0 5	6415	0 7	6483	0 5	6552	1 4
6347	0 3	6416	1 0	6484	1 5	6553	0 6
6348	1 0	6417	1 11	6485	0 6	6554	0 6½
6349	2 11	6418	1 0	6486	3 6	6555	0 6
6350	0 10	6419	0 6	6487	0 5	6556	1 0
6351	0 9	6420	0 7	6488 *not enrolled.*		6557	1 8
6352	0 7	6421	0 6	6489	0 8	6558	2 8
6353	1 4	6422	0 3	6490	0 4	6559	0 7
6354	1 7	6423	2 9	6491	0 4½	6560	1 4
6355	1 1	6424	0 5	6492	6 2	6561	1 1
6356	0 3	6425	0 11	6493 *not enrolled.*		6562	0 8
6357	1 10	6426	0 6	6494	1 9	6563 *not enrolled.*	
6358	0 10	6427	1 2	6495	0 3	6564	1 5
6359	1 1	6428	0 10	6496	0 4	6565	0 5
6360	0 6	6429	0 3	6497	0 3	6566	1 4
6361	1 11	6430	0 9	6498	0 9	6567	2 4
6362	0 7	6431	0 5	6499	0 6	6568	4 2
6363	0 5	6432	0 6	6500	2 5	6569 *not enrolled.*	
6364	0 10	6433	0 8	6501	0 3	6570	1 9
6365	0 6	6434	0 8	6502 *not enrolled.*		6571	0 5
6366	0 3	6435	1 4	6503	1 3	6572	0 5½
6367 *not enrolled.*		6436	0 8½	6504	0 9	6573	0 7
6368	0 5	6436*	0 3	6505	1 2	6574	1 6
6369	1 4	6437	0 9	6506	0 5	6575 *not enrolled.*	
6370	3 6	6438	2 2	6507	1 8	6576 *not enrolled.*	
6371	0 3	6439	0 3	6508	0 7	6577 *not enrolled.*	
6372 *not enrolled.*		6440	3 4	6509	0 7	6578 *not enrolled.*	
6373	0 5	6441 *not enrolled.*		6510	0 6	6579	7 4
6374	0 3	6442	0 3	6511	0 10	6580	0 3
6375	0 3	6443	0 6	6512	0 6	6581	0 5
6376	0 10	6444	6 2	6513	2 5	6582	0 9

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
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6584	0 9	6653	1 3	6722	1 9	6791	8 0
6585	1 1	6654	0 6	6723	0 9	6792	0 8
6586	0 10	6655	0 6	6724	0 3	6793	3 6
6587	0 10	6656	0 9	6725	1 7	6794	2 1
6588	0 11	6657	0 7	6726	1 1	6795	0 3
6589	0 3	6658	0 7	6727	0 5	6796 *not enrolled.*	
6590	0 11	6659	0 5	6728	0 10	6797	0 10
6591	1 1	6660	4 2	6729	0 6	6798	3 9
6592	0 6	6661	1 1	6730	0 8	6799	0 9
6593	1 11	6662	0 6	6731	0 7	6800	0 6
6594	0 5	6663	0 6	6732	0 6	6801	0 9
6595	0 3	6664	0 10	6733	1 3	6802 *not enrolled.*	
6596	0 3	6665	0 9	6734	0 3	6803	0 3
6597	0 3	6666 *not enrolled.*		6735	1 3	6804	1 5
6598	1 0	6667	0 8	6736	0 9	6805	0 5
6599	1 9	6668	0 5	6737	9 6	6806	0 9
6600	0 7	6669	4 2	6738	0 6	6807	0 7
6601	0 3	6670	1 5	3739	10 9	6808	1 6
6602	1 0	6671	0 3	6740	0 3	6809	0 11
6603	0 5	6672	0 10	6741	0 5	6810	0 7
6604	0 6	6673 *not enrolled.*		6742	1 10	6811	0 10
6605	1 1	6674	0 6	6743	0 10	6812	0 10
6606	0 10	6675	0 6½	6744	0 6	6813	1 10
6607	0 7	6676	1 4	6745	1 9	6814	0 3
6608	0 9	6677	0 7	6746	0 7	6815	0 7
6609	0 3	6678	0 7	6747 *not enrolled.*		6816	2 7
6610	0 10	6679	0 5	6748	3 10	6817	0 3
6611	1 0½	6680	0 3	6749	0 5	6818	0 3
6612	0 9	6681	0 5	6750	1 4	6819	0 6
5613	0 6	6682	1 1	6751	0 6	6820	0 5
6614 *not enrolled.*		6683	3 0	6752	1 4	6821 *not enrolled.*	
6615	0 5	6684	0 9	6753	2 3	6822	0 9
6616	2 11	6685	1 6	6754	0 3	6823	0 0
6617	3 3	6686	0 10	6755	0 9½	6824	0 3
6618	5 4	6687	0 10	6756	0 9	6825	0 5½
6619	1 10	6688	0 4	6757	1 9	6826	0 6½
6620	2 4	6689	1 2	6758	0 9	6827	0 9
6621	4 2	6690	1 10	6759	0 6	6828	0 6
6622	0 3	6691	0 10	6760	0 9	6829	0 5½
6623	0 6	6692	0 5	6761 *not enrolled.*		6830	0 8
6624	2 2	6693	0 8	6762	5 9	6331	0 7
6625 *not enrolled.*		6694	0 8	6763	1 0	3832	1 6
6626	7 10	6695	0 7	6764	6 8	3833	2 4
6627	0 10	6696	1 2	6765	0 9	6834	2 4
6628	1 4	6697	0 5	6766 *not enrolled.*		6835	2 1
6629	0 10	6698	0 5	6767	0 10	6836	0 11
6630	0 6	6699	1 4	6768	0 10	6837	0 4
6631	1 0	6700	0 9	6769	1 10	6838	0 5
6632	0 6	6701	0 10	6770	0 9	6839 *not enrolled.*	
6633	0 4½	6702	0 6	6771 *not enrolled.*		6840	1 1
6634	0 4	6703	0 10	6772	2 5	6841	5 10
6635	0 9	6704	0 9	6773	0 7	6842	0 7
6636	1 1	6705	0 6	6774	0 8	6843	0 11
6637 *not enrolled.*		6706	0 9	6775	1 7	6844	1 3
6638	0 7	6707	0 10	6776	0 6	6845	1 3
6639	1 8	6608	0 3	6777	0 9	6846	0 3
6640	3 0	6709	1 2	6778	1 4	6847	0 3
6641	0 7	6710 *not enrolled.*		6779	0 6	6848 *not enrolled.*	
6642	0 9	6711	0 3	6780	0 7	6849	0 4
6643	0 6	6712	0 11	6781	1 1	6850	3 3
6644	1 2	6713	2 1	6782 *not enrolled.*		6851	0 6
6645	0 10	6714	0 10	6783 *not enrolled.*		6852 *not enrolled.*	
6646	0 3	6715	0 3	6784	1 0	6853	0 3
6647	0 8	6716	0 7	6785	0 6	6854	30 8
6748	0 5	6717	5 9	6786	0 6	6855	0 5
6649	1 0	6718	0 10	6787	0 3	6856	0 6
6650	0 6	6719	0 9	6788	1 6	6857	0 6
6651	0 6	6720	0 6	6789	0 10	6858	0 8

List of Printed Specifications of Patents—*continued.*

No.	Price. s. d.
6859	0 10
6860	0 6
6861	2 3
6862	0 9
6863	0 10
6864 *not enrolled.*	
6865	0 3
6866	0 10
6867	0 6
6868	0 10
6869 *not enrolled.*	
6870	0 10
6871	6 6
6872	0 3½
6873	0 4
6874	0 10
6875	1 3
6876	1 2
6877	0 5
6878	1 2
6879	0 6
6880	0 10
6881	0 9
6882	0 6
6883	0 10
6884	0 4
6885	2 6
6886	0 6
6887	0 10
6888	0 6
6889	0 7
6890	0 3
6891	1 3
6892	0 8
6893	0 3
6894	0 4
6895	0 10
6896	1 7
6897	0 10
6898	7 0
6899	0 5
6900	1 2
6901	0 7
6902	0 10
6903	1 1
6904	0 9
6905 *not enrolled.*	
6906	0 3
6907	2 8
6908	6 0
6909	0 6½
6910	0 7
6911	1 3
6912	0 3
6913	0 3
6914 *not enrolled.*	
6915	1 9
6916	2 4
6917	2 8
6918	1 3
6919	0 6
6920	0 9
6921	10 2
6722	0 4
6923	2 2
6923*	0 3
6924	1 0
6925	0 7
6926	1 11
6927	1 1
6928	0 6
6929	0 5
6930	0 3
6931	2 4
6932 *not enrolled.*	
6933 *not enrolled.*	
6934	0 4
6935	0 5
6936	6 0
6937	1 6
6938	0 7
6939 *not enrolled.*	
6940	0 7
6641	1 0
6942	0 6
6943	0 8
6944	1 0
6945	0 3
6946	0 4
6947	0 3
6948	0 3
6949	0 9
6950	13 9
6951	0 10
6952	0 4
6953 *not enrolled.*	
6954	0 9
6955	0 11
6956	3 6
6957	0 6
6658	0 5
6959	1 4
6960	0 6
6961 *not enrolled.*	
6962	1 1
6963	1 3
6964	0 7
6965	0 3
6966 *not enrolled.*	
6967	0 10
6968	0 6
6969	1 1
6970	0 8
6971 *extension of* 4631.	
6972	0 5
6973	0 10
6974	0 10
6975	0 9
6976	1 1
6977	0 6
6978	1 3
6979	0 6
6980 *not enrolled.*	
6981	0 7
6982 *not enrolled.*	
6983	0 4
6984	1 6
6985	0 6
6986	0 6
6987	0 9
6988	0 8
6989	0 8
6990	1 1
6991	0 9
6992	0 5
6993	1 4
6994	0 9½
6995	0 10
6996	1 1
6997	0 4
6998	0 9
6999	1 1
7000	1 2
7001	0 3
7002	0 8
7003	0 10
7004	0 9
7005 *not enrolled.*	
7006	1 8
7007	0 5
7008	0 4
7009	0 8
7010	0 6
7011	0 10
7012	0 6
7013	0 3
7014	1 9
7015	0 3
7016	0 6
7017	0 5
7018	0 3
7019	1 4
7020	1 7
7021	0 10
7022	0 6
7023	1 4
7024 *not enrolled.*	
7025	0 10
7026	0 5
7027	0 9
7028	0 4
7029	0 3
7030	0 6
7031	0 9
7032	21 6
7033	0 5
7034	3 11
7035 *extension of* 4659	
7036	0 3
7037	1 1
7038	0 10
7039	1 1
7040	1 0
7041	0 5½
7042	0 3
7043	0 6
7044	0 5
7045	0 5
7046	0 4
7047	1 8
7048	0 9
7049	0 4
7050	0 4
7051	0 8
7052	0 8
7053	1 10
7054	0 11
7055	2 1
7056	0 9
7057 *not enrolled.*	
7058	1 10
7059	0 9
7060	0 3
7061	0 3
7062	1 1
7063	0 9
7064	14 10
7065	2 7
7066 *not enrolled.*	
7067	0 3
7068	0 9
7069	0 6
7070	0 5
7071	0 6
7072	3 2
7073	0 7
7074	0 8
7075	1 1
7076	0 3
7077 *not enrolled.*	
7078	0 5
7079	4 3
7080	1 4
7081	0 7
7082	1 3
7083	0 11
7084 *not enrolled.*	
7085	0 3
7086	0 6
7087	0 5
7088	1 0
7089 *not enrolled.*	
7090	2 1
7091	0 4
7092	0 7
7093	0 6
7094	0 8
7095 *not enrolled.*	
7096	0 3
7097	0 4
7098	0 7
7099 *not enrolled.*	
7100 *not enrolled.*	
7101 *not enrolled.*	
7102 *not enrolled.*	
7103	0 5
7104	0 7
7105	1 0
7106	1 6
7107	1 0
7108	0 9
7109	0 6
7110	1 0
7111	4 11
7112	0 5
7113	1 2
7114 *not enrolled.*	
7115	1 3
7116	0 10
7117	0 9
7118	0 7
7119	0 3
7120	1 9
7121	0 6
7122	1 0
7123	0 8
7124	2 0
7125	0 6
7126 *not enrolled.*	
7127	1 1
7128 *not enrolled.*	
7129	1 2
7130	1 2
7131	0 3
7132	0 6
7133	1 4
7134	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
7135	1 5	7204	2 3	7273	0 6	7342	0 6
7136	0 10	7205	0 7	7274 *not enrolled.*		7342*	0 3
7137	0 8	7206	0 8	7275	0 9	7343	0 9
7138 *not enrolled.*		7207	0 3	7276	0 4	7344	0 10
7139	0 4	7208	0 7	7277	0 6	7345	7 6
7140	0 9	7209	0 6	7278	0 3	7346 *extension of* 4780	
7141 *not enrolled.*		7210 *not enrolled.*		7279	2 0	7347	1 1
7142	0 4	7211	0 5	7280	0 10	7348	1 4
7143	4 4	7212	2 0	7281	0 3	7349 *not enrolled.*	
7144 *not enrolled.*		7213	2 10	7282 *not enrolled.*		7350	3 1
7145	1 1	7214 *not enrolled.*		7283 *not enrolled.*		7351	0 8
7146	1 8	7215	0 9	7284	0 10	7352	0 6
7147 *not enrolled.*		7216	0 9	7285 *not enrolled.*		7353 *not enrolled.*	
7148	0 6	7217 *not enrolled.*		7286	0 6½	7354 *not enrolled.*	
7149	0 11	7218	0 9	7287	0 5	7355	0 5
7150	0 8	7219	4 9	7288	0 6	7356	0 3
7151	0 9	7220	0 8	7289	0 7	7357	0 9
7152	1 3	7221	2 7	7290	3 7	7358	1 0
7153	0 10	7222 *not enrolled.*		7291	5 1	7359	0 10
7154	1 2	7223	0 4	7292	1 4	7360	0 3
7155	1 5	7224	1 1	7293	0 9	7361	0 6
7156	0 5	7225	1 5	7294	0 3	7362	3 5
7157	0 5	7226	1 5	7295	0 10	7363	6 5
7158	0 10	7227	0 5	7296	0 4	7364	0 8
7159 *not enrolled.*		7228	0 11	7297	1 4	7365	0 9
7160	0 3	7229	1 7	7298	0 6	7366	0 10
7161	0 9	7230	0 8	7299	0 8	7367 *not enrolled.*	
7162	1 4	7231	1 8	7300	0 6	7368	1 1
7163	2 7	7232	0 6	7301	1 1	7369	0 8
7164	0 4	7233	0 9	7302	0 6	7370	0 9
7165	1 8	7234	0 6	7303	0 10	7371	0 9
7166	0 9	7235 *not enrolled.*		7304	0 6	7372	1 2
7167	0 3	7236	2 11	7305	1 3	7373	1 10
7168	0 8	7237	0 9	7306	2 4	7374	2 5
7169	0 6	7238	0 6	7307	0 6	7375	0 3
7170	0 6	7239	0 9	7308	0 5	7376	0 10
7171 *not enrolled.*		7240	1 4	7309	1 0	7377	3 4
7172	1 8	7241	1 0	7310 *not enrolled.*		7378	1 2
7173	0 5	7242	0 9	7311	0 3	7379	0 6
7174 *not enrolled.*		7243	1 1	7312	0 6	7380	1 0
7175	0 6	7244	0 3	7313	0 4	7381 *not enrolled.*	
7176	0 9	7245	0 9	7314	0 9	7382 *not enrolled.*	
7177	1 1	7246	0 3	7315	1 1	7383	1 3
7178	2 4	7247	0 3	7316 *not enrolled.*		7383*	0 5
7179	0 3	7248	1 3	7317	0 10	7384 *extension of* 4851.	
7180	1 3	7249	0 3	7318	1 8	7385	0 9
7181 *not enrolled.*		7250	0 8	7319	0 3	7386	0 7
7182	0 5	7251 *not enrolled.*		7320	1 4	7387	0 5
7183	0 4	7252	0 10	7321	0 7	7388	1 4
7184	0 5	7253	1 2	7322 *not enrolled.*		7389	0 4
7185	0 10	7254 *not enrolled.*		7323	0 10	7390	2 9
7186 *not enrolled.*		7255 *not enrolled.*		7324	0 7	7391	1 1
7187	0 5	7256	0 7	7325	1 7	7392	0 6
7188	2 1	7257	1 6	7326	0 3	7393	1 9
7189	0 6	7258	0 10	7327	1 7	7394	0 11
7190	11 8	7259	1 5	7328	2 8	7395	0 4
7191	4 6	7260	1 4	7329 *not enrolled.*		7396	0 3
7192	0 9	7261	0 10	7330 *not enrolled.*		7397	1 8
7193 *not enrolled.*		7262	0 8	7331	1 5	7398	0 9
7194	0 3	7263	0 10	7332 *not enrolled.*		7399	1 1
7195	0 3	7264	0 3	7333	0 6	7400	1 10
7196	0 6	7265	0 10	7334 *not enrolled.*		7401	0 9
7197	0 6	7266	1 4	7335	0 6	7402	0 6
7198	0 3	7267	1 9	7336	0 10	7403	0 8
7199	1 10	7268	0 10	7337	2 8	7404	0 6
7200 *not enrolled.*		7269 *not enrolled.*		7338	0 3	7405	0 9
7201	0 3	7270	0 6	7339	3 3	7406	4 3
7202	0 10	7271	1 0	7340	0 10	7407	2 5
7203	0 10	7272	0 3	7341 *not enrolled.*		7408	0 3

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No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
7409	1 2	7478	0 10	7546	0 10	7614	2 4
7410	2 3	7479	1 9	7547	1 4	7615	1 2
7411	1 3	7480	0 6	7548	0 3	7616	0 9
7412 *not enrolled.*		7481	0 8	7549	0 3	7617	0 3
7413	0 4	7482	0 8	7550	0 8	7618	1 5
7414	0 3	7483	0 7	7551	1 1	7619	0 10
7415 *not enrolled.*		7484 *not enrolled.*		7552	0 4	7620	1 1
7416	0 4	7485	0 9	7553	0 7	7621	1 1
7417	1 4	7486	0 5	7554	2 8	7622	0 9
7418 *extension of* 4955.		7487	0 5	7555	0 10	7623	1 7
7419 *not enrolled.*		7488	1 8	7556	3 6	7624 *not enrolled.*	
7420 *not enrolled.*		7489	0 4	7557	1 7	7625	0 8
7421	0 7	7490	5 3	7558	0 6	7626	1 9
7422	0 10	7491	5 2	7559	0 10	7627	0 3
7423 *not enrolled.*		7492	0 5	7560	0 8	7628	1 1
7424	0 9	7493	0 10	7561	1 3	7629	0 8
7425	0 8	7494 *not enrolled.*		7562	1 0	7630	0 3
7426	1 3	7495	0 6	7562*	0 3	7631	0 9
7427	1 7	7496	0 4	7563 *not enrolled.*		7632	0 4
7428	0 6	7497	1 10	7564	1 1	7633	0 3
7429	1 9	7498	0 11	7565	1 10	7634	0 9
7430	0 5	7499	0 5	7566	0 8	7635	0 4
7431	0 6	7500	1 7	7567	1 3	7636	0 4
7432	0 3	7501	0 7	7568	0 9	7637	1 6
7433	0 8	7502	0 8	7569 *not enrolled.*		7638	8 0
7434	1 10	7503	0 9	7570	0 3	7639	0 3
7435	0 6	7504	0 3	7571	0 11½	7640	0 8
7436	0 11	7505	1 3	7572	1 2	7641	0 7
7437	3 8	7506	0 11	7573	0 3	7642	1 0
7438	1 0	7507	0 10	7574	0 5	7643	0 3
7439	0 11	7508	0 8	7575	0 6	7644	0 10
7440 *not enrolled.*		7509	1 4	7576 *not enrolled.*		7645	0 5
7441	4 9	7510	1 8	7577 *not enrolled.*		7646	0 10
7442	1 0	7511	0 3	7578	0 7	7647	1 3
7443	0 5	7511*	0 3	7579	0 10	7648	0 7
7444 *not enrolled.*		7512 *not enrolled.*		7580	0 5	7649 *not enrolled.*	
7445	1 0	7513	0 10	7581	1 0	7650	0 10
7446 *not enrolled.*		7514	0 8	7582	1 1½	7651	0 9
7447	1 1	7515	0 8	7583	0 10	7652	0 3
7448	0 5	7516 *not enrolled.*		7584	0 9	7653	0 10
7449	0 6	7517	0 9	7585	7 0	7654	0 3
7450	0 3	7518	0 10	7586	1 0	7655	0 9
7451	0 3	7519	0 9	7587	0 11	7656	1 4
7452	1 11	7520	3 3	7588	0 6	7656*	0 3
7453	1 3	7521	0 9	7589 *not enrolled.*		7657	0 9
7454	0 3	7522	0 6	7590	1 0	7658	0 10
7455	3 1	7523	1 0	7591	0 6	7659	0 11
7456	1 1	7524	0 8	7592	0 6	7660	0 3
7457	0 5	7525 *not enrolled.*		7593	2 0	7661	0 4
7458	0 9	7526	0 10	7594	1 1	7662	1 10
7459	0 6	7527	0 11	7595	0 10	7663	0 9
7460	0 9	7528	1 0	7596	1 4	7664 *not enrolled.*	
7461	1 2	7529	0 10½	7597	1 1	7665	1 3
7462	0 4	7530	0 9	7598	1 2	7666	0 7
7463	0 10	7531	0 4	7599	0 6	7667	0 9
7464	0 6	7532	0 9	7600	2 0	7668	1 0
7465	9 3	7533	1 3	7601	0 7	7669	0 10
7466	1 6	7534 *not enrolled.*		7602	1 1	7670	1 2
7467	2 4	7535	0 7	7603	1 0	7671	0 9
7468	0 4	7536	0 6	7604	0 4	7672	0 6
7469	0 9	7537	0 11	7605	0 10	7673	1 8
7470	3 6	7538	0 4	7606	0 11	7674	0 10
7471 *not enrolled.*		7539	0 9	7607	1 9	7675	1 2
7472	1 4½	7540	0 8	7608	1 4	7676	1 0
7473	3 9	7541	0 9	7609	0 3	7677	1 0
7474	0 3	7542	0 10	7610	0 9½	7678	0 5
7475	0 10	7543	0 3	7611	0 9	7679 *not enrolled.*	
7476	2 7	7544	0 9	7612	1 10	7680	0 8
7477	0 4	7545	3 8	7613 *not enrolled.*		7681	4 0

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
7682	0 10	7751 *not enrolled.*		7820	0 3	7889	0 5
7683	2 11	7752	0 6	7821	0 6	7890	0 10
7684	0 10	7753	0 4	7822	0 4	7891	0 6
7685	1 4	7754	1 11	7823	0 6	7892	0 6
7686	0 4	7755	1 2	7824	2 0	7893	0 6
7687	0 10	7756	0 3	7825	1 6	7894	1 4
7688	1 8	7757	1 5	7826	2 6	7895	0 4
7689	1 0	7758	1 8	7827	0 3	7896	1 7
7690	0 5	7759	1 1½	7828	0 9	7897	1 0
7691	0 10	7760	0 3	7829	1 2	7898	1 8
7692	0 9	7761	0 6	7830	0 3	7899	0 10
7693	0 3	7762	0 3	7831	0 4	7900	0 6
7694	0 8	7763	2 3	7832	0 3	7901	4 7
7695	0 7	7764	1 1	7833	0 10	7902	0 7
7696	0 7	7765	0 10	7834	0 5	7903	1 7
7697	0 7	7766	1 1	7835	0 6	7904	1 8
7698 *not enrolled.*		7767 *not enrolled.*		7836	1 8	7905	0 8
7699	0 10	7768	0 6	7837	3 0	7906	0 6
7700	0 5	7769	0 3	7838	0 6	7907	0 6
7701	0 6	7770	0 3	7839	0 3	7908	1 0
7702	2 7	7771	0 4	7840	1 4	7909	0 7
7703 *not enrolled.*		7772	0 3	7841	0 8	7910	0 6
7704 *not enrolled.*		7773	0 8	7842	1 1	7911	0 10
7705	1 9	7774	0 5½	7843	0 9	7912	0 6
7706	0 6	7775	0 6	7844	0 9	7913	0 9
7707	1 4	7776	0 7	7845	1 7	7914	0 3
7708	0 3	7777	0 8	7846	1 10	7915	0 11
7709	0 10	7778	0 9	7847	1 1	7916	0 9
7710	0 9	7779	0 3	7848	1 7	7917	0 9
7711	0 3	7780	1 9	7849	1 0	7918	2 1
7712	0 6½	7781	0 4	7850	0 6	7919 *extension of* 5063.	
7713	0 4	7782	0 11	7851	1 6	7920	0 10
7714	0 6	7783	0 5	7852	0 9	7921	0 9
7715 *not enrolled.*		7784	0 10	7853	0 5	7922 *not enrolled.*	
7716	0 6	7785	0 7	7854	1 5	7923	0 8
7717	1 0	7786	0 3	7855	0 10	7924	0 6
7718	0 9	7787	0 3	7856	0 4	7925 *not enrolled.*	
7719	1 6	7788	1 7	7857	0 9	7926	4 4
7720	0 4	7789	0 6	7858	0 9	7927	1 3
7721	1 1	7790	0 9	7859 *not enrolled.*		7928	0 6
7722	0 3	7791	0 6	7860	0 3	7929	1 0
7723	0 9	7792	3 8	7861	2 3	7930	0 3
7724	0 10	7793	0 3	7862	1 8	7931	0 6
7725 *not enrolled.*		7794	0 4	7863	0 5	7932	0 7
7726	0 7	7795	1 3	7864	0 3	7933	0 4
7727	0 4	7796 *not enrolled.*		7865	0 3	7934	1 5
7728 *not enrolled.*		7797	1 4	7866	1 6	7935	0 10
7729	0 7	7798	0 6	7867	0 9	7936	0 11
7730	1 8	7799	0 9	7868	0 7	7937	3 8
7731	0 5	7800	0 7	7869	0 7	7938	1 8
7732	0 10	7801 *not enrolled.*		7870	0 10	7939	0 7
7733	3 4	7802	0 6	7871	0 10	7940	0 9
7734	1 0	7803 *not enrolled.*		7872	0 10	7941	1 6
7735	0 8	7804	1 10	7873	0 3	7942	0 3
7736	0 7	7805	1 1	7874	1 1	7943	0 9
7737	0 11	7806	0 9	7875 *not enrolled.*		7944	0 5
7738	0 10	7807	0 5	7876	0 8	7945	0 4
7739	3 2	7808	1 1	7877	0 3	7946	0 6
7740	4 4	7809	3 7	7878	0 6	7947	0 8
7741	0 4	7810	0 10	7879	0 4	7948 *not enrolled.*	
7742	0 4	7811	0 7	7880	0 3	7949	1 0
7743	0 7	7812	0 10	7881 *not enrolled.*		7950	0 3
7744	0 7	7813 *not enrolled.*		7882	1 5	7951	0 7
7745	1 3	7814 *not enrolled.*		7883	0 3	7952 *not enrolled.*	
7746 *not enrolled.*		7815	0 10	7884	2 5	7953 *not enrolled.*	
7747	0 3	7816	0 10	7885 *not enrolled.*		7954	0 6
7748	0 3	7817 *not enrolled.*		7886	0 10	7955	0 6
7749	0 6	7818	6 0	7887	0 6	7956	1 4
7750	0 10	7819 *not enrolled.*		7888	1 1	7957	0 6

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
7958	1 3	8027	0 6	8096	0 5	8165	0 6
7959	0 7	8028 *extension of* 5154.		8097	0 7	8166	0 10
7960	1 3	8029	0 3	8098	0 11	8167 *not enrolled.*	
7961	0 6	8030	0 8	8099	1 0	8168 *extension of* 5226.	
7962 *not enrolled.*		8031	0 10	8100	1 5	8169	0 7
7963	0 5	8032	0 3	8101	0 7	8170	0 5
7964	0 5	8033	0 6	8102	0 8	8171	1 7
7965	0 4½	8034	0 5	8103	0 5	8172	0 9
7966	0 9	8035 *not enrolled.*		8104	0 5	8173 *not enrolled.*	
7967 *not enrolled.*		8036	0 3	8105	0 3	8174	1 7
7968	1 5	8037 *not enrolled.*		8106	0 10	8175	0 4
7969	1 9	8038 *not enrolled.*		8107 *not enrolled.*		8176	0 9
7970	1 0	8039	0 10	8108	5 2	8177	0 10
7971	0 10	8040	0 3	8109	1 8	8178	0 9
7972	2 2	8041	0 10	8110	0 8	8179	1 2
7973	0 10	8042	0 9	8111	1 1	8180	0 5
7974	0 9	8043	0 9	8112	0 8	8181 *not enrolled.*	
7975	0 8	8044	0 5	8113	1 0	8182	0 5
7976	0 10	8045	0 6	8114	0 10	8183	0 4
7977	0 6	8046	0 6	8115	0 6	8184	0 5
7978	0 9	8047	0 7	8116	0 10	8185	0 10
7979 *extension of* 5107.		8048	3 3	8117 *not enrolled.*		8186	0 6
7980	1 4½	8049	0 10	8118	1 10	8187	0 6
7981	1 0	8050	0 8	8119	0 5½	8188	3 3
7982 *extension of* 5109.		8051	0 5	8120	0 3	8189	0 3
7983	0 3	8052 *not enrolled.*		8121	3 8	8190	0 3
7984	1 1	8053	1 3	8122	0 6	8191 *not enrolled.*	
7985	0 4	8054	2 6	8123	0 8	8192	1 0
7986	1 5	8055	0 11	8124	0 7	8193	0 3
7987	0 9	8056	0 3	8125	1 0	8194	0 11
7988	0 9	8057 *not enrolled.*		8126	1 11	8195	1 4
7989 *not enrolled.*		8058	0 5	8127	0 3	8196	0 9
7990	1 1	8059	0 6	8128	0 3	8197	1 9
7991	0 3	8060	2 8	8129	0 3	8198	1 9
7992	0 5	8061	1 2	8130	1 4	8199	0 3
7993	1 9	8062	0 9	8131 *not enrolled.*		8200	0 9
7994	0 10	8063	1 10	8132	0 4	8201	0 5
7995	0 3½	8064 *not enrolled.*		8133	0 7	8202	0 11
7996 *not enrolled.*		8065	0 6	8134	0 7	8203	0 6
7997	0 8	8066	0 5	8135	1 1	8204	0 8
7998	0 3	8067	0 10	8136	1 6	8205	0 7½
7999	0 7	8068	1 0	8137	1 4	8206	0 4
8000	1 3	8069	1 0	8138	0 3	8207	4 2
8001	2 1	8070	5 2	8139	0 9	8208	0 3
8002	0 6	8071	0 4½	8140	1 1	8209	0 3
8003	0 8	8072	0 10	8141	1 6	8210	4 10
8004 *not enrolled.*		8073	0 5	8142	0 7	8211	0 5
8005	0 7	8074	0 5	8143	0 4½	8212	0 9
8006	1 3	8075	0 9	8144	0 3	8213	0 10
8007	0 6	8076	1 3	8145	0 5	8214	1 1
8008	1 0	8077	0 3	8146	1 3	8215	0 8
8009	0 3	8078	0 6	8147	0 4	8216	0 11
8010	0 6	8079	1 3	8148	0 11	8217	0 7
8011	0 7	8080	0 5	8149	0 4	8218	0 5
8012 *extension of* 5138.		8081	0 11	8150	1 5	8219	3 1
8013	0 3	8082 *not enrolled.*		8151	0 6	8220	0 9
8014	0 9	8083	0 5	8152 *not enrolled.*		8221	0 7
8015	0 9	8084	1 0	8153	0 5	8222	0 7
8016	0 6	8085	0 9	8154	0 5	8223	0 5
8017	0 9	8086	0 9	8155	0 9	8224	0 6
8018	1 0	8087	0 8	8156	0 11	8225	0 4
8019	0 5	8088	0 3	8157	0 6	8226	0 10
8020	0 3	8089	0 4	8158	0 3	8227	0 3
8021	0 4	8090	1 0	8159	0 3	8228	0 6
8022	0 6	8091	0 9	8160	0 7	8229	1 4
8023	0 6	8092	1 5	8161	0 7	8230	0 9
8024	0 10½	8093	0 7	8162	1 1	8231	0 4
8025	0 3	8094	0 6	8163	0 6	8232	0 4
8026	1 6	8095	0 11	8164	1 11		

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No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
8233	0 9	8302	0 5	8371	0 6	8440	0 8
8234	0 5	8303	0 3	8372	2 2	8441	0 3
8235	1 4	8304	0 4	8373	0 10	8442	0 4
8236	0 10	8305	0 6	8374	0 5	8443	0 3
8237	0 6½	8306	0 9	8375	1 7	8444 *not enrolled.*	
8238	0 10	8307	1 2	8376	0 10	8445	0 9
8239	0 10	8308	0 7	8377	0 9	8446	0 6
8240	0 7	8309	0 3	8378	0 7	8447	0 5
8241	0 6	8310	2 6	8379	0 10	8448	1 5
8242	0 11	8311	0 11	8380	1 10	8449	0 8
8243	0 10	8312	0 9	8381	1 8	8450	0 8
8244	0 9	8313	0 6	8382	0 4	8451	0 3
8245 *not enrolled.*		8314	0 3	8383	0 3	8452	0 5
8246	4 3	8315	2 3	8384	0 10	8453 *not enrolled.*	
8247	1 3	8316	0 6	8385	0 8½	8454	2 1½
8248	2 8	8317	1 1	8386	0 4	8455 *not enrolled.*	
8249	0 3	8318 *not enrolled.*		8387	2 6	8456	0 3
8250	1 6	8319	0 3	8388	0 5	8457 *not enrolled.*	
8251	1 1	8320	1 1	8389	0 8	8458	0 4
8252	0 5	8321	0 6	8390	0 6	8459	0 4
8253	0 4	8322	0 9	8391	0 5	8460	0 10
8254	0 3	8323	1 0	8392	1 3	8461	0 3
8255	1 2	8324 *not enrolled.*		8393	1 1	8462	0 8
8256	1 0	8325	0 6	8394	0 10	8463	0 9
8257	0 8	8326 *not enrolled.*		8395	1 6	8464	0 10
8258	0 7	8327	0 5	8396	0 9	8465	0 5
8259	0 7	8328	1 4	8397	1 0	8466	2 1
8260	0 10	8329	0 6	8398	0 9	8467	0 9
8261	1 3	8330	0 5	8399	0 3	8468	0 11
8262	6 6	8331	1 0	8400	0 6	8469	2 1
8263	0 6	8332	0 9	8401	0 6	8470	0 8
8264	0 6	8333	0 8	8402	0 10	8471	1 4
8265	0 5	8334	0 10	8403	0 3	8472 *not enrolled.*	
8266 *not enrolled.*		8335 *not enrolled.*		8404	5 10	8473	0 5
8267	0 10	8336	1 4	8405	0 6	8474	0 10
8268	0 10	8337	0 7	8406	0 9	8475	1 0
8269	1 2	8338	0 5	8407	0 3	8476	0 3
8270	1 11	8339	0 8	8408	0 5	8477	0 7
8271	0 3	8340	0 7	8409	0 8	8478 *not enrolled.*	
8272	1 7	8341	1 8	8410	1 0	8479	0 5
8273	0 3	8342	0 7	8411	1 4	8480	1 4
8274	0 11	8343	1 3	8412	1 5	8481	0 9
8275	0 5	8344	1 3	8413	0 3	8482	0 10
8276	1 7	8345	2 11	8414 *not enrolled.*		8483 *not enrolled.*	
8277	0 9	8346	2 5	8415	0 4	8484	0 9
8278	0 5	8347	2 1½	8416	0 9	8485	0 5
8279	1 5	8348	0 3	8417	0 6	8486	1 7
8280	0 9	8349	1 3	8418	0 5	8487	0 5
8281	1 9	8350	0 3	8419	0 9	8488	0 4½
8282	0 9	8351 *not enrolled.*		8420	0 7	8489	0 8
8283	1 9	8352	0 9	8421	2 4	8490	0 11
8284 *not enrolled.*		8353	0 9	8422	0 8	8491	0 9
8285	0 5	8354	3 4	8423	1 2	8492	0 9
8286	0 5	8355	2 5	8424	1 0	8493	0 6
8287	0 9	8356	0 8	8425	1 3	8494 *not enrolled.*	
8288	0 11	8357	0 6	8426	0 9	8495	1 0
8289	6 6	8358	0 9	8427	1 5	8496	0 3
8290	0 10	8359	0 10	8428	1 4	8497	1 3
8291	0 6	8360	0 9	8429 *not enrolled.*		8498	0 4½
8292 *not enrolled.*		8361 *not enrolled.*		8430	10 2	8499	0 6
8293	1 4	8362	2 4	8431	1 6	8500	0 3
8294	1 0	8363	0 10	8432	1 1	8501	7 8
8295	1 0	8364	0 3	8433	1 2	8502	0 9
8296	0 5	8365	0 3	8434	1 7	8503	0 5
8297	1 0	8366	0 6	8435 *not enrolled.*		8504	0 9
8298	2 0	8367	1 7	8436	1 2	8505	0 7
8299	0 5½	8368	0 6	8437	0 3	8506	2 1
8300	0 7	8369	0 5	8438	0 9	8507	1 10
8301	0 3	8370	3 9	8439	0 3		

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No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
8508	1 1	8577	0 4	8646	2 6	8715	0 6
8509 *not enrolled.*		8578	0 9	8647	6 4	8716	0 11
8510	0 6	8579 *extension of* 5016.		8648	0 9	8717	1 3
8511	0 9	8580	0 10	8649	0 7	8718 *not enrolled.*	
8512	1 0	8581	0 3	8650	0 8	8719	1 9
8513	0 10½	8582	0 3	8651	0 3	8720	2 11
8514	1 4	8583	1 0	8652	0 10	8721	0 4
8515	0 5	8584	0 8	8653	0 3	8722	0 9
8516	1 0	8585	0 9	8654	0 10	8723	0 3
8517	4 0	8586	0 9	8655	1 1	8724	0 3
8518	0 9	8587	0 9	8656	0 5	8725	3 5
8519	1 1½	8588	0 8	8657	0 5	8726	3 3
8520	0 5½	8589	0 5	8658	0 6	8727	0 6
8521	0 10	8590	1 1	8659	1 7	8728	0 7
8522	0 10	8591	2 0	8660	4 4	8729	0 8
8523	0 5	8592	1 7	8661	2 2	8730	1 4
8524	0 8	8593	0 6	8662	0 4	8731	2 2
8525	1 0	8594	1 1	8663	4 2	8732	0 11
8526	0 3	8595	0 6	8664	1 7	8733	0 4
8527	0 5	8596	1 5	8665	1 7	8734	0 6
8528	0 4	8597	0 4	8666	0 9	8735 *not enrolled.*	
8529	1 3	8598	0 7	8667 *extension of* 5415.		8736	0 9
8530	0 6	8599	1 0	8668	0 5½	8737 *not enrolled.*	
8531	3 8	8600	0 10	8669	0 8	8738	1 3
8532	0 6	8601	0 10	8670	0 6	8739	0 5
8533	0 6	8602	0 7	8671	0 7	8740 *not enrolled.*	
8534	1 8	8603	0 5	8672	0 3	8741	1 8
8535	0 8	8604	0 4	8673	0 6	8742	0 9
8536	0 4	8605 *not enrolled.*		8674	0 6	8743	1 3
8537	2 10	8606	0 10	8675	1 0	8744	4 4
8538	1 4	8607	1 9	8676	0 9	8745	2 1
8539	0 9	8608	0 4	8677	0 3	8746	0 5
8540	0 5	8609	2 9	8678	0 5	8747	0 9
8541	0 10	8610	0 10	8679	0 9	8748	0 4
8542	2 0	8611	0 10	8680	0 10	8749	1 1
8543	0 7	8612	1 0	8681	1 2	8750	1 3
8544	0 9	8613	1 3	8682	0 9	8751	1 0
8545	0 6½	8614	0 10	8683	0 4	8752	0 11
8546	0 7	8615	0 9	8684 *not enrolled.*		8753	0 3
8547	5 11	8616 *not enrolled.*		8685	0 9	8754 *not enrolled.*	
8548	0 6½	8617	0 3	8686	0 4	8755	0 11
8549	1 8	8618	0 8	8687	0 10	8756	1 0
8550	0 7	8619	4 5	8688	0 9	8757	0 3
8551	3 2	8620	1 4	8689	0 5	8758 *not enrolled.*	
8552	0 6	8621	1 3	8690	8 9	8759	0 10
8553	0 9	8622	0 7	8691	1 10	8760	0 5
8554	0 10	8623	0 10	8692	0 9	8761	0 9
8555	0 4	8624	0 7	8693	1 2	8762	0 10
8556	0 9	8625	0 9	8694	2 0	8763 *not enrolled.*	
8557	0 8	8626	1 10	8695	0 7	8764	0 6
8558	0 6	8627	0 4	8696	0 9	8765	0 3
8559	0 6	8628	6 0	8697	0 9	8766	0 6
8560	1 10	8629	0 8	8698	2 6	8767	3 2
8561	0 9	8630	1 0	8699	1 6	8768	0 6
8562	0 8	8631	2 7	8700	1 7	8769 *not enrolled.*	
8563	1 4	8632	1 0	8701	1 1	8770	0 3
8564	1 5	8633	0 3	8702	0 4	8571 *not enrolled.*	
8565	0 6	8634	0 3	8703	0 10	8772	0 9
8566 *not enrolled.*		8635	5 9	8704	0 6½	8773	0 3
8567	0 8	8636	1 8	8705	2 1	8774	4 0
8568	0 10	8637	0 3	8706	0 6	8775	0 9
8569	0 3	8638 *not enrolled.*		8707	0 8	8776	0 3
8570	0 8	8639	0 10	8708	2 9	8777	1 10
8571	0 4	8640	0 3	8709	0 3	8778	0 7
8572	1 4	8641	1 0	8710	0 5	8779	1 0
8573	0 5½	8642	1 1	8711	0 6	8780	0 3
8574	1 6	8643	1 11	8712	1 0	8781	0 7
8575	0 3	8644	6 8	8713	2 5	8782	0 5
8576	0 7	8645	0 5	8714	0 10	8783	2 8

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No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
8784	0 10	8853	1 2	8922	0 5	8991	0 7
8785	1 10	8854	0 11	8923	0 9	8992	1 1
8786	1 1	8855	0 9	8924	0 8	8993	3 0
8787	0 6	8856	0 11	8925	0 6	8994	1 4
8788	0 6	8857	0 10	8926	2 0	8995	0 6
8789	5 0	8858	0 5	8927	0 5	8996	1 0
8790	0 10	8859	0 10	8928	0 9	8997	0 5
8791	1 9	8860	1 6	8929 *not enrolled.*		8998	3 0
8792	1 2	8861	0 9	8930	0 3	8999	0 10
8793	0 7	8862	0 5	8931	1 2	9000	1 2
8794	2 7	8863	0 9	8932	1 0	9001	0 6
8795	0 3	8864	2 4	8933	1 1	9002	0 6
8796	2 9	8865	0 8	8934	0 6	9003	0 11
8797 *not enrolled.*		8866	0 6	8935	0 4	9004	0 10
8798	0 9	8867	1 2	8936	1 8	9005	0 6
8799	2 7	8868	1 0	8937	0 7	9006	5 2
8800	1 3	8869	0 5	8938	0 5	9007	1 3
8801	0 11	8870	0 4	8939	0 11	9008	1 4
8802	1 6	8871	0 9	8940	0 9	9009	0 6
8803	1 8	8872	0 5	8941	0 7	9010	1 7
8804	1 0	8873	0 3	8942	0 8	9011	1 0
8805	0 9	8874	0 6	8943	0 3	9012	1 9
8806 *not enrolled.*		8875	0 5	8944	0 9	9013	0 4
8807 *not enrolled.*		8876	0 11	8945	1 1	9014	2 6
8808	0 4	8877	0 6	8946	1 3	9015	0 10
8809	0 4	8878	0 3	8947	0 5	9016	0 8
8810	1 6	8879	1 1	8948	7 2	9017	0 3
8811	1 3	8880	0 3	8949	0 3	9018	0 5
8812	0 3	8881	0 10	8950	0 6	9019	0 3
8813	1 1	8882	1 10	8951	1 4	9020	0 7
8814	0 3	8883	1 2	8952	0 11	9021	0 6
8815 *not enrolled.*		8884	0 3	8953	0 5	9022	2 2
8816	0 5	8885	1 1	8954	0 9	9023	1 7
8817	0 5	8886	0 3	8955	1 0	9024	1 4
8818	0 8	8887 *not enrolled.*		8956	0 9	9025	0 3
8819 *not enrolled.*		8888	0 11	8957	0 11	9026	2 1
8820	0 9	8889	0 8	8958	3 6	9027	0 10
8821 *not enrolled.*		8890	0 7	8959	0 3	9028	0 9
8822	4 5	8891	2 6	8960	1 9	9029	0 6
8823	0 5	8892	0 3	8961	0 9	9030	1 10
8824	1 1	8893	0 6	8962	1 10½	9031	1 3
8825	0 5	8894	0 5	8963	1 8	9032	1 10
8826	0 3	8895 *not enrolled.*		8964	0 5	9033	0 7
8827	0 10	8896	0 9	8965	0 6	9034	0 9
8828	1 6	8897	1 4	8966	0 5	9035	0 6
8829 *not enrolled.*		8898	1 5	8967	0 9	9036	1 7
8830	0 4	8899	1 4	8968	1 1	9037	1 9
8831	0 10	8900	0 10	8969	1 3	9038	1 9
8832	7 2	8901	1 0	8970	1 1	9039	0 6
8833	1 6	8902	0 7	8971	0 8	9040	0 11
8834 *not enrolled.*		8903	1 8	8972	0 6	9041	0 8
8835	0 6½	8904	0 9	8973	0 3	9042	0 10
8836	1 4	8905	0 7	8974	1 5	9043	0 9
8837	0 6	8906	0 3	8975	4 5	9044	0 10
8838	2 9	8907	0 4	8976	0 5	9045	1 6
8839	1 1	8908	0 6	8977	4 6	9046	1 8
8840	0 11	8909	2 5	8978	1 7	9047	0 6
8841	0 4	8910	0 9	8979	2 2	9048	0 5
8842	0 5	8911	0 8	8980	1 9	9049	0 6
8843	0 4	8912	1 9	8981	2 7	9050	1 11
8844	1 0	8913	0 10	8982	0 10	9051	0 10
8845	1 3	8914	0 4	8983	0 6	9052	0 5
8846	0 10	8915 *not enrolled.*		8984	1 7	9053	0 7
8847	1 0	8916	0 5	8985 *not enrolled.*		9054	1 7
8848	0 9	8917	0 8	8986	0 5	9055	0 4
8849	0 11	8918	0 6	8987	0 4	9056	2 11
8850	0 10	8919	0 6	8988	1 0	9057	0 6
8851	0 8	8920	0 3	8989	0 10	9058	1 1
8852	0 6	8921	5 8	8990	0 5	9059	2 9

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No.	Price. s. d.	No.	Price. s. d.	No.	Price. s. d.	No.	Price. s. d.
9060	1 4	9129	0 6½	9198	0 5	9267	0 7
9061	2 4	9130	0 10	9199	0 5	9268	1 10
9062	2 2	9131	1 0½	9200	1 7	9269	1 10
9063	0 9	9132	1 0	9201	0 6	9270	0 5
9064	0 3	9133	1 6	9202	0 6	9271	1 5
9065	1 7	9134	0 6	9203	0 5	9272	0 5
9066	5 6	9135	1 9	9204	2 5	9273	0 5
9067	1 0	9136	0 6	9205	0 6	9274	0 5
9068	1 0	9137	0 5	9206	0 9	9275	0 3
9069	0 10½	9138	1 0	9207	0 11	9276	1 2
9070	2 9	9139	2 3	9208	0 6	9277	1 3
9071 *not enrolled.*		9140	0 10	9209 *not enrolled.*		9278	1 6
9072	1 3	9141	0 3	9210	0 5	9279	1 6
9073	1 4	9142	1 0	9211	0 5	9280	0 9
9074	0 6	9143	2 0	9212	0 8	9281	3 8
9075	1 4	9144	0 5	9213 *not enrolled.*		9282	0 9
9076	0 7	9145	0 6	9214	0 7	9283	0 6
9077	0 4	9146	0 6	9215 *not enrolled.*		9284	1 8
9078	3 10	9147	0 6	9216	0 9	9285	0 9
9079 *not enrolled.*		9148	0 9	9217	0 6	9286	0 8
9080	0 6	9149	0 3	9218	0 9	9287	0 10
9081	0 5	9150	0 8	9219	0 4	9288	1 3
9082	0 11	9151	0 9	9220	1 10	9289	0 10
9083	1 11	9152	0 5	9221 *not enrolled.*		9290	1 8
9084	0 11½	9153	0 10	9222	0 9	9291	1 4
9085	2 0	9154	0 9	9223	0 6	9292	0 3
9086	0 10	9155	1 7	9224	1 3	9293	1 0
9087	0 6	9156	0 8	9225	2 2	9294	0 11
9088	1 1	9157	1 3	9226	1 1	9295	0 5
9089	0 3	9158	0 9	9227	0 4	9296	0 5
9090	1 0	9159 *not enrolled.*		9228	0 4	9297	0 3
9091	0 10	9160	1 0	9229	1 6	9298	1 0
9092	2 2	9161	0 7	9230	0 5	9299	0 5
9093	0 6	9162	0 10	9231	0 6	9300	3 3
9094	1 1	9163	0 5	9232	0 5	9301	0 6
9095	0 4	9164	0 6	9233	0 3	9302	0 8
9096	0 10	9165	1 6	9234	0 4	9303	0 6
9097	0 8	9166	0 4	9235	0 10	9304	0 7
9098	0 6	9167	0 3	9236	1 10	9305	0 9
9099	0 10	9168	0 10	9237	0 11	9306	1 2
9100	1 8	9169	2 6	9238	0 11	9307	0 8
9101	1 7	9170	0 6	9239	1 6	9308	1 7
9102	0 4	9171	1 0	9240	0 3	9309	0 6
9103	0 6	9172	0 9	9241	0 5	9310	0 7
9104	1 9	9173	1 0	9242	1 3	9311 *not enrolled.*	
9105	2 4	9174	0 11	9243	3 1	9312	0 5
9106	0 10	9175	0 11	9244 *not enrolled.*		9313	1 8
9107	1 10	9176	1 2	9245	0 9	9314	0 9
9108	0 3	9177	0 5½	9246	2 3	9315	1 3
9109	0 10	9178	0 4	9247	1 9	9316	0 9
9110	2 3	9179	0 10	9248	0 3	9317	1 1
9111	2 8	9180	1 6	9249	0 10	9317*	0 3
9112	0 4	9181 *not enrolled.*		9250	1 2	9318	0 9
9113	1 1	9182	0 6	9251	0 7	9319	0 7
9114	0 6	9183	0 9	9252	0 5	9320 *not enrolled.*	
9115	0 11	9184	0 8	9253	0 10	9321	1 1
9116	1 9	9185	0 3	9254	0 10	9322	1 1
9117	0 5	9186	0 5	9255	0 3	9323	0 3
9118	1 1	9187	2 9	9256 *not enrolled.*		9324	0 4
9119	0 6½	9188	0 5½	9257	1 11	9325	0 3
9120	0 6	9189	0 6½	9258	0 5½	9326	0 5
9121	5 2	9190	1 3	9259	0 6	9327	1 8
9122	1 1	9191	1 9	9260	2 1	9328	0 9
9123 *not enrolled.*		9192	0 9	9261	1 9	9329	1 0
9124	1 10	9193	0 4	9262	1 7	9330	1 9
8125 *not enrolled.*		9194	0 4	9263	0 9	9331	0 4
9126	0 9	9195	1 2	9264	0 3	9332	1 11
9127	0 4	9196	0 6	9265	0 9	9333	0 5
9128	1 11	9197	0 6	9266	0 5	9334	0 10

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
9335	0 6½	9404	4 10	9473	1 8	9542	0 6
9336	0 9	9405 *not enrolled.*		9474	2 7	9543	1 0
9337	0 3	9406	0 8	9475	0 4	9544	3 1
9338	2 10	9407	1 4	9476	1 10	9545	1 10
9339	0 10	9408	1 4	9477	0 3	9546	0 3
9340 *not enrolled.*		9409	0 6	9478	3 11	9547	1 11
9341	1 0	9410	0 10	9479	0 4	9548	0 10
9342	0 6	9411	1 4	9480	0 9	9549	0 4
9343	0 9	9412	0 6	9481	0 9	9550	1 4
9344	2 4	9413	2 2	9482 *not enrolled.*		9551	1 6
9345	1 1	9414	0 9	9483	1 3	9552	1 7
9346	0 5	9415	2 2	9484	0 10	9553	1 11
9347 *not enrolled.*		9416	0 7	9485	0 9	9554	0 4
9348	0 6	9417	0 3	9486	0 6	9555	4 0
9349	0 9	9418	1 4	9487	0 4	9556	1 4
9350	0 8	9419	1 6	9488	1 0	9557	1 8
9351	1 7	9420	0 7	9489	1 2	9558	0 10
9352	0 7	9421	1 2	9490	0 9	9559	1 11
9353	0 4	9422	0 9	9491	1 9	9560	1 2
9354	2 2	9423	0 10	9492	0 3	9561	0 9
9355	1 8	9424	0 3	9493	0 6	9562	1 2
9356	0 10	9425	0 9	6494	1 7	9563	2 3
9357	3 10	9426	0 11	9495	0 7	9564	0 8
9358	0 3	9427	0 4	9496	0 7	9565	2 1
9359	1 7	9428 *not enrolled.*		9497	1 0	9566	0 11
9360	0 4	9429	0 7	9498	0 3	9567 *not enrolled.*	
9361	1 3	9430	0 3	9499	0 6	9568 *not enrolled.*	
9362	0 8	9431	0 10	9500	1 0	9569	0 6
9363	0 6	9432	0 6	9501	0 10	9570	1 6
9364	1 1	9433	1 3	9502 *not enrolled.*		9571	0 10
9365	0 5	9434	0 10	9503	2 2	9572	0 3
9366	1 7	9435	1 1	9504	0 4	9573	2 0
9367	0 3	9436	2 6	9505	0 3	9574	0 10
9368	3 6	9437	2 9½	9506	1 4	9575	0 9
9369	1 0	9438	1 4	9507	1 5	9576	2 2
9370 *not enrolled.*		9439	0 6	9508	0 5	9577	2 6
9371	1 11	9440	0 8	9509	0 3	9578	0 9
9372	0 11	9441	0 3	9510	0 5	9579	0 5
9373	1 1	9442	0 4	9511 *not enrolled.*		9580	1 9
9374	2 0	9443	0 10	9512	0 5	9581	0 7
9375	0 6	9444	1 6	9513	0 7	9582	0 5
9376	1 0	9445	1 0	9514	0 8	9583	1 3
9377	1 4	9446	1 6	9515	0 9	9584	1 11
9378	1 9	9447	0 5	9516	1 7	9585	0 8
9379	0 4	9448	0 5	9517	0 3	9586	0 5
9380	1 1	9449	2 4	9518	0 6	9587	1 9
9381	0 9	9450	0 5	9519	0 6	9588	0 10
9382	1 0	9451	1 0	9520	1 4	9589	0 3
9383	0 3	9452	0 5	9521	5 0	9590	0 3
9384	0 6	9453	1 0	9522 *not enrolled.*		9591	1 9
9385	0 9	9454	2 0	9523	1 0	9592	0 10
9386	1 4	9455	2 0	9524	0 9	9593	1 3
9387	0 6	9456	0 9	9525	1 0	9594 *not enrolled.*	
9388	1 5	9457	0 6	9526	0 10	9595 *not enrolled.*	
9389	1 5	9458	0 3	9527	1 8	9596	2 8
9390	0 6	9459	1 4	9528	0 3	9597	1 10
9391 *not enrolled.*		9460	0 6	9529	0 6	9598	0 6
9392	0 11	9461	0 6	9530	0 11	9599	1 10
9393	0 8	9462	0 10	9531	0 7	9600	0 5
9394	0 10	9463	4 5	9532	1 4	9601	0 8
9395	0 11	9464	3 0	9533 *not enrolled.*		9602	0 5
9396	0 5	9465	2 3	9534	0 5	9603	0 4
9397	0 9	9466	0 5	9535	1 7	9604	0 10
9398	0 10	9467	9 6	9536	1 6	9605	3 10
9399	0 9	9468	1 1	9537	0 3	9606	0 8
9400 *not enrolled.*		9469 *not enrolled.*		9538	2 0	9607	0 6
9401	0 3	9470	0 6	9539	0 6	9608	1 3
9402	0 10	9471	2 1	9540	0 8	9609 *not enrolled.*	
9403	0 7	9472	0 4	9541	0 3	9610	0 9

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
9611	0 6	9680	1 3	9749	0 8	9817 *not enrolled.*	
9612	0 3	9681	0 4	9750	0 5	9818	0 5
9613	0 5	9682	0 3	9751	1 6	9819	0 5
9614	2 0	9683	0 10	9752 *not enrolled.*		9820	0 9
9615	1 0	9684	2 1	9753	0 4	9821	0 9
9616	1 4	9685 *not enrolled.*		9754	0 9	9822	1 1
9617	1 4	9686	1 2	9755	1 6	9823	0 6
9618	0 3	9687	0 3	9756	1 2	9824	0 10
9619	0 10	9688	1 9	9757	0 3	9825	1 3
9620	0 6	9689	0 10	9758	1 3	9826	2 3
9621	0 6½	9690	0 3	9759	0 5	9827	1 0
9622	0 3	9691	0 9	9760	1 4	9828	3 2
9623	1 1	9692	0 3	9761 *not enrolled.*		9829	1 1
9624	0 6	9693	0 7	9762	0 3	9830	2 4
9625	0 10	9694	7 8	9763	0 4	9831	0 9
9626	0 5	9695	3 5	9764	0 10	9832	0 3
9627	2 0	9696	0 4	9765	1 1	9833	1 4
9628	1 2	9697	0 10	9766	0 8	9834	0 3
9629	0 6	9698	0 6	9767	0 7	9835	4 11
9630	0 6	9699	1 5	9768	0 3	9836	0 10
9631	0 8	9700	1 2	9769	1 0	9837	0 11
9632	0 5	9701	2 2	9770 *not enrolled.*		9838	3 10
9633	1 4	9702	3 9	9771	0 5	9839	0 6
9634	0 3	9703	0 9	9772 *not enrolled.*		9840	0 9
9635	0 5	9704	1 8	9773	0 5	9841	0 6
9636	2 5	9705 *not enrolled.*		9774	0 7	9842	2 10
9637	0 10	9706	0 6	9775	0 10	9843 *not enrolled.*	
9638	2 2	9707	3 2	9776	1 4	9844	1 1
9639	0 9	9708	0 6	9777	0 7	9845	0 10
9640	1 11	9709	0 10	9778	0 9	9846	0 6
9641	0 3	9710	0 8	9779	0 8	9847	0 3
9642	1 5	9711	0 8	9780	2 7	9848	0 8
9643	1 3	9712	0 4½	9781	0 9	9849	0 3
9644	2 3	9713	1 5	9782	4 5	9850	1 6
9645	0 6	9714	2 9	9783	0 9	9851	0 6
9646	0 9	9715	0 9	9784	1 6	9852	0 3
9647	0 9	9716	0 11	9884*	0 4	9853	0 10
9648	0 10	9717	0 5	9785	0 5	9854	1 4
9649	0 6	9718	0 6	9786	0 4	9855	0 10
9650	0 5	9719	0 8	9787	1 10	9856	1 4
9651	0 3	9720	1 0	9788	1 1	9857	0 5
9652	1 0	9721	0 3	9789	1 2	9858	2 3
9653	0 5	9722	1 3	9790	1 1	9859	2 10
9654	0 5	9723	0 6	9791	0 9	9860	0 3
9655	1 11	9724	0 7	9792	0 6	9861	0 8
9656	0 7	9725	1 2	9793	0 11	9862 *not enrolled.*	
9657	1 9	9726	0 9	9794	0 9	9863	0 3
9658	1 1	9727	0 9	9795	1 8	9864	1 5
9659	0 9	9728	1 6	9796	0 7	9865	1 2
9660	0 9	9729	0 8	9797	1 8	9866	0 10
9661	2 3	9730	0 8	9798	1 5	9867 *not enrolled.*	
9662	0 9	9731	2 6	9799	1 3	9968	1 4
9663	2 5	9732	0 8	9800	0 10	9869	2 3
9664	0 3	9733	0 6	9801	0 6½	9870	1 6
9665	4 3	9734	0 3	9802	2 4	9871	0 9
9666	0 6	9735	0 7	9803	1 7	9872	0 6
9667 *not enrolled.*		9736	2 2	9804 *not enrolled.*		9873 *not enrolled.*	
9668	0 11	9737	0 4	9805	1 5	9874 *extension of* 5842.	
9669	0 4	9738	0 6	9806	0 6	9875	0 5
9670	0 6	9739	1 9	9807	0 3	9876	0 4½
9671	0 9	9740	1 7	9808	0 10	9877	3 5
9672	0 8	9741	0 5	9809	1 7	9878 *not enrolled.*	
9673	0 4½	9742	0 9	9810 *extension of* 5805.		9879	1 2
9674	2 9	9743	1 3	9811	0 9	9880	0 10
9675	0 5	9744	0 10	9812	1 5½	9881	0 6
9676	0 3	9745	3 5	9813 *not enrolled.*		9882	0 10
9677	0 3	9746	2 6	9814	1 7	9883	3 2
9678	0 5	9747	0 10	9815	0 4	9884 *not enrolled.*	
9679	0 9	9748	0 5	9816	1 8	9885	1 2

List of Printed Specifications of Patents...*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
9886	0 3	9955	0 9	10,023	1 10	10,091	1 3
9887	0 9	9956 *not enrolled.*		10,024	0 10	10,092	0 7
9888	0 10	9957	0 4	10,025	1 10	10,093	0 8
9889	0 3	9958	1 0	10,026	1 10	10,094	0 3
9890	0 4	9959	0 5	10,027	0 7	10,095	0 5
9891	2 4	9960	1 6	10,028 *not enrolled.*		10,096	6 2
9892	0 10	9961	0 5½	10,029	1 6	10,097	0 4
9893	0 6	9962	0 10	10,030	0 6½	10,098	0 6
9894	0 6½	9963	2 0	10,031	0 6	10,099	1 5
9895	2 2	9964	0 9	10,032	0 10	10,100	0 3
9896	0 6	9965	2 0	10,033	1 4	10,101	0 9
9897	3 6	9966	3 8	10,034	0 9	10,102	0 6
9898	0 9	9967	0 6	10,035	0 9	10,103	0 6
9899	1 9	9968	0 3	10,036	1 4	10,104	0 8
9900	0 3	9969	1 3	10,037	0 6	10,105	0 3
9901	2 0	9970	0 8	10,038	0 3	10,106	1 7
9902	1 4	9971	1 1	10,039	0 6	10,107	1 11
9903	1 1	9972	0 10	10,040	0 10	10,108	0 9
9904	1 7	9973	0 5	10,041	2 1	10,109	0 6½
9905	0 9	9974	1 5	10,042	0 11	10,110	1 3
9906	0 5	9975	1 4	10,043	0 6	10,111	0 7
9907	0 10	9976 *not enrolled.*		10,044	0 11	10,112 *not enrolled.*	
9908	0 6	9977	0 7	10,045	4 2	10,113	1 1
9909	0 3	9978	1 0	10,046	0 3	10,114	0 7
9910	0 5	9979	0 8	10,047	0 10	10,115	0 6
9911	0 11	9980	1 1	10,048	0 5	10,116	0 6
9912	2 9	9981 *not enrolled.*		10,049 *not enrolled.*		10,117	0 10
9913	0 7	9982	0 7	10,050	0 10	10,118	0 3
9914	10 6	9983	1 5	10,051	0 6½	10,119 *not enrolled.*	
9915	0 8	9984	0 10	10,052	0 3	10,120	4 8
9916	0 9	9985	1 5	10,053	0 6	10,121 *not enrolled.*	
9917	0 3	9986	0 3	10,054	0 3	10,122	1 5
9918	1 4	9987	0 5	10,055	0 3	10,123	0 3
9919	0 10	9988 *not enrolled.*		10,056	0 4	10,124 *not enrolled.*	
9920	0 6	9989	2 0	10,057	0 8	10,125	0 7
9921	0 10	9990	1 0	10,058	0 5	10,126	1 1
9922	0 10	9991	0 3	10,059	1 1	10,127	0 9
9923	0 7	9992	0 5	10,060	0 3	10,128	0 6
9924	0 10	9993	3 3	10,061	1 1	10,129	1 0
9925	0 6	9993*	0 3	10,062	0 3	10,130	0 3
9926	0 8	9994	1 9	10,063 *not enrolled.*		10,131	2 11
9927	0 10	9995	0 9	10,064	0 4	10,132	0 7½
9928	0 8	9996	1 0	10,065	4 3	10,133	0 10
9929	1 4	9997	1 4	10,066	1 8	10,134	0 6
9930	0 10	9998	0 9	10,067	0 6	10,135	2 1
9931	0 3	9999	1 4	10,068	0 10	10,136	1 1
9932	0 11	10,000	0 5	10,069	0 6	10,137	2 3
9933	0 6	10,001	0 10	10,070	0 10	10,138	0 6
9934	0 3	10,002 *not enrolled.*		10,071	0 6	10,139	0 3
9935	0 10	10,003 *not enrolled.*		10,072	0 6	10,140 *not enrolled.*	
9936	0 10	10,004	0 4	10,073	0 4	10,141	0 7
9937	1 4	10,005	1 7	10,073*	0 4	10,142	0 9
9938	3 8	10,006	0 4	10,074	0 9	10,143	0 10
9939	0 3	10,007	2 3	10,075	1 6	10,144	1 4
9940	0 11½	10,008	0 5½	10,076	0 9	10,145	1 7
9941	0 3	10,009	0 7	10,077 *not enrolled.*		10,146	1 6
9942 *not enrolled.*		10,010 *not enrolled.*		10,078	0 7	10,147	0 6
9943	1 11	10,011	0 3	10,079	0 8	10,148	1 2
9944	2 2	10,012	0 6	10,080	2 5	10,149	1 1
9945 *not enrolled.*		10,013	0 9½	10,081	0 3	10,150	2 10
9946	0 3	10,014	0 3	10,082	0 3	10,151	1 11
9947	0 6½	10,015	1 6	10,083	2 0	10,152	0 10
9948	1 0	10,016	0 9	10,084	1 1	10,153	9 0
9949	0 9	10,017	0 9	10,085	0 10	10,154	0 7
9950 *not enrolled.*		10,018	1 0	10 086	0 3	10,155	1 6
9951	0 3	10,019	1 5	10,087	0 8	10,156	0 9
9952	0 4½	10,020	1 6	10,088	0 4	10,157	0 7
9953	0 7	10,021	0 6	10,089	0 3	10,158	0 6
9954	0 9	10,022 *extension of* 5890.		10,090	1 2	10,159 *not enrolled.*	

List of Printed Specifications of Patents—*continued.*

No.	Price. s.	d.
10,160 *not enrolled.*		
10,161	2	2
10,162	0	6
10,163	4	0
10,164	2	0
10,165	0	6½
10,166	0	6
10,167	2	8
10,168	1	3
10,169	0	8
10,170	1	7
10,171	6	5
10,172	2	1
10,173	0	10
10,174	1	11
10,175	1	2
10,176	0	7
10,177	1	2
10,178	0	3
10,179	1	3
10,180 *not enrolled.*		
10,181	0	5
10,182	1	4
10,183	0	9
10,184	2	0
10,185	0	6
10,186	0	8
10,187	1	5
10,188	0	6
10,189	1	3
10,190	1	7
10,191	0	4
10,192	1	4
10,193	1	11
10,194	0	9
10,195	0	10
10,196	1	0
10,197	0	10
10,198	0	8
10,199	2	3
10,200	1	1
10,201	1	5
10,202	0	6
10,203	1	3
10,204	0	3
10,205 *not enrolled.*		
10,206	0	6
10,207	0	10
10,208	0	3
10,209	0	10
10,210	1	6
10,211 *not enrolled.*		
10,212	2	9
10,213	1	3
10,214	0	3
10,215	0	10
10,216	2	7
10,217	0	6
10,218	0	9
10,219	2	2
10,220	2	1
10,221	0	6
10,222	0	4
10,223	0	6
10,224	0	4
10,225	1	8
10,226	1	6
10,227	0	4
10,228	0	9
10,229	0	4
10,230	1	4
10,231	2	9
10,232	0	11
10,233	0	4
10,234	0	11
10,235	0	9
10,236	1	0
10,237	0	5
10,238	2	0
10,239	1	4
10,240	0	9
10,241	3	5
10,242	0	9
10,243	4	7
10,244	1	0
10,245	1	7
10,246	0	5
10,247	1	4
10,248	1	1
10,249	0	9
10,250	0	9
10,251 *not enrolled.*		
10,252	0	4
10,253	0	3
10,254	0	5
10,255	0	10
10,256	0	9
10,257	0	6
10,258	1	2
10,259	2	9
10,260	0	10
10,261	1	4
10,262	0	3
10,263	0	7
10,264	1	7
10,265	0	9
10,266	0	11
10,267	0	3
10,268	0	3
10,269	1	4
10,270	0	4
10,271	0	5
10,272	1	9
10,273	2	4
10,274 *not enrolled.*		
10,275	0	10
10,276	0	11
10,277	1	7
10,278	0	3
10,279	0	9
10,280	0	5½
10,281	0	9
10,282	0	4
10,283	0	5
10,284	1	4
10,285	1	6
10,286	0	9
10,287	0	7
10,288	0	10
10,289 *not enrolled.*		
10,290	0	3
10,291	0	9
10,292	0	5
10,293	1	1
10,294	0	4
10,295	0	3
10,296	0	4
10,297	1	0
10,298	0	6
10,299	2	11
10,300	0	9
10,301	0	8
10,302 *not enrolled.*		
10,303	1	4
10,304	0	7
10,305	2	7
10,306	0	4
10,307	2	4
10,308	1	9
10,309	0	9
10,310	0	7
10,311	1	11
10,312	0	3
10,313	0	4
10,314	0	9
10,315	0	6
10,316	0	11
10,317	0	4
10,318	0	4
10,319	0	10
10,320	0	4
10,321 *not enrolled.*		
10,322	0	6
10,323	3	5
10,324	2	8
10,325	1	3
10,326	3	11
10,327	0	11
10,328	0	6
10,329	0	3
10,330	0	3
10,331	0	7
10,332	1	7
10,333	0	6
10,334	0	9
10,335	3	9
10,336	0	3
10,337 *not enrolled.*		
10,338	2	2
10,339	1	5
10,340	1	3
10,341	3	1
10,342	0	5
10,343	0	3
10,344	0	3
10,345	0	10
10,346	1	3
10,347	0	9
10,348	0	7
10,349	0	6
10,350	6	0
10,351	4	6
10,352	0	9
10,353	0	3
10,354	0	9
10,355	0	10
10,356	3	8
10,357	0	10
10,358	0	9
10,359	0	4½
10,360	0	3
10,361	2	1
10,362	0	4
10,363	0	10
10,364	0	7½
10,365	0	4
10,366	0	4
10,367 *not enrolled.*		
10,368	0	6
10,369	0	11
10,370	3	3
10,371	0	4
10,372	0	10
10,373	0	7
10,374	4	6
10,375	0	7
10,376	0	8
10,377	2	4
10,378	0	6
10,379	1	2
10,380	0	6
10,381	1	4
10,382	0	6
10,383	1	8
10,384	0	8
10,385	3	8
10,386	0	9
10,387	0	9
10,388	1	8
10,389 *extension of* 6002.		
10,390	0	4
10,391	2	3
10,392 *not enrolled.*		
10,393	0	6
10,394	1	4
10,395	0	3
10,396 *not enrolled.*		
10,397	0	10
10,398	0	3
10,399	0	6
10,400	0	3
10,401	8	3
10,402	0	8
10,403	1	3
10,404	2	5
10,405	0	6
10,406	0	3
10,407	0	5
10,408	0	8
10,409	0	4
10,410	0	3
10,411	1	5
10,412	1	9
10,413	0	7
10,414	2	1
10,415	0	8
10,416	0	8
10,417	1	3
10,418	0	9
10,419	0	7
10,420	0	3
10,421	1	6
10,422	0	9
10,423	0	3
10,424	6	3
10,425	0	9
10,425*	0	3
10,426	0	7
10,427	3	5
10,428	0	9
10,429 *not enrolled.*		
10,430	0	7
10,431	0	6
10,432	1	4
10,433	1	2
10,434	1	3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
10,435	0 3	10,503	1 1	10,572	0 3	10,640	0 11
10,436	4 0	10,504	0 4	10,573	1 7	10,641 *not enrolled.*	
10,437	0 11	10,505	0 4	10,574	0 5	10,642	0 8
10,438	0 8	10,506	1 3	10,575	0 9	10,643	0 7
10,439	0 5	10,507	0 3	10,576	1 8	10,644	0 5
10,440	1 5	10,508	2 2	10,577	0 9	10,645	0 11
10,441	0 7	10,509	0 10	10,578	1 0	10,646	0 3
10,442	0 9	10,510 *not enrolled.*		10,579	0 6	10,647	1 7
10,443	0 6	10,511	1 9	10,580 *not enrolled.*		10,648	0 3
10,444	0 3	10,512	3 6	10,581	0 5	10,649	4 10
10,445	2 4	10,513 *not enrolled.*		10,582	0 7	10,650	0 9
10,446	0 5	10,514	2 2	10,583	0 4	10,651 *not enrolled.*	
10,447	16 3	10,515	0 9	10,584	3 0	10,652	2 4
10,448	1 0	10,516	0 9	10,585	0 9	10,653	0 3
10,449	1 4	10,517	1 7	10,586	0 8	10,654	0 6
10,450	1 10	10,518	0 9	10,587	1 0	10,655	3 2
10,451	0 3	10,519	0 7	10,588	0 6	10,656	0 3
10,452	0 10	10,520	0 4	10,589	2 6	10,657	1 4
10,453	1 3	10,521	1 2	10,590	0 10	10,658	2 3
10,454	1 0	10,522	0 5	10,591	0 10	10,659	2 10
10,455	0 9	10,523	3 4	10,592	1 8	10,660	0 6
10,456	1 3	10,524	0 4	10 593 *not enrolled.*		10,661	0 8
10,457	1 3	10,525	2 1	10,594	0 10	10,662	1 10
10,458	1 6	10,526	0 8	10,595	0 6	10,663 *not enrolled.*	
10,459	0 6	10,527 *not enrolled.*		10,596	0 4	10,664	0 4
10,460	1 0	10,528	0 3	10,597	0 7	10,665	0 3
10,461	1 10	10,529	0 5	10,598	0 3	10,666	0 4
10,462	0 9	10,530	0 3	10,599	0 9	10,667	1 4½
10,463	1 7	10,531	3 1	10,600	0 3	10,668	1 5½
10,464	0 7	10,532	0 9	10,601 *not enrolled.*		10,669	0 11
10,465	0 7	10,533	0 6	10,602	0 3	10,670	1 0
10,466	1 1	10,534	0 7	10,603	1 11	10,671	1 9
10,467	0 7	10,535	1 4	10,604	0 9	10,672	0 10
10,468	1 3	10,536	1 5	10,605	0 6	10,673	0 3
10,468*	0 3	10,537	1 11	10,606	0 9	10,674	0 11
10,469	1 11	10,538	1 4	10,607	0 4	10,675	0 6
10,470	0 6	10,539	0 7	10,608	2 2	10,676	0 3
10,471	0 8	10,540	1 2	10,609	2 0	10,677	0 3
10,472	1 0	10,541	0 3	10,610	4 7	10,678	0 4
10,473	0 6	10,542	1 4	10,611	1 1	10,679	0 3
10,474	0 4½	10,543	0 10	10,612	1 4	10,680	0 7
10,475	0 3½	10,544	0 10	10,613	0 6	10,681	1 4
10,476	1 0	10,545	1 4	10,614	0 4	10,682	0 6
10,477	1 4	10,546	3 10	10,614*	0 5	10,683	0 6½
10,478	1 7	10,547	1 3	10,615	0 3	10,684	0 4
10,479	2 1	10,548	0 5	10,616	0 4	10,685	1 7
10,480	0 5	10,549	1 8	10,617	0 9	10,686	0 4
10,481	1 6	10,550	0 11	10,618	0 3	10,687	0 7
10,482	0 3	10,551	0 3	10,619	1 6	10,688	1 1
10,483	0 9	10,552	0 7	10,620	0 3	10,689	0 6
10,484	0 10	10,553	1 4	10,621	0 9	10,690	0 7
10,485	0 6	10,554	2 2	10,622	0 3	10,691	0 9
10,486	0 6	10,555	0 3	10,623	0 6	10,692	0 4
10,487	0 9	10,556	2 4	10,624	0 10	10,693	0 10
10,488	0 10	10,557	0 11	10,625	0 3	10,694	0 5
10,489	0 4	10,558	2 3	10,626	0 6	10,695	3 11
10,490	1 0	10,559 *not enrolled.*		10,627	0 5	10,696	1 1½
10,491	0 9	10,560	1 1	10,628	0 9	10,697	0 9½
10,492	0 6	10,561	0 7	10,629	1 1	10,698	1 3
10,493	1 11	10,562	0 7	10,630	0 3	10,699	0 7
10,494	1 4	10,563	0 9	10,631	0 10	10,700	0 7
10,495	1 3	10,564	0 10	10,632	0 3	10,701	1 1
10,496	0 3	10,565	5 7	10,633	0 3	10,702	1 3
10,497 *extension of* 6036.		10,566	0 3	10,634	0 9	10,703	0 3
10,498	1 0	10,567	0 8	10,635	0 3	10,704	1 3
10,499	1 4	10,568	0 9	10,636	1 5	10,705	0 6
10,500	0 9½	10,569	0 3	10,637	0 9	10,706	0 9
10,501	0 9	10,570	1 7	10,638	0 8	10,707	0 3
10,502	2 3	10,571	1 1	10,639	1 7	10,708	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
10,709	0 7	10,778 *extension of* 6146.		10,846	3 3	10,914 *not enrolled.*	
10,710	0 6	10,779	6 6	10,847	0 5	10,915	0 3
10,711	0 9	10,780	0 8	10,848 *not enrolled.*		10,916	0 7
10,712	1 7	10,781	0 8	10,849	0 6½	10,917	0 6
10,713	1 4	10,782	3 0	10,850	0 9	10,918	1 2
10,714	0 9	10,783	2 9	10,851	0 6	10,919	0 7
10,715	0 3	10,784	0 5	10,852 *not enrolled.*		10,920	0 3
10,716	8 9	10,785	0 9	10,853	0 4	10,921	0 7
10,717	0 11	10,786 *not enrolled.*		10,854	0 6	10,922	0 11
10,718	0 5½	10,787	0 6	10,855	0 6	10,923	0 10
10,719	1 4	10,788	1 5	10,856	0 10	10,924	0 8
10,720	0 10	10,789	2 0	10,857	0 9	10,925 *not enrolled.*	
10,721	0 9	10,790	1 1	10,858 *not enrolled.*		10,926	0 10
10,722	1 10	10,791	1 1	10,859	1 7	10,927	0 3
10,723	1 6	10,792	0 5	10,859*	0 3	10,928	0 5½
10,724	0 11	10,793	3 11	10,860	0 4	10,929	0 10
10,725	1 3	10,794	1 2	10,861	1 5	10,930	1 7
10,726	1 0½	10,795	0 8	10,862	0 9	10,931	3 1
10,727	0 8	10,796	0 7	10,863	0 7	10,932	2 2
10,728	0 6½	10,797	0 4	10,864	0 5	10,933	1 10
10,729	0 8	10,798	0 7	10,865	0 6	10,934	2 0
10,730	1 4	10,799	1 5	10,866	0 6	10,935	0 4
10,731	5 1	10,800	0 9	10,867	0 3	10,936	0 9
10,732	0 10	10,801	1 1	10,868 *not enrolled.*		10,937	0 11
10,733	0 4	10,802	2 8	10,869	0 6	10,938	0 5½
10,734	2 4	10,803	1 10	10,870	0 3	10,939	1 5½
10,735	1 1	10,804	0 10	10,871	1 1	10,940 *not enrolled.*	
10,736	1 6	10,805	0 4	10,872	1 2	10,941	0 6
10,737	0 11	10,806	0 3	10,873	1 5	10,942	0 5
10,738	1 6	10,807	0 9	10,874	0 5	10,943	0 6
10,739	2 4	10,808	1 4½	10,875 *not enrolled.*		10,944	0 6
10,740	1 1	10,808*	0 3	10,876	0 10	10,945	0 6
10,741	0 3	10,809	0 10	10,877	0 10	10,946	0 5
10,742	2 6	10,810	0 8	10,878	0 11	10,947	1 2
10,743	0 3	10,811	2 7	10,879	1 3	10,948	0 10
10,744	0 3	10,812	1 5	10,880	2 5	10,949	2 3
10,745	0 8	10,813	0 9	10,881	0 3	10,950 *not enrolled.*	
10,746	2 2	10,814	0 10	10,882	1 5	10,951	3 4
10,747	0 7	10,815	0 9	10,883	1 1	10,952	0 10
10,748 *not enrolled.*		10,816	2 9	10,884	2 6	10,953	0 9
10,749	0 6	10,817 *not enrolled.*		10,885	0 3	10,954 *not enrolled.*	
10,750	0 7	10,818	0 9	10,886	0 3	10,955	0 4
10,751	0 3	10,819	2 9	10,887	0 8	10,956	0 7
10,752	2 11	10,820	0 10	10,888 *not enrolled.*		10,957	1 4
10,753	1 10	10,821	1 7	10,889	2 5	10,958	0 3
10,754	0 7	10,822	0 9	10,890	0 7	10,959	0 9
10,755	0 6	10,823	0 9	10,891	1 0	10,960	0 9
10,756	4 4	10,824	0 6	10,892	0 10	10,961	0 5
10,757	0 3	10,825	0 6	10,893	0 3	10,962	0 4
10,758	1 4	10,826	1 6	10,894	1 1	10,963	0 9
10,759	0 3	10,827	0 9	10,895	0 9	10,964	0 9
10,760	0 3	10,828	0 11	10,896	0 8	10,965	0 3
10,761	1 4	10,829	0 3	10,897	5 0	10,966	0 3
10,762	0 6	10,830	1 3	10,898	1 7	10,967	0 6
10,763	0 9	10,831 *not enrolled.*		10,899	0 3	10,968	0 4
10,764 *not enrolled.*		10,832	1 4	10,900	0 9	10,969	0 6
10,765	1 0	10,833	0 11	10,901	0 9	10,970	0 4
10,766	0 9	10,834	0 6	10,902	1 8	10,971	0 4
10,767 *not enrolled.*		10,835	1 10	10,903	0 3	10,972	0 3
10,768	0 5	10,836	2 1	10,904 *not enrolled.*		10,973	0 3
10,769	0 3	10,837	1 6	10,905	2 11	10,974	0 9
10,770	0 3	10,838	7 0	10,906	0 10	10,975	0 11
10,771	0 5	10,839 *not enrolled.*		10,907	1 0	10,976	0 5
10,772	0 5	10,840	0 9	10,908	1 1	10,977	0 5
10,773	0 10	10,841	0 6	10,909	1 0	10,978	1 1
10,774	0 10	10,842	1 9	10,910	0 7	10,979	1 7
10,775	0 6	10,843	0 9	10,911	1 2	10,980	0 3
10,776	1 7	10,844	0 3	10,912	0 6	10,981	2 3
10,777	0 9	10,845	1 0	10,913	1 3	10,982	0 10

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
10,983	0 6	11,052 *not enrolled.*		11,121	0 8	11,189	1 2
10,984	0 9	11,053	0 10	11,122	0 4	11,190	0 3
10,985	0 3	11,054	0 9	11,123	0 4	11,191	0 10
10,986	1 4	11,055	0 7	11,124	1 2	11,192 *not enrolled.*	
10,987	0 10	11,056	0 10	11,125	1 3	11,193	1 2
10,988	0 3	11,057 *not enrolled.*		11,126	0 3	11,194	0 9
10,989	1 4	11,058	0 5	11,127	0 10	11,195	0 8
10,990	1 0	11,059	0 3	11,128	10 8	11,196	2 10
10,991	0 8	11,060	1 5	11,129	2 1	11,197	4 6
10,992	0 9	11,061	2 5	11,130	0 5	11,198	0 9
10,993	0 9	11,062	0 10	11,131	0 6	11,199	5 9
10,994	3 0	11,063	0 10	11,132	1 10	11,200	0 9
10,995	0 9	11,064 *not enrolled*		11,133	0 9	11,201	0 9
10,996 *not enrolled.*		11,065	0 3	11,134	0 3	11,202	1 3
10,997	0 6	11,066	1 1	11,135	0 4	11,203	3 4
10,998	0 8	11,067	2 5	11,136	1 6	11,204	0 3
10,999	0 6	11,068	2 3	11,137 *extension of* 6250.		11,205	0 11
11,000	0 5	11,069	0 10	11,138	0 8	11,206	0 9
11,001	0 10	11,070	0 5	11,139	1 8	11,207	1 7
11,002	0 3	11,071	1 0	11,140	1 5	11,208	0 6
11,003	0 11	11,072 *not enrolled.*		11,141	0 6	11,209	1 3
11,004	0 6	11,073	1 6	11,142	0 3	11,210	0 10
11,005	0 4	11,074	0 9	11,143	0 6	11,211	1 0
11,006	0 6	11,075	1 1	11,144	0 9	11,212	2 4
11,007	0 3	11,076	0 4	11,145	0 8	11,213	0 3
11,008	0 4	11,077	7 6	11,146 *not enrolled.*		11,214	0 3
11,009	0 9	11,078	0 3	11,147	0 5	11,215	0 7
11,010	0 9	11,079	0 3	11,148	1 11	11,216	3 7
11,011	2 3½	11,080	1 1	11,149	3 7	11,217	0 6
11,012	0 9	11,081	1 0	11,150	0 9	11,218	0 6
11,013	1 9	11,082	1 11	11,151	1 8	11,219	3 0
11,014	0 10	11,083	0 9	11,152	2 3	11,220	0 3
11,015	0 10	11,084	0 5½	11,153	0 5	11,221	1 11
11,016	0 8	11,085	0 7	11,154	0 6	11,222	0 10
11,017	2 7	11,086	2 0	11,155	2 8	11,223 *not enrolled.*	
11,018	0 10	11,087	0 10	11,156	1 9	11,224	0 11
11,019	0 5	11,088	1 7	11,157	0 5	11,225	0 10
11,020	8 2	11,089 *not enrolled.*		11,158	3 3	11,226	1 3
11,021	1 10	11,090	1 4	11,159	0 3	11,227	1 7
11,022 *not enrolled.*		11,091	0 8	11,160 *not enrolled.*		11,228	0 6
11,023	0 6	11,092	0 6	11,161	1 1	11,229	0 8
11,024	0 10	11,093	0 3	11,162	0 10	11,230	0 6
11,025	2 6	11,094 *not enrolled.*		11,163 *not enrolled.*		11,231	0 5
11,026	1 4	11,095	1 2	11,164	0 10	11,232	0 9
11,027	0 5	11,096	0 5	11,165	0 6	11,233	1 0
11,028	0 3	11,097	1 2	11,166 *not enrolled.*		11,234	4 1
11,029	0 6	11,098	1 1	11,167	0 8	11,235	2 11
11,030	1 7	11,099	0 10	11,168	1 7	11,236	0 10
11,031	3 0	11,100	3 6	11,169	0 3	11,237	0 9
11,032	0 7	11,101	1 3	11,170	0 9	11,238 *extension of* 6276.	
11,033	0 5	11,102	1 4	11,171	0 10	11,239	0 6½
11,034	2 11	11,103	0 10½	11,172	1 1	11,240	0 6
11,035	0 10	11,104	1 6	11,173	0 6	11,241	1 2
11,036	1 1	11,105	0 9	11,174	0 6½	11,242	1 4
11,037	0 6	11,106	2 1	11,175	0 3	11,243	1 6
11,038	1 4	11,107	0 5	11,176	1 3	11,244	0 6
11,039	0 9	11,108	0 6	11,177	0 5	11,245	0 4
11,040	1 10	11,109	0 6	11,178	0 6	11,246	0 9
11,041	0 10	11,110	1 6	11,179 *not enrolled.*		11,247	4 7
11,042	14 3	11,111	0 6	11,180	0 6	11,248	0 6
11,043	0 6	11,112	0 4	11,181	0 10	11,249	0 9
11,044	4 6	11,113	0 9	11,181*	0 4	11,250	0 10
11,045	0 4	11,114	7 8	11,182	0 9	11,251	2 1
11,046 *not enrolled.*		11,115	0 10	11,183	0 6	11,252	0 4
11,047	0 9	11,116	1 4	11,184	0 10	11,253	0 9
11,048 *not enrolled.*		11,117	0 8	11,185	0 8	11,254	0 9
11,049 *not enrolled.*		11,118	2 4	11,186	1 2	11,255	1 3
11,050	1 0	11,119	0 3	11,187	0 7	11,256	0 11
11,051	1 5	11,120	0 3	11,188	0 6	11,257	0 10

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
11,258	0 6	11,327 *not enrolled.*		11,396	0 9	11,464*	0 3
11,259	1 6	11,328 *extension of* 6307.		11,397	0 10	11,464**	0 6
11,260	1 2	11,329	0 3	11,398	0 6	11,465	0 9
11,261	3 4	11,330	1 9	11,399	0 3	11,466	0 5
11,262	0 4	11,331	1 1	11,400	0 6	11,467	1 4
11,263	0 4	11,332	2 7	11,401	1 7	11,468	0 6
11,264	0 6	11,333	0 4	11,402	0 4	11,469	2 1
11,265	0 4	11,334	0 5	11,403	0 8	11,470	5 4
11,266	1 2	11,335	1 3	11,404	1 6	11,471	2 0
11,267	0 9	11,336	0 10	11,405	0 9	11,472	1 1
11,268	0 6	11,337	0 10	11,406	0 11	11,473	5 7
11,269	1 1	11,338	0 3	11,407	0 3½	11,474	0 4
11,270	1 1	11,339	1 4	11,408	0 10	11,475	0 5
11,271	1 4	11,340	3 3	11,409	0 4	11,476	0 9
11,272	0 3	11,341	0 9	11,410	0 3	11,477	0 6
11,273	1 4	11,342	0 6½	11,411	0 10	11,478	0 6
11,274	1 2	11,343	0 10	11,412 *not enrolled.*		11,479	0 3
11,275	1 9	11,344	6 9	11,413	2 8	11,480	6 5
11,276	1 1	11,345	0 9	11,414	0 7	11,481	3 6
11,277	0 9	11,346	0 8½	11,415	1 5	11,482	1 7
11,278	1 2	11,347	0 3	11,416	0 4	11,483	0 3
11,279	0 4	11,348	1 0	11,417	0 4	11,484 *not enrolled.*	
11,280	0 6	11,349	2 1	11,418	0 10	11,485	2 1
11,281 *not enrolled.*		11,350 *not enrolled.*		11,419 *not enrolled.*		11,486	0 9
11,282	0 6	11,351 *not enrolled.*		11,420	0 6	11,487	0 6
11,283	0 9	11,352	1 5	11,421	0 5	11,488	1 3
11,284	1 10	11,353	3 0	11,422	1 4	11,489	0 8
11,285	3 10	11,354	0 9	11,423	0 9	11,490	2 2
11,286	1 7	11,355	0 6	11,424	1 3	11,491	1 8
11,287	0 8	11,356	0 6	11,425	0 8	11,492	0 10
11,288	0 8	11,357	0 6	11,426	0 7	11,493	1 0
11,289	0 4	11,358	1 5	11,427	1 0	11,494	0 8
11,290	0 5	11,359	1 4	11,428	1 4	11,495	2 8
11,291	1 8	11,360	1 4	11,429	1 4	11,496	1 9
11,292	1 6	11,361	2 5	11,430	0 10	11,497	1 9
11,293	0 7	11,362	0 9	11,431 *not enrolled.*		11,498	1 5
11,294	1 2	11,363	0 10	11,432	1 8	11,499	3 5
11,295	1 4	11,364	0 11	11,433	0 7	11,500	0 8
11,296	0 7	11,365	6 4	11,434	0 4	11,501	1 3
11,297	0 6	11,366	0 6	11,435	1 2	11,502	0 9
11,298	0 9	11,367	0 4	11,436	0 9	11,503	0 8
11,299	1 0	11,368	0 10	11,437	0 10	11,504	1 7
11,300	1 4	11,369 *not enrolled.*		11,438	0 6	11,505	4 9
11,301	0 3	11,370	1 4	11,439	1 1	11,506	0 9
11,302 *not enrolled.*		11,371	0 9	11,440	0 11	11,507	0 9
11,303	2 7	11,372	0 6	11,441	1 0	11,508	1 2
11,304	1 2	11,373	1 0	11,442	1 4	11,509	1 11
11,305	0 6	11,374	0 9	11,443	0 5	11,510	1 5
11,306	0 3	11,375	0 5	11,444	3 5	11,511	0 8
11,307	0 3	11,376	1 3	11,445	2 0	11,512	0 4
11,308	0 10	11,377	1 9	11,446	0 4	11,513	1 2
11,309	0 9	11,378	2 10	11,447	0 5½	11,514 *not enrolled.*	
11,310 *not enrolled.*		11,379	1 7	11,448	0 10	11,515	1 1
11,311	0 10	11,380	0 10	11,449	0 9	11,516	0 3
11,312	0 10	11,381	0 7	11,450	1 9	11,517	0 6
11,313	0 7	11,382	0 4	11,451	0 11	11,518	0 7
11,314	0 6	11,383	0 9	11,452	2 3	11,519	1 4
11,315	1 10	11,384	1 10	11,453	3 1	11,520	0 6
11,316	0 4	11,385	0 8	11,454	0 9	11,521	0 3
11,317	5 3	11,386	2 0	11,455	0 5	11,522	0 8
11,318	2 3	11,387	2 6	11,456	0 9	11,523	1 4
11,319	1 4	11,388	2 2	11,457	0 8	11,524 *not enrolled.*	
11,320	0 6	11,389	1 4	11,458	0 9	11,525	1 3
11,321	0 5	11,390	1 5	11,459	3 5	11,526	0 10
11,322	0 3	11,391	2 8	11,460	0 11	11,527	0 7
11,323 *not enrolled.*		11,392 *not enrolled.*		11,461	3 9	11,528	0 3
11,324	0 8	11,393	0 7½	11,462	0 9	11,529	0 3
11,325	0 3	11,394	1 9	11,463 *not enrolled.*		11,530 *not enrolled.*	
11,326	0 10	11,395	0 9	11,464	1 6	11,531 *not enrolled.*	

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
11,532	1 7	11,601	0 11	11,670	0 9	11,739	0 4
11,533	0 9	11,602	0 10	11,671	0 5	11,740	1 6
11,534	0 8	11,603	1 1	11,672	1 0	11,741	1 0
11,535	0 10	11,604	0 5	11,673	0 8	11,742 *not enrolled.*	
11,536 *not enrolled.*		11,605	0 9	11,674	0 4	11,743	3 4
11,537	1 3	11,606	0 9	11,675	3 6	11,744	1 0
11,538	2 8	11,607	2 8	11,676	0 8	11,745	1 1
11,539	1 3	11,608	1 4	11,677	0 6	11,746	0 10
11,540	1 7	11,609	0 8	11,678	0 6	11,747	1 10
11,541	0 10	11,610 *not enrolled.*		11,679 *not enrolled.*		11,748	2 0
11,542	1 4	11,611	0 11	11,680	1 5	11,749	1 10
11,543	2 1	11,612	2 6	11,681	2 4	11,750	1 0
11,544	0 3	11,613	0 10	11,682	1 1	11,751	2 4
11,545	0 5	11,614	0 7	11,683	1 0	11,752	1 5
11,546	0 10	11,615	3 9	11,684	1 0	11,753	1 4
11,547	0 10	11,616	0 5	11,685	0 11	11,753*	0 4
11,548	0 9	11,617	1 4	11,686	0 10	11,754	1 11
11,549	0 3	11,618	1 1	11,687 *not enrolled.*		11,755	1 6
11,550	0 11	11,619	0 9	11,688	2 1	11,756	0 6
11,551	0 9	11,620	7 8	11,689	1 0	11,757	0 6
11,552 *not enrolled.*		11,621	0 10	11,690	0 10	11,758	0 4
11,553	1 3	11,622	1 1	11,691	0 3	11,759	0 3
11,554	0 11	11,623 *not enrolled.*		11,692 *not enrolled.*		11,760	1 7
11,555	0 3	11,624	0 3	11,693	0 10	11,761 *not enrolled.*	
11,556	0 5	11,625	3 9	11,694	3 1	11,762	0 10
11,557	1 4	11,626	0 7	11,695	1 8	11,763	2 5
11,558	0 6	11,627	1 0	11,696	0 8	11,764	1 10
11,559 *not enrolled.*		11,628	1 8	11,697	0 6	11,765	2 6
11,560	0 6	11,629 *not enrolled.*		11,698	1 1	11,766	0 5
11,561	0 3	11,630	0 7	11,699	2 2	11,767	1 10
11,562	0 9	11,631	1 3	11,700	0 10	11,768	1 6
11,563	0 3	11,632	0 4	11,701	0 8	11,769	0 6
11,564	1 0	11,633	0 3	11,702	0 9	11,770 *not enrolled.*	
11,565 *not enrolled.*		11,634	3 2	11,703	0 10	11,771	0 5
11,566	0 9	11,635	0 5	11,704	0 9	11,772	1 4
11,567	0 3	11,636	0 6	11,705	1 3½	11,773	0 3
11,568	0 6	11,637	1 3	11,706	1 5	11,774	0 3
11,569	1 0	11,638	2 3	11,707	1 11	11,775	0 3
11,570	1 11	11,639	1 7	11,708	0 5	11,776	1 8
11,571	0 8	11,640	2 3	11,709	1 6	11,777 *extension of* 6446.	
11,572	1 4	11,641	1 3	11,710	0 10	11,778	1 8
11,573	0 9	11,642	1 5	11,711	0 9	11,779	1 0
11,574	0 10	11,643	3 1	11,712	1 0	11,780	0 6
11,575	1 10	11,644 *not enrolled.*		11,713	0 4	11,781	1 4
11,576	7 9	11,645	1 9	11,714	0 3	11,782	0 10
11,577	0 6	11,646	0 8	11,715	2 6	11,783	2 9
11,578	1 0	11,647 *not enrolled.*		11,716	2 1	11,784 *not enrolled.*	
11,579	0 6	11,648	0 7	11,717	0 9	11,785	0 9
11,580	0 6	11,649	2 2	11,718	1 1	11,786	1 2
11,581	0 3	11,650	1 2	11,719	0 11	11,787	2 0
11,582	0 8	11,651	1 2	11,720	0 11	11,788	0 6
11,583	0 8	11,652	1 1	11,721	0 5	11,789	0 9
11,584	5 0	11,653	0 3	11,722	1 0	11,790	1 2
11,585	0 6	11,654	1 0	11,723	0 3	11,791	3 3
11,586	0 6	11,655	0 5	11,724	1 1	11,792	0 6
11,587	0 4	11,656	0 3	11,725	0 3	11,793	1 11
11,588	0 6	11,657	0 9½	11,726	0 3	11,794	2 2
11,589	0 8	11,658	3 8	11,727	2 10	11,795	0 8
11,590	0 5	11,659	1 2	11,728	1 3	11,796	2 3
11,591	1 0	11,660	0 10	11,729	0 10	11,797	0 6
11,592	0 9	11,661	0 11	11,730	1 11	11,798	1 3
11,593	1 8	11,662	0 9	11,731 *not enrolled.*		11,799	1 8
11,594	1 3	11,663 *not enrolled.*		11,732	0 7	11,800	2 11
11,595	1 4	11,664	4 0	11,733	1 2	11,801	0 9
11,596	0 3	11,665 *not enrolled.*		11,734	0 9	11,802	0 3
11,597	2 4	11,666	0 11	11,735	1 3	11,803 *not enrolled.*	
11,598	1 3	11,667	1 7	11,736	2 10	11,804	0 6
11,599	0 10	11,668	0 7	11,737	0 3	11,805	0 6
11,600	0 3	11,669	1 3	11,738	0 9	11,806	1 8

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
11,807	0 9	11,876	2 0	11,945	0 9	12,014	0 7
11,808	0 3	11,877	1 3	11,946	3 8	12,015	0 11
11,809	1 10	11,878	0 5	11,947	0 10	12,016	0 10
11,810	0 4	11,879	0 11	11,948	2 3	12,017	*not enrolled.*
11,811	0 3	11,880	1 6½	11,949	2 4	12,018	*not enrolled.*
11,812	0 10	11,881	1 5	11,950	1 3	12,019	0 11
11,813	1 1	11,882	*not enrolled.*	11,951	0 5	12,020	0 9
11,814	1 10	11,883	4 0	11,952	0 11	12,021	0 10
11,815	1 6	11,884	*not enrolled.*	11,953	0 6	12,022	0 4
11,816	0 5	11,885	1 2	11,954	1 5	12,023	0 3
11,817	0 6	11,886	0 9	11,955	1 8	12,024	2 0
11,818	1 1	11,887	3 3	11,956	1 9	12,025	1 0
11,819	2 8	11,888	1 1	11,957	0 5	12,026	3 0
11,820	0 10	11,889	0 9	11,958	0 3	12,027	0 9
11,821	0 11	11,890	2 5	11,959	0 9	12,028	0 7
11,822	1 8	11,891	0 3	11,960	2 9	12,029	0 6
11,823	0 6	11,892	1 1	11,961	1 0	12,030	0 7
11,824	0 9	11,893	0 3	11,962	1 8	12,031	0 7
11,825	0 6	11,894	1 2	11,963	2 4	12,032	0 6
11,826	0 10	11,895	1 0	11,964	2 5	12,032*	0 3
11,827	0 5	11,896	1 4	11,965	0 7	12,033	0 10
11,828	0 3	11,897	1 1	11,966	0 4	12,034	0 3
11,829	*not enrolled.*	11,898	*not enrolled.*	11,967	0 10	12,035	0 5
11,830	0 5	11,899	8 4	11,968	0 9	12,036	2 7
11,831	0 3	11,900	0 5	11,969	1 9	12,037	4 4
11,832	1 10	11,901	0 3	11,970	0 3	12,038	*not enrolled.*
11,833	0 3	11,902	4 1	11,971	0 4	12,039	8 3
11,834	0 6	11,903	1 8	11,972	1 9	12,040	0 4
11,835	3 0	11,904	1 6	11,973	0 3	12,041	0 5
11,836	1 10	11,905	1 10	11,974	1 7	12,042	0 7
11,837	0 7	11,906	0 10	11,975	0 4	12,043	1 6
11,838	1 9	11,907	1 2½	11,976	1 9	12,044	1 4
11,839	*not enrolled.*	11,908	0 6	11,977	2 5	12,045	1 1
11,840	1 4	11,909	1 6	11,978	0 9	12,046	0 3
11,841	0 6	11,910	0 9	11,979	0 4	12,047	0 6
11,842	0 5	11,911	0 9	11,980	0 7	12,048	0 7½
11,843	0 8	11,912	0 9	11,981	0 3	12,049	0 8
11,844	0 8	11,913	1 6	11,982	5 0	12,050	0 9
11,845	0 9	11,914	0 7	11,983	2 3	12,051	0 11
11,846	0 8	11,915	2 3	11,984	0 10	12,052	0 10
11,847	1 9	11,916	1 11	11,985	0 5	12,053	2 1
11,848	0 7	11,917	0 7	11,986	1 8	12,054	2 5½
11,849	2 1	11,918	1 7	11,987	0 10	12,055	0 3
11,850	1 1	11,919	1 9	11,988	*not enrolled.*	12,056	0 3
11,851	0 6	11,920	0 9	11,989	*not enrolled.*	12,057	0 9
11,852	3 3	11,921	0 5	11,990	0 5	12,058	1 3
11,853	0 6	11,922	0 3	11,991	0 4	12,059	0 7
11,854	0 6	11,923	0 8	11,992	0 11	12,060	3 0
11,855	0 6	11,924	0 3	11,993	0 4	12,061	*not enrolled.*
11,856	0 9	11,925	0 11	11,994	0 11½	12,062	1 0
11,857	0 9	11,926	4 10	11,995	0 3	12,063	0 3
11,858	0 3	11,927	0 6	11,996	0 3	12,064	0 9
11,859	1 0	11,928	1 0	11,997	0 6	12,065	0 6
11,860	0 6	11,929	0 5	11,998	1 3	12,066	0 9
11,861	0 9	11,930	0 6	11,999	*not enrolled.*	12,067	0 6
11,862	1 3	11,931	0 3	12,000	0 10	12,068	0 5
11,863	1 4	11,932	1 10	12,001	1 3	12,069	4 7
11,864	0 8½	11,933	0 9	12,002	1 4	12,070	0 7
11,865	0 3	11,934	1 5	12,003	0 7	12,071	1 11
11,866	*not enrolled.*	11,935	0 5	12,004	2 10	12,072	3 3
11,867	0 6	11,936	0 8	12,005	*not enrolled.*	12,073	0 9
11,868	*not enrolled.*	11,937	0 3	12,006	1 10	12,074	1 1
11,869	1 4	11,938	0 3	12,007	0 4	12,075	1 8
11,870	*not enrolled.*	11,939	0 4	12,008	0 7	12,076	1 3
11,871	1 0	11,940	0 9	12,009	0 9	12,077	3 6
11,872	0 3	11,241	*not enrolled.*	12,010	0 7	12,078	0 10
11,873	0 9	11,942	0 10	12,011	0 10	12,079	0 10
11,874	0 4	11,943	0 5	12,012	0 8	12,080	1 9
11,875	0 9	11,944	2 2	12,013	1 7	12,081	1 5

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
12,082	0 10	12,150	0 10	12,219	0 6	12,287	0 10
12,083	1 3	12,151 *not enrolled.*		12,220	3 5	12,288	0 5
12,084	6 0	12,152	0 7	12,221	4 7	12,289	0 10
12,085	0 3	12,153	0 9	12,222	1 0	12,290	0 4
12,086	2 4	12,154	1 1	12,223	1 8	12,291	0 3
12,087	1 4	12,155	5 0	12,224	1 3	12,292	1 3
12,088	1 0	12,156	2 8	12,225	3 11	12,293	3 4
12,089	3 7	12,157	0 7	12,226	0 3	12,294	0 3
12,090	1 8	12,158	1 3	12,227 *not enrolled.*		12,295	1 2
12,091	1 0	12,159	1 4	12,228	0 3	12,296	0 8
12,092	0 7	12,160	0 3	12,229	3 6	12,297	0 3
12,093	0 6	12,161	0 8	12,230	0 9	12,298	1 6
12,094	3 6	12,162	0 3	12,231	3 2	12,299	1 3½
12,095	2 5	12,163	1 4	12,232	3 3	12,299*	0 4
12,096	1 4	12,164	1 0	12,232*	3 3	12,300	3 11
12,097	0 9	12,165	0 9	12,233	0 9	12,301	0 4
12,098	0 9	12,166	0 6	12,234	1 1	12,302	1 1
12,099	2 4	12,167	1 10	12,235	0 6	12,303	1 9
12,100	0 10	12,168	0 6	12,236	1 3	12,304	1 2
12,101	4 1	12,169	2 5	12,237	1 8	12,305	1 0
12,102 *not enrolled.*		12,170	1 6	12,238	0 9	12,306	2 0
12,103	0 3	12,171	4 3	12,239	0 3	12,307	1 0
12,104	0 8	12,172	1 3	12,240	1 3	12,308	0 6½
12,105	2 3	12,173	0 10	12,241	0 3½	12,309	0 11
12,106	0 6	12,174	2 5	12,242	1 0	12,310	0 9
12,107	0 9	12,175	0 3	12,243	0 4	12,311	2 5
12,108	0 11	12,176	1 1	12,244	2 11	12,312	0 9
12,109	0 4	12,177	0 9	12,245	0 4	12,313	0 3
12,110	1 2	12,178	2 1	12,246	0 7	12,314	0 4
12,111	0 9	12,179	0 3	12,247	1 11	12,315	2 6
12,112	0 6	12,180	0 3	12,248	4 0	12,316	0 4
12,113	0 4	12,181	1 1	12,249	1 1	12,317	2 1
12,114	0 3	12,182	1 9	12,250	0 10	12,318	0 10
12,115	1 1	12,183	4 6	12,251	0 4	12,319	2 3
12,116	10 6	12,184	0 10	12,252 *not enrolled.*		12,320	0 9
12,117	0 9	12,185	1 9	12,253	0 6	12,321	2 1
12,118	1 1	12,186	0 9	12,254	0 10	12,322 *not enrolled.*	
12,119	0 5	12,187	0 8	12,255	0 9	12,323 *not enrolled.*	
12,120	0 4	12,188	0 10	12,256	0 7	12,324	0 3
12,121	1 0	12,189	0 6	12,257	2 7	12,325	0 4
12,122	7 7	12,190	2 4	12,258 *not enrolled.*		12,326	0 5
12,122*	0 4	12,191	0 4	12,259	0 9	12,327	3 4
12,123	0 6	12,192	0 6	12,260	1 3	12,328	2 5
12,124	1 7	12,193	1 6	12,261	0 6	12,329	1 0
12,125	2 0	12,194	1 6	12,262	0 5	12,330	2 6
12,126	0 7	12,195	3 8	12,263	0 3	12,331	0 11
12,127	0 6	12,196	0 11	12,264	0 9	12,332 *not enrolled.*	
12,128	0 3	12,197	1 3	12,265 *not enrolled.*		12,333	0 3
12,129	0 7	12,198	2 1	12,266	1 0	12,334	0 10
12,130	1 1	12,199	1 0	12,267	1 4	12,335	1 6
12,131	0 10	12,200	1 6	12,268	0 6	12,336	1 5
12,132	0 10	12,201	7 0	12,269	3 2	12,337	2 10
12,133	0 11	12,202	0 10	12,270	1 10	12,338	0 8
12,134	1 0	12,203	0 3	12,271	3 8	12,339	0 8
12,135	0 11	12,204	1 0	12,272	0 3	12,340	1 0
12,136	2 2	12,205	1 0	12,273	0 5	12,341 *not enrolled.*	
12,137	3 10	12,206	0 10	12,274	0 9	12,342	0 11
12,138	0 5	12,207	4 9	12,275	0 10	12,343	0 6
12,139	0 11	12,208	0 3	12,276	2 1	12,344	3 2
12,140	1 7	12,209	1 11	12,277	1 11	12,345	0 3
12,141	0 3	12,210	0 5½	12,278	1 2	12,346	0 10
12,142	0 3	12,211	2 3	12,279	0 8	12,347	2 4
12,143	0 8½	12,212	4 4	12,280	1 4	12,348	0 8
12,144	0 5	12,213	0 9	12,281	2 3	12,349	0 9
12,145	3 8	12,214	0 3	12,282	0 10	12,350	0 9
12,146	0 9	12,215	0 9	12,283	1 0	12,351	1 10
12,147	0 10	12,216	2 9	12,284	0 6	12,352	1 8
12,148	1 0	12,217	2 6	12,285	1 2	12,353	1 6
12,149	1 0	12,218	0 3	12,286	1 10	12,354	0 3

List of Patents Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
12,355	0 11	12,424	0 9	12,492	1 11	12,561	0 10
12,356	0 9	12,425	2 3	12,493	1 9	12,562	1 4
12,357	0 9	12,426	0 11	12,494	0 3	12,563	0 6
12,358	0 3	12,427	1 1	12,495	2 4	12,564	0 4
12,359	0 4	12,428	2 1	12,496	0 3	12,565	0 9
12,360	0 6	12,429	0 10	12,497	0 3	12,566	0 7
12,361	0 7	12,430	2 0	12,498	1 5	12,567	2 0
12,362	4 8	12,431	2 1	12,499	0 7	12,568	1 9
12,363	1 0	12,432	0 4½	12,500	1 10	12,569	0 6
12,364	1 5	12,433	0 4	12,501	0 3	12,570	1 5
12,365	2 2	12,433*	0 4	12,502	0 3	12,571	0 3
12,366	0 3	12,434	4 0	12,503 *not enrolled.*		12,572	0 7
12,367	0 9	12,435	1 4	12,504	0 6	12,573	0 3
12,368	4 9	12,436	0 5	12,505	0 8	12,574	0 5
12,369	0 9	12,437	0 3	12,506	0 9	12,575	2 6
12,370	0 7	12,438	1 10	12,507	1 1	12,576	2 7
12,371 *not enrolled.*		12,439	2 4	12,508	0 9	12,577	0 10
12,372	1 7	12,440	0 6	12,509	0 6	12,578	0 11
12,373	1 4	12,441	2 7	12,510	0 5	12,579	0 10
12,374	1 0	12,442	0 9	12,511	0 6	12,580	0 10
12,375	0 10	12,443	1 9	12,512	0 3	12,581	0 4
12,376	0 9	12,444	0 6	12,513	0 8	12,582	0 4
12,377	1 4	12,445	3 9	12,514	4 0	12,583	1 11
12,378	0 6	12,446	0 3	12,515	2 11	12,584	1 1
12,379	1 4	12,447	0 5	12,516	0 5	12,585	0 5
12,380	0 4	12,448	0 6	12,517	1 4	12,586	0 11½
12,381	0 3	12,449	0 7	12,518	3 10	12,587	0 3
12,382	6 0	12,450	3 2	12,519 *not enrolled.*		12,588 *not enrolled.*	
12,383	1 1	12,451	0 3	12,520	1 0	12,589	2 2
12,384	1 7	12,452	0 3	12,521	0 4	12,590	0 3
12,385	1 0	12,453	1 0	12,522	0 6	12,591	0 4
12,386	1 8	12,454	1 6	12,523	0 4	12,592	0 6
12,387	0 6	12,455	1 8	12,524	3 6	12,593	0 4
12,388	0 9	12,456	1 10	12,525	2 7	12,594	0 6
12,389	0 3	12,457	0 7	12,526	0 4	12,595	1 10
12,390	0 5	12,458	0 6	12,527	2 5	12,596	0 3
12,391	0 4	12,459	0 5	12,528	2 5	12,597	0 4
12,392	0 8	12,460	0 6	12,529	0 3	12,598	2 6
12,393	0 4	12,461 *not enrolled.*		12,530	0 6	12,599	0 10
12,394	1 10	12,462	2 7	12,531	2 10	12,600	1 1
12,395	1 5	12,463	1 3	12,532	0 7	12,601	1 1
12,396	2 6	12,464	0 6	12,533	1 9	12,602	1 9
12,397	2 4	12,465	2 4	12,534	0 6	12,603	2 9½
12,398	0 6	12,466	0 5	12,535	3 7	12,604	1 6
12,399	0 7	12,467	0 3	12,536	2 1	12,605	1 3
12,400	1 6	12,468 *not enrolled.*		12,537	1 3	12,606	1 9
12,401	0 4	12,469	2 11	12,538	1 8	12,607	1 7
12,402	1 2	12,470 *not enrolled.*		12,539	1 5	12,608	0 9
12,403	0 3	12,471	1 7	12,540 *not enrolled.*		12,609	0 11
12,404	1 11	12,472	4 10	12,541	0 10	12,610	1 4
12,405	1 2	12,473	0 7	12,542	1 10	12,611	1 6
12,406	0 7½	12,474	2 10	12,543	1 1½	12,612	0 7
12,407	1 1	12,475	0 7	12,544	0 4	12,613	1 1½
12,408	0 8	12,476	2 0	12,545	0 9	12,614	0 11
12,409	0 3	12,477	0 3	12,546	0 9	12,615	1 5
12,410	2 1	12,478	0 6	12,547	1 6	12,616	0 10
12,411	0 3	12,479	0 4	12,548	0 3	12,617	0 5
12,412	1 3	12,480	2 10	12,549	1 4	12,618	0 4
12,413	0 7	12,481	0 3	12,550	0 4	12,619	1 4
12,414	1 1	12,482	1 10	12,551	3 5	12,620	0 9
12,415	0 4	12,483	1 9	12,552	0 6	12,621	1 4
12,416	0 6	12,484	1 5	12,553	1 9	12,622	2 7
12,417	0 10	12,485	4 7	12,554	1 9	12,623	0 11½
12,418	0 3	12,486	1 3	12,555 *not enrolled.*		12,624	0 5½
12,419	1 2	12,487	0 6	12,556	1 1	12,625	0 9
12,420	1 10	12,488	1 5	12,557	2 5	12,626	1 2
12,421	4 3	12,489	0 8	12,558	0 6	12,627	0 9
12,422	1 4	12,490	0 8	12,559	0 5½	12,628	0 3
12,423	1 1	12,491	1 3	12,560	0 6	12,629	0 6

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
12,630	1 5	12,698*	0 3	12,767	1 7	12,835*	0 3
12,631	*not enrolled.*	12,699	0 9	12,768	3 1	12,836	1 3
12,632	1 1	12,700	*not enrolled.*	12,769	1 3	12,837	3 0
12,633	1 2	12,701	0 10	12,770	1 3	12,838	1 3
12,634	1 8	12,702	0 6	12,771	2 10	12,839	0 9
12,635	0 6	12,703	0 9	12,772	1 10	12,840	2 7
12,636	0 8	12,704	1 8	12,773	1 4	12,841	0 3
12,637	1 0	12,705	0 3	12,774	0 7	12,842	1 5
12,638	1 2	12,706	0 9	12,775	0 9	12,843	1 4
12,639	0 11	12,707	0 6	12,776	0 8	12,844	0 7
12,640	0 8	12,708	1 7	12,777	*not enrolled.*	12,845	8 2
12,641	*not enrolled.*	12,709	0 8	12,778	1 3	12,846	0 4
12,642	2 6	12,710	0 9	12,779	0 9	12,847	1 3
12,643	1 2	12,711	*not enrolled.*	12,780	2 4	12,848	0 10
12,644	1 4	12,712	0 3½	12,781	0 10½	12,849	1 4
12,645	1 9	12,713	0 10	12,782	0 6	12,850	0 3
12,646	3 0	12,714	4 0	12,783	2 8	12,851	0 4
12,647	0 5	12,715	0 11	12,784	0 8	12,852	0 10
12,648	1 7½	12,716	*not enrolled.*	12,785	4 7	12,853	1 11
12,649	0 3	12,717	1 6	12,786	1 1	12,854	1 10
12,650	0 6	12,718	0 4	12,787	1 4	12,855	*not enrolled.*
12,651	0 6	12,719	1 4	12,788	*not enrolled.*	12,856	0 4
12,652	1 5	12,720	0 4	12,789	0 3	12,857	0 7
12,653	2 0	12,721	4 1	12,790	0 3	12,858	1 1
12,654	0 4	12,722	0 8	12,791	0 11	12,859	2 6
12,655	0 10	12,723	2 10	12,792	1 4	12,860	1 1
12,656	0 5	12,724	0 3	12,793	*not enrolled.*	12,861	1 2
12,657	0 10	12,725	5 6	12,794	0 10	12,862	3 8
12,658	1 8	12,726	0 3	12,795	1 7	12,863	0 6
12,659	0 10	12,727	0 3	12,796	0 7	12,864	0 9
12,660	0 6	12,728	0 6½	12,797	1 9	12,865	0 5
12,661	10 3	12,729	0 4	12,798	0 5	12,866	0 4
12,662	0 5	12,730	0 10	12,799	*not enrolled.*	12,867	1 0
12,663	3 5	12,731	1 4	12,800	2 5	12,868	1 11
12,664	3 0	12,732	0 4½	12,801	2 9	12,869	4 8
12,665	0 9	12,733	0 7	12,802	0 6	12,870	2 4
12,666	0 6	12,734	0 9	12,803	2 1	12,871	*not enrolled.*
12,667	0 6	12,735	6 0	12,804	0 5	12,872	0 9
12,668	0 10½	12,736	5 4	12,805	4 0	12,873	1 11
12,669	3 3	12,737	0 5	12,806	0 8	12,874	0 10
12,670	0 9	12,738	0 7	12,807	0 3	12,875	0 10
12,671	3 5	12,739	1 10	12,808	1 6	12,876	1 0
12,672	0 5	12,740	0 3	12,809	0 9	12,877	0 8
12,673	2 0	12,741	1 3	12,810	0 7	12,878	0 9
12,674	*not enrolled.*	12,742	1 5	12,811	*not enrolled.*	12,879	1 10
12,675	1 1	12,743	1 4	12,812	0 3	12,880	3 1
12,676	*not enrolled.*	12,744	0 5	12,813	0 3	12,881	0 3
12,677	1 4	12,745	1 3	12,814	0 11	12,882	3 5
12,678	0 4	12,746	2 5	12,815	2 8	12,883	0 10
12,679	0 10	12,747	0 10	12,816	1 7	12,884	2 7
12,680	1 8	12,748	1 4	12,817	0 4	12,885	1 5
12,681	0 7	12,749	0 6	12,818	0 9	12,886	0 7
12,682	0 3	12,750	0 10	12,819	0 5	12,887	1 6
12,683	3 4	12,751	0 3	12,820	0 3	12,888	0 3
12,684	0 9	12,752	4 0	12,821	2 1	12,889	1 6
12,685	0 3	12,753	*extension of* 6916.	12,822	1 5	12,890	0 9
12,686	0 6	12,754	0 9	12,823	1 3	12,891	0 9
12,687	0 10	12,755	3 3	12,824	1 4	12,892	2 0
12,688	0 10	12,756	1 7	12,825	0 4	12,893	*not enrolled.*
12,689	0 6	12,757	1 8	12,826	0 10	12,894	*not enrolled.*
12,690	1 6	12,758	1 2	12,827	2 9	12,895	0 9
12,691	0 6	12,759	2 10	12,828	1 0	12,896	0 6
12,692	1 4	12,760	1 0	12,829	0 5	12,897	2 3
12,693	4 5	12,761	0 6	12,830	0 6	12,898	0 10
12,694	*not enrolled.*	12,762	1 4	12,831	1 8	12,899	4 3
12,695	0 7	12,763	0 3½	12,832	2 9	12,900	2 4
12,696	0 9	12,764	0 8	12,833	1 8	12,901	1 5
12,697	*not enrolled.*	12,765	0 6	12,834	1 2	12,902	*not enrolled.*
12,698	3 4	12,766	0 10	12,835	2 6	12,903	0 8

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
12,904	12 6	12,973	0 10	13,041	0 9	13,109*	0 3
12,905	0 8	12,974	0 10	13,042	0 3	13,110	0 3
12,906	0 5	12,975	0 4	13,043	1 4	13,110*	0 3
12,907	1 2½	12,976	0 9	13,044	1 8	13,111	2 2
12,908	0 6	12,977	0 5	13,045	1 4	13,112	1 0
12,909	0 8	12,978	3 1	13,046 *not enrolled.*		13,113	0 4
12,910	1 6	12,979	1 11	13,047	1 1	13,114	0 3
12,911 *not enrolled.*		12,980	2 6	13,048	1 11	13,115	0 3
12,912	0 3	12,981	0 7	13,049	0 10	13,116	0 6
12,913	1 5	12,982	0 3	13,050 *not enrolled.*		13,117	0 10
12,914	1 9	12,983	0 5	13,051	0 3	13,118	0 10
12,915	1 0	12,984	0 7	13,052	0 10	13,119	1 5
12,916	0 4	12,985	0 8	13,053	0 10	13,120	1 11
12,917	2 2	12,986	0 5	13,054	0 6	13,121	0 3
12,918	1 10	12,987	0 6	13,055	0 8	13,122	3 3
12,919	1 4	12,988	1 3	13,056	0 8	13,123	0 9
12,920	0 11½	12,989	3 2	13,057	3 5	13,124	0 3
12,921	1 2	12,990	1 0	13,058	0 10	13,125	1 0
12,922	0 10	12,991	2 10	13,059	0 9	13,126	1 3
12,923	0 8	12,992	0 3	13,060	0 6	13,127	0 10
12,924	1 0	12,993	0 3	13,061	4 6	13,128	2 3
12,925	0 9	12,994	4 0	13,062	3 6	13,129	0 5
12,926	1 5	12,995	0 5	13,063	1 11	13,130	1 3
12,927	1 4	12,996	0 8	13,064	0 3	13,131	0 9
12,928 *not enrolled.*		12,997	2 0	13,065	2 9	13,132	0 10
12,929	0 9	12,998	2 11	13,066	4 7	13,133	0 6
12,930 *not enrolled.*		12,999	0 9	13,067	1 1	13,134	0 6
12,931 *not enrolled.*		13,000	3 1	13,068	1 0	13,135	0 10
12,932	0 3	13,001	0 3	13,069	0 3	13,136	0 7
12,933	2 6	13,002	0 6	13,070	1 6	13,137	0 3
12,934	0 7	13,003	3 2	13,071	1 3	13,138	2 10
12,935 *not enrolled.*		13,004	0 9	12,072	1 4	13,139	1 5
12,936	2 4	13,005	0 3	13,073	1 4	13,140	0 6
12,937	2 6	13,006	0 10	13,074	1 2	13,141	0 2
12,938	1 10	13,007	1 8	13,075	0 10	13,142	0 7
12,939	1 5½	13,008	0 10	13.076	0 10	13,143	0 8
12,940 *not enrolled.*		13,009	1 4½	13,077	0 6	13,144	1 5
12,941	2 4	13,009*	0 4	13,078	0 10	13,145	2 9
12,942	0 6	13,010	0 9	13,079	0 6	13,146	1 10
12,943	0 9	13,011	0 6	13,080	0 4	13,147 *not enrolled.*	
12,944	0 6	13,012	5 0	13,081	1 5	13,148	0 8
12,945	2 1	13,013	3 7	13,082	2 6	13,149	0 9
12,946	1 3	13,014	2 9	13,083	0 6	13,150	5 9
12,947	0 3	13,015	1 3	13,084	0 7	13,151	1 2
12,948	5 0	13,016	1 0	13,085	1 9	13,152 *not enrolled.*	
12,949	0 11	13,017	1 0	13,086	2 5	13,153	0 10
12,950	0 7	13,018	0 11	13,087	3 10	13,154	0 8
12,951	1 2	13,019	1 8	13,088	0 6	13,155	0 3
12,952	4 2	13,020	0 4	13,089	1 0	13,156	1 6
12,953	0 10	13,021 *not enrolled.*		13,090	1 0	13,157 *not enrolled.*	
12,954	1 8	13,022	0 5	13,091	0 9	13,158	1 8
12,955	0 10	13,023	0 9	13,092	0 4	13,159	2 1
12,956	0 9	13,024	0 5	13,093	0 3	13,160	0 9
12,957	1 8	13,025	0 8	13,094	1 8	13,161	1 6½
12,958	0 5	13,026	0 10	13,095	1 4	13,162	4 6
12,959	3 6	13,027	1 3	10,096	0 7	13,163	1 3
12,960	1 0	13,028	1 1	13,097	0 5	13,164	1 3
12,961	0 10	13,029	4 8	13,098	0 9	31,165	6 8
12,962	1 7	13,030	1 9	13,099	0 3	13,166	1 4
12,963	2 7	13,031	1 8	13,100	0 6	13,167	0 9
12,964	1 7	13,032	1 3	13,101	1 1	13,168	2 10
12,965	2 1	13,033	0 5	13,102	1 8	13,169	0 9
12,966	1 1	13,034 *not enrolled.*		13,103	0 4	13,170	0 3
12,967	0 9	13,035	7 4	13,104	3 3	13,171	1 8
12,968	1 9	13,036	1 9	13,105	1 4	13,172	0 3
12,969	0 3	13,037	1 10	13,106	0 10	13,173	2 0
12,970 *not enrolled.*		13,038	1 1	13,107	0 9	13,174	1 6
12,971	1 1	13,039	0 5	13,108 *extension of* 7111.		13,175	1 0
12,972	0 6	13,040	0 6	13,109	0 4	13,176	0 10

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
13,177	0 5	13,246	1 6	13,314 *not enrolled.*		13,383	0 5
13,178 *not enrolled.*		13,247	0 9	13,315	0 10	13,384	0 7
13,179	0 10	13,248	0 8	13,316	0 6	13,385	0 3
13,180	0 6	13,249	1 8	13,317	1 9	13,386	0 3
13,181	0 9	13,250	0 7	13,318	3 9	13,387 *not enrolled.*	
13,182	0 6	13,251	0 11	13,319	2 6	13,388	0 3
13,183	0 4	13,252	7 5	13,320	1 4	13,389	0 4
13,184	0 6	13,253	1 0	13,321	0 7	13,390	1 7
13,185	0 9	13,254	0 7	13,322	0 3	13,391	0 3
13,186	1 4	13,255	1 11	13,323	0 8	13,392	0 6
13,187	1 4	13,256	0 10	13,324	4 0	13,393	0 3
13,188	3 1	13,257	0 5	13,325	4 9	13,394	0 10
13,189	1 1	13,258	0 10	13,326	0 3	13,395	1 4
13,190	0 3	13,259	0 9	13,327	0 10	13,396	0 9
13,191	0 5	13,260	0 10	13,328	1 5	13,397	1 5
13,192	1 10	13,261	0 10	13,329	1 11	13,398	0 6½
13,193	0 10	13,262	1 4	13,330	1 1	13,399	0 9
13,194	0 11	13,263	0 7	13,331	0 8	13,400 *not enrolled.*	
13,195	1 4	13,264	3 3	13,332	0 6	13,401	0 4
13,196	0 9	13,265	2 0	13,333	1 8	13,402	7 2
13,197	0 6	13,266	4 5	13,334	0 6	13,403	0 6½
13,198	2 2	13,267	8 10	13,335	0 8	13,404	0 3
13,199	0 3	13,267*	0 4	13,336	0 11	13,405	0 11
13,200	0 7	13,268	0 10	13,337	1 3	13,406	0 6
13,201	0 9	13,269	0 10	13,338	0 4	13,407	0 9
13,202	2 11	13,270	0 3	13,339	0 6	13,408	5 4
13,203	2 2	13,271	1 9	13,340	3 7	13,409	1 1
13,204	2 10	13,272	0 7	13,341	0 5	13,410	1 6
13,205	0 11	13,273	0 9	13,342	0 3	13,411	1 4
13,206	0 9	13,274	1 4	13,343	0 9	13,412	1 1
13,207 *not enrolled.*		13,275	2 9	13,344	0 11	13,413	0 10
13,208	2 10	13,276	0 3	13,345	0 9	13,414	0 11
13,209	0 9	13,277	2 1	13,346	0 10	13,415	0 6
13,210	0 10	13,278	0 10	13,347	0 7	13,416	3 6
13,211	3 8	13,279	0 9	13,348 *not enrolled.*		13,417	0 5
13,212	0 9	13,280	0 6	13,349	1 4	13,418 *not enrolled.*	
13,213	2 1	13,281	0 10	13,350	0 10	13,419	1 5
13,214	1 0	13,282	0 8	13,351	0 8	13,420	1 5
13,215	1 6½	13,283	0 4	13,352	1 5	13,421	0 6
13,216	0 4	13,284	0 5	13,353	2 1	13,422	0 5
13,217	0 10	13,285	4 11	13,354	0 9	13,423	1 11
13,218	0 3	13,286	1 5	13,355	3 3	13,424	0 11
13,219	0 7	13,287	0 4	13,356 *not enrolled.*		13,425	0 9
13,220	0 10	13,288	0 10	13,357	0 3	13,426	0 9
13,221	1 6	13,289	1 10	13,358	0 4	13,427	0 10
13,222	1 1	13,290	0 5	13,359	0 10	13,428	0 6
13,223	0 10	13,291	0 5½	13,360	0 3	13,429	1 3
13,224	0 4	13,292	0 3½	13,361 *not enrolled.*		13,430	0 4½
13,225	1 10	13,293	0 6	13,362	1 1	13,431	0 4
13,226	1 9	13,294	1 7	13,363	2 0	13,432	0 11
13,227	0 6½	13,295	0 8	13,364	0 10	13,433	0 6
13,228	1 2	13,296	0 3	13,365	1 1	13,434	1 0
13,229	0 7	13,297	0 10	13,366	0 6	13,435	2 5
13,230	0 3	13,298	0 5	13,367	0 5	13,436	1 7
13,231	0 4	13,299	0 3½	13,368	1 11	13,437	1 3
13,232	0 4	13,300	3 10	13,369	0 9	13,438 *not enrolled.*	
13,233	0 4	13,301	0 6	13,370	0 6	13,439 *not enrolled.*	
13,234	1 8	13,302	2 1	13,371	0 10	13,440	1 0
13,235	0 10	13,303	0 9	13,372	0 8	13,441	0 3
13,236	0 10	13,304	0 5	13,373	0 5	13,442	0 4
13,237	1 0	13,305	0 11	13,374	0 9	13,443	2 2
13,238	0 11	13,306	0 9	13,375	0 4	13,444	1 1
13,239	0 10	13,307	0 6	13,376	0 7	13,445	1 9
13,240	0 5	13,308	1 4	13,377	0 5½	13,446	1 4
13,241	0 3	13,309	1 3	13,378	0 9	13,447	0 9
13,242	0 5	13,310	0 9	13,379	1 5	13,448	0 6
13,243	1 1	13,311	0 9	13,380	0 8	13,449	0 10
13,244	1 11	13,312	0 6	13,381	0 10	13,450	1 1
13,245	1 10	13,313	5 1[11]	13,382	2 11	13,451	0 5

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
13,452	0 7	13,521	0 3	13,590	0 9	13,659	1 5
13,453	6 7	13,522	0 10	13,591	0 4½	13,660	0 6
13,454	1 6½	13,523	0 9	13,592	1 0	13,661	0 5
13,455	0 11	13,524	0 4	13,593	1 9	13,662 *not enrolled.*	
13,456	0 9	13,525	0 10	13,594	0 7	13,663	0 3
13,457	2 9	13,526	0 9	13,595	1 2	13,664	0 5
13,458	0 7	13,527	1 2½	13,596	4 3	13,665	0 8
13,459	1 9	13,528 *not enrolled.*		13,597	0 3	13,666	0 6
13,460	0 8	13,529 *not enrolled.*		13,598	3 7	13,667	1 10
13,461	1 1	13,530	1 6	13,599	1 1	13,668	0 6
13,462	0 5	13,531	0 4	13,600	1 2	13,669	1 2
13,463	0 3	13,532	1 4½	13,601	1 1	13,670	0 8
13,464	0 10	13,533	0 7	13,602	0 9	13,661 *not enrolled.*	
13,465 *not enrolled.*		13,534	1 7	13,603	1 7	13,672	1 6
13,466	1 8	13,535	0 6	13,604	1 3	13,673	0 3
13,467	1 8	13,536	0 6	13,605	0 5	13,674	0 7
13,468	1 6	13,537	4 10	13,606	0 6	13,675	0 3
13,469	0 7	13,538	1 7	13,607	0 4	13,676	0 3
13,470 *not enrolled.*		13,539 *not enrolled.*		13,608	0 10	13,677	1 0
13,471	0 8	13,540	0 9	13,609	0 10	13,678	0 10
13,472	0 10	13,541	0 8	13,610	1 0	13,678*	0 3
13,473	1 2	13,542	0 4	13,611	0 10	13,679	1 4
13,474	0 6	13,543	0 6	13,612	0 4	13,680	0 4
13,475	3 6	13,544	0 4	13,613	1 9	13,681	0 4
13,476	0 9½	13,545	0 6	13,614	0 10	13,682	0 5
13,477	0 7	13,546	0 9	13,615	0 9	13,683	0 10
13,478	2 1	13,547	1 8	13,616	0 9	13,684	1 4
13,479	8 7	13,548	0 5	13,617	1 3	13,685	1 3
13,480	0 10	13,549	0 9	13,618	1 3	13,686	0 9
13,481	1 0	13,550 *not enrolled.*		13,619	0 6	13,687	8 5
13,482	0 9	13,551	0 3	13,620	0 3	13,688	0 4
13,483	0 6	13,552	2 9	13,621	1 4	13,689	0 9
13,484	0 4	13,553	3 1	13,622	1 4	13,690	1 2
13,485	0 10	13,554	0 10	13,623	0 9	13,691	0 9
13,486	0 4	13,555	0 5	13,624	0 7	13,692	1 5
13,487	0 5	13,556	0 3½	13,625	1 4	13,693	0 10
13,488	0 9	13,557	1 0	13,626	0 5	13,694	1 3
13,489	0 7	13,558	0 3	13,627	1 1	13,695	1 1
13,490	0 10	13,559	4 0	13,628	4 11	13,696	0 5
13,491	1 4	13,560	6 2	13,629	6 2	13,697 *not enrolled.*	
13,492	0 8	13,561	0 10	13,630	0 4	13,698	0 10
13,493	1 4	13,562	0 10	13,631	0 10	13,699	0 8
13,494	0 10	13,563	3 4	13,632	0 10	13,700	1 9
13,495	0 4	13,564	0 10	13,633	2 11	13,701	0 8
13,496	0 3	13,565	0 10	13,634	0 4	13,702	0 6
13,497	2 3	13,566	1 8	13,635	7 1	13,703	1 0
13,498	0 5	13,567	0 4	13,636 *not enrolled.*		13,704	0 9
13,499	0 8	13,568	0 7	13,637	1 8	13,705	6 6
13,500	0 9½	13,569	0 3	13,638	6 4	13,706	1 3
13,501	1 4	13,570	0 4	13,639	4 0	13,707	0 3
13,502	0 6	13,571	0 7	13,640	0 5	13,708	0 7
13,503	1 2	13,572	0 5	13,641	0 9	13,709	1 0
13,504	1 0	13,573	0 6	13,642	2 3	13,710	0 5
13,505	1 1	13,574	0 9	13,643	1 5	13,711	0 7
13,506	0 6	13,575	0 10	13,644 *extension of* 7263.		13,712	2 1
13,507	0 5	13,576	0 9	13,645	1 2	13,713	0 3
13,508	0 10	13,577	3 11	13,646	0 6	13,714	1 0
13,509	1 8	13,578	0 3	13,647	0 3	13,715	1 0
13,510	1 1	13,579	0 10	13,648	0 9	13,716	0 7
13,511	0 10	13,580	0 9	13,649	0 9	13,717	0 3
13,512 *not enrolled.*		13,581	0 8	13,650	2 11	13,718	0 3
13,513	0 3	13,582	0 3	13,651	0 9	13,719	0 7
13,514	0 4	13,583	1 3	13,652	1 6	13,720	0 8
13,515	10 5	13,584	1 3	13,653	3 2	13,721	0 3
13,516 *not enrolled.*		13,585	0 6	13,654 *not enrolled.*		13,722	0 9
13,517	0 5	13,586	2 0	13,655	0 3	13,723	1 1
13,518	0 9	13,587	0 6	13,656	1 0	13,724	0 6
13,519 *not enrolled.*		13,588	0 10	13,657	0 8	13,725	1 4
13,520	0 8	13,589	0 3	13,658	0 10	13,726	1 4

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
13,727	0 9	13,794	1 11	13,863	0 7	13,930	0 6
13,728	5 5	13,795	5 4	13,864	0 10	13,931	2 5
13,729	4 4	13,796	0 7	13,865	0 9	13,932	0 8
13,729*	0 5	13,797	1 3	13,866	1 10	13,933	1 3
13,730 *not enrolled.*		13,798	0 7	13,867	0 6½	13,934	0 10½
13,731	0 5	13,799	0 9	13,868	2 10	13,935	1 2½
13,732	0 3	13,800	0 4	13,869	0 3	13,936	0 8
13,733	0 3	13,801	0 9	13,870	0 10	13,937	0 3
13,734	0 3	13,802	1 3	13,871	0 5	13,938	1 11
13,735	0 9	13,803	0 7	13,872	0 8	13,939	1 3
13,736	10 4	13,804	1 9	13,873	7 5	13,940	0 3
13,737	1 11	13,805	2 9	13,874	0 6	13,941	0 6
13,738	2 4	13,806	0 9	13,875	0 8	13,942	0 7
13,739	0 3	13,807	1 6	13,876	0 6	13,943	1 3
13,740	2 1	13,808	1 2	13,877	0 4	13,944	0 7
13,741	0 4	13,809	1 4	13,878	0 9	13,945	0 9
13,742	1 5	13,810	0 9	13,879	1 11	13,946	0 6
13,743	0 3	13,811	0 9	13,880	4 3	13,947	1 4
13,744	2 9	13,812	0 10	13,881	0 10	13,948	1 8
13,745	2 8	13,813	0 9	13,882	0 6	13,949	1 2
13,746	0 3	13,814	1 6	13,883	0 9	13,950	1 0½
13,747	0 7	13,815	1 10	13,884	0 6	13,950*	0 4
13,748	1 4	13,816	0 8	13,885	0 8	13,951	0 10
13,749	0 9	13,817	2 4	13,886	1 1	13,952	0 9
13,750	2 2	13,818	1 0	13,887	0 6	13,953	0 6
13,751	0 3	13,819	0 7	13,888	16 2	13,954	1 3
13,752	0 3	13,820	2 1	13,889	0 5	13,955	0 6
13,753	2 10	13,821	0 10	13,890	2 11	13,956	0 3
13,754	1 9	13,822	1 11	13,891	2 6	13,957	0 3
13,755	0 8	13,823 *not enrolled.*		13,892	1 4	13,958	0 9
13,756 *not enrolled.*		13,824 *not enrolled.*		13,893	0 8	13,959	0 9
13,757	0 8	13,825	0 8	13,894	0 4	13,960	1 3
13,758	1 7	13,826	0 7	13,895	1 3	13,961	0 3
13,759	0 10	13,827	0 8	13,896	0 4	13,962	0 7½
13,760	3 2	13,828	0 6	13,897	1 5	13,963	0 3
13,761	0 3	13,829	0 6	13,898	0 3	13,964	0 9
13,762	0 3	13,830	0 9	13,898*	0 4	13,965	0 11
13,763	0 3	13,831	2 10	13,899	1 4	13,966	2 4
13,764	0 10	13,832	0 6½	13,900	0 7½	13,967 *not enrolled.*	
13,765	0 5	13,833	0 5	13,901	1 3	13,968	0 9
13,766	1 0	13,834	0 9	13,902	0 6	13,969 *not enrolled.*	
13,767	1 6	13,835	0 6	13,903	2 9	13,970	0 6
13,768 *not enrolled.*		13,836	1 1½	13,904	0 6	13,971	0 7
13,769	0 9	13,837	0 3	13,904*	0 3	13,972	0 6½
13,770	2 10	13,838	0 9	13,905	0 11	13,973	0 3
13,771	0 6	13,839	0 10	13,906	2 8	13,974	1 9
13,772	1 3	13,840	1 2	13,907	0 4	13,975	0 9
13,773	0 4	13,841	0 4	13,908	1 6	13,976	0 10
13,773*	0 3	13,842	0 5	13,909	0 4	13,977	1 4
13,774	1 9	13,843	6 5	13,910	0 8½	13,978	0 8
13,775	0 5	13,844	0 10	13,911	0 4	13,979	0 4
13,776	0 5	13,845	0 6	13,912	0 5	13,980	0 11
13,777	0 6	13,846	1 4	13,913	2 7	13,981	0 8
13,778	1 0	13,847 *not enrolled.*		13,914	0 3	13,982	0 7
13,779	3 0	13,848	1 0	13,915	0 10	13,983	0 10
13,780	0 10½	13,849	2 6	13,916	1 7	13,984	0 7
13,781	0 9	13,850	0 4	13,917	1 10	13,985	1 1
13,782	5 2	13,851	1 10	13,918	0 11	13,986	0 6
13,783	1 9	13,852	0 11	13,919	0 5	13,987	0 3
13,784	1 4	13,853	3 1	13,920	1 6	13,988	2 0½
13,785	1 5	13,854	0 9	13,921	1 1	13,989	0 10
13,786	0 9	13,855	0 11	13,922	1 1	13,990	0 10
13,787	0 3	13,856	0 10	13,923	0 3	13,991	0 5½
13,788	0 3	13,857	1 5	13,924	0 5½	13,992	0 9
13,789	1 0	13,858	4 8	13,925	7 0	13,993	0 6
13,790	0 9	13,859	0 7	13,926 *not enrolled.*		13,994	0 7½
13,791	0 4	13,860	0 3	13,927	0 5	13,995	1 3
13,792	2 10	13,861	0 9	13,928	0 8	13,996	0 4
13,793	0 6	13,862	1 0	13,929 *not enrolled.*		13,997	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. d.		s. d.		s. d.		s. d.
13,998	0 6	14,067	1 6	14,136	0 3	14,205 *not enrolled.*	
13,999	0 10	14,068	0 10	14,137	1 1	14,206	3 0
14,000 *not enrolled.*		14,069	0 5	14,138	0 9	14,207	0 3
14,001	0 11	14,070	1 3	14,139	0 10	14,208	0 3
14,002	0 11	14,071	0 8	14,140	2 8	14,209	0 3
14,003	1 1	14,072	0 3	14,141	0 6	14,210	1 1
14,004	0 10	14,073	0 3	14,142	0 9	14,211	1 11
14,005 *not enrolled.*		14,074	1 4	14,143 *not enrolled.*		14,212	0 9
14,006	0 9	14,075	1 0	14,144 *not enrolled.*		14,213	0 6
14,007	0 10	14,076	0 9	14,145	0 7	14,214 *extension of* 7629.	
14,008	0 7	14,077	0 7	14,146	2 3	14,215	0 6
14,009	0 4	14,078	0 3	14,147	0 3	14,216	0 6
14,010	0 9	14,079 *not enrolled.*		14,148	0 5	14,217 *not enrolled.*	
14,011	0 9	14,080	0 4	14,149	0 10	14,218	0 6
14,012	2 0	14,081	0 9	14,150	0 10	14,219	0 2½
14,013	0 4	14,082	0 8	14,151	1 4	14,220	1 0
14,014	0 7	14,083	0 9	14,152	0 8	14,221	0 5
14,015	1 3	14,084	4 9	14,153	0 9	14,222	1 3
14,016 *not enrolled.*		14,085	0 5½	14,154 *not enrolled.*		14,223 *not enrolled.*	
14,017	0 10	14,086 *not enrolled.*		14,155	1 5	14,224	0 3
14,018	1 5	14,087	2 1½	14,156	0 3	14,225	0 9
14,019	0 3	14,088	1 4	14,157 *not enrolled.*		14,226	0 9
14,020	0 10	14,089	2 11	14,158	1 0	14,227	0 6½
14,021	1 7	14,090	1 1	14,159	0 10	14,228	0 10
14,022	1 6	14,091	0 10	14,160	0 7	14,229	0 3
14,023	0 9	14,092	2 8	14,161	2 5	14,230	0 3
14,024	0 3	14,093	0 9	14,162	1 4	14,231 *not enrolled.*	
14,025	0 5	14,094	0 10	14,163	0 7	14,232 *extension of* 7747.	
14,026	1 5	14,095	0 10½	14,164 *not enrolled.*		14,233	1 3
14,027	0 8½	14,096	0 7	14,165	4 6	14,234	2 5
14,028	0 3	14,097	0 6½	14,166	1 6	14,235	0 6
14,029	0 5½	14,098	0 7	14,167	0 4	14,236	0 7
14,030	1 6	14,099	0 3	14,168	0 3	14,237 *not enrolled.*	
14,031	0 8	14,100	0 11	14,169 *not enrolled.*		14,238	3 11
14,032	0 6	14,101	1 4	14,170	1 4	14,239	2 0
14,033	0 3	14,102	0 5	14,171	4 1	14,240	1 3
14,034	0 5	14,103	0 3	14,172	1 4	14,241	0 6
14,035	1 3	14,104	0 3	14,173	1 4	14,242	0 5
14,036	0 9	14,105	2 5	14,174	0 10	14,243	0 6
14,037	1 4	14,106	0 5	14,175	0 3	14,244	0 3
14,038	0 10	14,107	0 5	14,176	2 8	14,245	3 5
14,039 *not enrolled.*		14,108	0 10	14,177	1 4	14,246 *not enrolled.*	
14,040	0 6	14,109	1 7	14,178	0 3	14,247	1 8
14,041	0 6½	14,110	0 6	14,179	0 2½	14,248	1 1
14,042	0 3	14,111	1 4	14,180	1 3	14,249	0 9
14,043	0 7	14,112	0 10	14,181	1 4	14,250	0 3
14,044	0 9	14,113	0 4	14,182	1 4	14,250*	0 3
14,045	2 8½	14,114	0 9	14,183	0 6	14,251	0 10
14,046	0 11	14,115	0 7	14,184	1 3	14,252	0 6
14,047	2 0	14,116	0 7	14,185	0 4	14,253	3 7
14,048	0 8	14,117	1 6	14,186	3 0	14,254	0 6½
14,049	0 5	14,118	0 9	14,187	0 11	14,255	0 3
14,050	1 10	14,119	4 3	14,188	0 10½	14,256	1 3
14,051	0 10	14,120	0 3	14,189	4 7	14,257 *not enrolled.*	
14,052	0 5½	14,121	0 11	14,190	0 11	14,258	0 6
14,053	0 3	14,122	0 11	14,191	1 3	14,259	1 1
14,054	0 9	14,123	0 9	14,192	0 5	14,260	0 4
14,055	0 6	14,124	1 6	14,193	1 5	14,261	1 3
14,056	0 5	14,125	0 5	14,194	1 5	14,262 *not enrolled.*	
14,057	1 3	14,126	0 8	14,195	0 9	14,263	0 7
14,058	0 4½	14,127	1 4	14,196	1 4	14,264	0 10
14,059	1 6	14,128	0 9½	14,197	1 10	14,265	0 9½
14,060	0 11	14,129	1 11	14,198	1 7	14,266	2 3
14,061	0 11	14,130	3 3	14,199	0 3	14,267	0 10
14,062	0 3	14,131	1 1	14,200	2 8	14,268	0 6
14,063 *not enrolled.*		14,132	0 8	14,201	0 10½	14,269	1 7
14,064	0 9	14,133	0 3	14,202	0 5	14,270	4 2
14,065	0 6½	14,134 *not enrolled.*		14,203	4 0	14,271	0 5½
14,066	0 5½	14,135	0 2½	14,204	1 6	14,272	0 3

List of Printed Specifications of Patents—*continued.*

No.	Price.	No.	Price.	No.	Price.	No.	Price.
	s. *d.*		*s.* *d.*		*s.* *d.*		*s.* *d.*
14,273	1 10	14,295	0 3	14,317	1 0	14,339	0 11
14,274	0 5	14,296	0 8½	14,318	1 6	14,340	0 4
14,275	0 3	14,297	0 3	14,319	0 6½	14,341 *not enrolled.*	
14,276	0 3	14,298	0 10	14,320	0 7	14,342 *not enrolled.*	
14,277	1 1	14,299	0 3	14,321	0 6½	14,343	0 6
14,278	1 1	11,300	1 9	14,322	0 5	14,344	0 10
14,279	0 6	14,301	0 9	14,323	0 9	14,345	0 7
14,280	0 6	14,302	0 3½	14,324	0 3	14,346	1 4
14,281	0 7	14,303	0 10	14,325	2 3	14,347	0 10
14,282	1 1	14,304	0 11	14,326	1 3	14,348	0 3
14,283	0 8	14,305	0 10	14,327	0 10	14,349	0 7
14,284	1 2	14,306	0 3	14,328	1 1	14,350 *not enrolled.*	
14,285	0 10	14,307	0 4	14,329	0 7	14,351	0 7½
14,286	0 3	14,308	0 3	14,330	1 2	14,352	0 5
14,287	5 0	14,309	1 1	14,331	2 2	14,353	0 5
14,288	0 9	14,310	0 4	14,332 *not enrolled.*		14,354	0 3
14,289	0 5½	14,311	0 5	14,333	1 2	14,355	1 3
14,290	0 3	14,312	0 7	14,334	0 7	14,356	0 6
14,291	0 7	14,313	2 2	14,335	0 2½	14,357 *extension of* 7774.	
14,292	2 2	14,314	0 3	14,336	0 3	14,358	1 11
14,293	0 6	14,315	0 10	14,337	1 0	14,359 *extension of* 7529.	
14,294	0 3	14,316	0 5	14,338	2 2		

A Free Library and Reading Room, in connection with the Office of the Commissioners of Patents, is open to the Public daily from 10 till 4 o'clock.

In addition to the Printed Specifications, Indexes, and other publications of the Commissioners, the Library includes a Collection of the leading British and Foreign Scientific Journals, and text-books in the various departments of science and art. A printed Catalogue of the Library is on sale.

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This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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Free Patent Museum and Library, South Kensington.

NUMBERS of VISITORS for the Week ending 26th March, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Mar. 21	Monday -	189	622	811—Fine.
„ 22	Tuesday -	330	546	876— „
„ 23	Wednesday	118	71	189—Dull&Cl.
„ 24	Thursday*	154	—	154—Cloudy.
„ 25	Friday -	111	—	111—Fine.
„ 26	Saturday -	233	—	233— „
	Total -	1135	1239	2374

* The Museum closes at 5 o'clock.

Total number of visitors since the period of free daily admission (12th May, 1858) to 26th March, 1859, —80,238.

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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 547. FRIDAY, APRIL 1, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2880. To ROBERT WILSON, senr., and ROBERT WILSON, junr., of Livesy Street, Manchester, in the county of Lancaster, for the invention of "Certain improvements in the preparation of leather in combination with india rubber and other materials, for the manufacturing of hose pipes and other purposes where leather is required to be impervious to water, steam, or frost."

On their petition, recorded in the Office of the Commissioners on the 16th day of December, 1858.

460. To THOMAS EARLE, of Clapham, in the county of Surrey, Contractor, for the invention of "Improved apparatus for conveying signals to railway trains in motion."

462. And to WILLIAM BASFORD, of Burslem, in the county of Stafford, Brick and Tile Manufacturer, for the invention of "Improvements in the method of, and means for, drying bricks and tiles preparatory to their being burnt, and also in the construction of kilns or ovens for burning such bricks, tiles, pipes, pottery, or earthenware, and in the mode of charging or placing these said articles therein to be burnt or fired, and also in certain appliances for regulating the heat therein."

On both their petitions, recorded in the Office of the Commissioners on the 19th day of February, 1859.

516. To GEORGE PEOVER, of Wilmington Square, Clerkenwell, in the county of Middlesex, Mathematical Instrument Maker, for the invention of "An improved optical instrument, being an improvement upon the kaleidoscope."

On his petition, recorded in the Office of the Commissioners on the 25th day of February, 1859.

600. To JAMES KING, of Moss Mill, near Rochdale, in the county of Lancaster, Cotton Spinner and Manufacturer, and ALFRED WILCOCK, of the same place, Mechanic, for the invention of "Improvements in certain parts of machines used in preparing, spinning, and doubling cotton and other fibrous materials."

602. To WILLIAM HALLILAY, of Wakefield, in the county of York, Gentleman, for the invention of "Improvements in apparatus for preventing smoke and economizing fuel."

604. To CHARLES MILLS, of High Street, Camden Town, for the invention of "Improvements in the action of pianofortes."

606. To EDWARD DEANE, of No. 1, Arthur Street, East, London Bridge, in the city of London, Gas Engineer, for the invention of "Improvements in apparatus for the transmission of gas and other fluids."

608. And to BENNETT MITCHELL BELLING, of 55, Queen's Road, Bayswater, Dentist, for the invention of "An improved apparatus for hardening india rubber for the bases of teeth."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of March, 1859.

610. To JOHN ALLIN WILLIAMS, of Baydon, in the county of Wilts, Farmer, for the invention of "Improvements in machinery or apparatus for cultivating land by steam power."

612. To JOHN ROBINSON NICHOLSON, of Redditch, in the county of Worcester, Doctor of Medicine, for the invention of "New or improved machinery to be used in the manufacture of needles, a part or parts of which said machinery may also be used for pointing pins and other like articles."

614. To GEORGE COPE PEARCE, of Cyfarthfa, in the county of Glamorgan, Engineer, for the invention of "An improvement in cornets, trumpets, trombones, and other like wind instruments."

618. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in billiard tables."—A communication from abroad by Abraham Bassford, of New York.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of March, 1859.

620. To JOHN COWDERY MARTIN, of High Street, Barnes, in the county of Surrey, Naval Architect, for the invention of "An improvement in the manufacture of cannon and small fire-arms, and of projectiles to be used with the same."

622. And to RICHARD FREDERICK WOODWARD, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "An improvement or improvements in the manufacture of certain kinds of scale beams and fittings used therewith."

On both their petitions, recorded in the Office of the Commissioners on the 10th day of March, 1859.

624. To JAMES HENRY BURTON, of Enfield Lock, in the county of Middlesex, England, for the invention of "An improvement in breech-loading fire-arms."

630. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved construction of steam engine, applicable also to the raising of water."—A communication from abroad by Samuel Huse, of the United States of America.

On both their petitions, recorded in the Office of the Commissioners on the 11th day of March, 1859.

632. To WILLIAM EDWARD NEWTON, of the Office of Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in endless chain propellers for boats and other vessels."—A communication from abroad by Anson Wolcott, of New York.

638. And to RICHARD ALLISON, of Birmingham, in the county of Warwick, Engineer, for the invention of "Improvements in apparatuses for boring and sinking."

On both their petitions, recorded in the Office of the Commissioners on the 12th day of March, 1859.

640. To RICHARD WALLER, of No. 50, Baker Street, Portman Square, in the county of Middlesex, Gentleman, for the invention of "Improvements in joining leather, flexible and textile materials, for the production of boots and shoes, and articles of the like description, and harness, strapping, bags, sails, tent-covers, portmanteaus, and such other articles, together with machinery and apparatus for that purpose."

642. To ALFRED TYLOR, of Warwick Lane, Newgate Street, for the invention of "Improvements in apparatus for regulating the supply of water to water-closets and other vessels."

644. To DAVID JOY, of Leeds, in the county of York, Engineer, for the invention of "Improvements in hydraulic engines and meters."

646. To EDWIN SMITH, of Dudley Port, in the county of Stafford, Agent, for the invention of "Improvements in treating or preparing furnaces used in the manufacture of iron."

648. And to JOHN SAMUEL DAWES, of Smethwick House, near Birmingham, Gentleman, for the invention of "A new or improved method, or combination of arrangements for the better securing and collecting of night-soil or town manure, and rendering it more valuable for agricultural purposes."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of March, 1859.

650. To CHARLES DESURMONT, of Seclin, France, Gentleman, and CHARLES GOUDEAU, of Alost, Belgium, Mechanical Engineer, for the invention of "Certain improvements in looms for weaving."

652. To CHARLES RITCHIE, of No. 143, the Strand, in the county of Middlesex, Engineer, for the invention of "Improvements in calculating machines."

654. And to BENJAMIN RIDER, of No. 61, Red Cross Street, Boro', in the county of Surrey, Leather Dresser, and Hat Leather Manufacturer, for the invention of "Improvements in hats, caps, and other coverings for the head, and in the apparatus used in the manufacture of such articles."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of March, 1859.

655. To JOHN DIXON and ROBERT CLAYTON, both of Bradford, in the county of York, Engineers, for the invention of "Improvements in rolling iron and steel for manufacturing railway wheels and for other purposes."

657. To WILLIAM ROBERTSON, of Dundee, in the county of Forfar, North Britain, Engineer, and JAMES GUTHRIE ORCHAR, of the same place, Engineer, for the invention of "Improvements in weaving."

659. To JAMES PARKER, of Claremont Cottage, Lilford Road, Camberwell, Surrey, Solicitor's Clerk, for the invention of "Improvements in lever sails, and in submerged feathering-propellers."

661. To FRANCIS MORDAN, of Goswell Road, in the county of Middlesex, Manufacturer, for the invention of "A means of keeping a stopper connected with a bottle, jar, or such like receptacle, when removed from the mouth thereof."

663. To JAMES FULLER, of Reading, in the county of Berks, Turner, for the invention of "Improvements in churns."

665. To JOSEPH MICHEL-DENYS, of Charleroi, in the kingdom of Belgium, Gentleman, and No. 4, South Street, Finsbury, London, for the invention of "Certain improvements in the construction of railway crossings."

669. To GEORGE HAMILTON, of St. Martin's-le-Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, for the invention of "Improvements in tumbler or lever locks, and in keys for such and other locks."

671. And to THOMAS WILLIAM MILLER, of Her Majesty's Dockyard, Portsmouth, for the invention of "Improvements in blocking or securing ships

and other vessels whilst being removed, examined, or repaired."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of March, 1859.

673. To CHARLES GARNETT, of the firm of Peter and Charles Garnett, of Cleckheaton, in the county of York, Machine Makers, for the invention of "Improvements in machinery for ginning cotton, and for cleaning cotton and certain other fibrous materials."

675. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W.C., for the invention of "Improvements in machinery or apparatus for crushing sugar-canes and other materials."—A communication from Saint Jean Thérèse, residing at Lamentin, Martinique, French colony.

677. To THOMAS SKELTON, of Plaistow, in the county of Essex, Draughtsman, for the invention of "Improvements in steering apparatus."

679. To PH. LAROCHETTE ainé, of Paris, in the empire of France, for the invention of "Improvements in machinery for brewing."

681. And to ARTHUR WARNER, of No. 31, Threadneedle Street, in the city of London, and WILLIAM HENRY TOOTH, of Sumner Street, Southwark, in the county of Southwark, for the invention of "Improvements in the manufacture of iron."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of March, 1859.

683. To WILLIAM COOK, of the town and county of the town of Kingston-upon-Hull, Coppersmith, for the invention of "A smoke consumer."

685. To Sir WILLIAM GEORGE ARMSTRONG, Knight, of Newcastle-upon-Tyne, in the county of Northumberland, Civil Engineer, for the invention of "Improvements in the means of igniting explosive projectiles."

687. To JOHN MOLESWORTH, of Rochdale, in the county of Lancaster, Gentleman, for the invention of "An improvement in telegraphic communication."—A communication from abroad by Frederick Newton Gisborne, and Francis O. J. Smith, of Boston, in the United States of America.

689. To JOHN HINKS and GEORGE WELLS, of Birmingham, in the county of Warwick, Manufacturers and Co-partners, for the invention of "A new or improved penholder."

691. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement in the manufacture of cast steel."

693. And to CHARLES LAMBERT, of Sunk Island, in the county of York, Farmer, for the invention of "Improvements in corn and seed drills."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of March, 1859.

695. To THOMAS ALLEN, of Waingate, Sheffield, in the county of York, Clothier, for the invention of "Improvements in petticoats."

697. To EDMUND LEOPOLD BENZON, of Sheffield, in the county of York, Steel Manufacturer, for the invention of "An improvement in the casting of steel."—A communication from Ewald Riepe, residing at Pau, France.

699. To HENRY WHITAKER, of Newman Street, in the county of Middlesex, for the invention of "A new musical instrument, to be called 'The Cherubine Minor.'"

701. To WILLIAM HAIGH, of Reddish, in the county of Lancaster, Paper Maker, for the invention of "An improved manufacture of paper, to be employed for the purposes of packing and other similar uses."

703. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement or improvements in the manufacture of cast steel."

705. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in propelling vessels."—A communication from abroad by Theodore W. Phinney, of Newport, Rhode Island.

On their several petitions, recorded in the Office of the Commissioners on the 19th day of March, 1859.

707. To WILLIAM HAGGETT, of Sherborne, in the county of Dorset, Architect and Surveyor, for the invention of "An improved method of treating metals and other materials to increase their strength."

709. To WILLIAM HUDSON, of Burnley, in the county of Lancaster, Machinist, and CHRISTOPHER CATLOW, of the same place, Overlooker, for the invention of "Certain improvements in looms for weaving."

711. To GEORGE FERGUSON, of the Strand, in the county of Middlesex, Naturalist, for the invention of "The combination and application of certain materials for the destruction of insects and vermin."

713. To SIGISMOND LEONI, of Saint Paul Street, in the county of Middlesex, Manufacturer, for the invention of "Improvements in the manufacture of useful and ornamental articles, surfaces, and works, parts of articles and parts of machinery or apparatus, from talc and other silicates of magnesia, and from the same combined with other substances."

715. To GEORGE GREGG, of Sheffield, in the county of York, Currier, for the invention of "Improvements in currying or manufacturing leather."

771. And to WILLIAM RHODES, of Wade Street, Thornton Road, Bradford, in the county of York, Whitesmith, for the invention of "Certain improvements in fire-proof safes."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of March, 1859.

719. To JOHN DAVIS, of No. 18, Frith Street, Soho, in the county of Middlesex, Professor of Music, for the invention "Improvements in musical instruments."

721. To WILLIAM ARMAND GILBEE, of No. 4 South Street, Finsbury, London, Patent Agent, for the invention of "An improved apparatus for stretching and polishing silk thread."—A communication from abroad, by Messrs. Lyonnet and Prenat, of St. Etienne, France.

723. To Frederick Ashford, of Commercial Road East, London, in the county of Middlesex, for the invention of "Improved means of fastening and securing treasure or bullion cases."

725. To Edward Maynard, of the city of Washington, in the district of Columbia, and United States of America, for the invention of "Improving breech-loading fire-arms."

729. To Sir Peter Fairbairn, of Leeds, in the county of York, Knight, and Robert Newton, of Leeds aforesaid, Commercial Traveller, for the invention of "Straightening and separating the fibres of silk waste, and laying them in parallel lengths preparatory to combing or dressing."

731. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in fire-arms and ordnance, and in projectiles and apparatus to be employed therewith."—A communication from Charles Rochaz, residing at Paris.

733. And to Charles A. Watkins, of the firm of Hamilton and Co., Brush Manufacturers, of Greek Street, Soho Square, for the invention of "Improvements in the manufacture of brushes."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of March, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given, that the petition of

780. William Mossman, of No. 50, Cumming Street, Pentonville, in the parish of Clerkenwell, in the county of Middlesex, Manufacturing Stationer, praying for Letters Patent for the invention of "Improvements in machinery applied to embossing or cutting presses, for the better and more expeditious manner of manufacturing ornamental cut out and embossed work in paper, leather, parchment, cloth, foil, and other materials," was deposited and recorded in the Office of the Commissioners on the 29th day of March, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

1*st April,* 1859.

2194. William Brierley the elder, of Cleckheaton, in the county of York, Machine Maker, for an invention of "Improvements in looms for weaving carpets and other fabrics."—Dated 2nd October, 1858.

2198. John Chappell Holman, of London Street, Fitzroy Square, in the county of Middlesex, and Edward Walter Holman, of Grafton Street, Fitzroy Square, in the same county, Piano-forte Manufacturers, for an invention of "An improved piano-forte action."—Dated 2nd October, 1858.

2206. James Mills, of Manchester, in the county of Lancaster, Machinist, for an invention of "Certain improvements in machinery or apparatus for roving, slubbing, or spinning cotton and other fibrous materials."—Dated 5th October, 1858.

2207. Anthony Bessemer, of Upper Holloway, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of iron and steel, and in apparatuses to be employed therein."—Dated 5th October, 1858.

2209. William Menelaus, of Dowlais Iron Works, in the county of Glamorgan, Manager, for an invention of "Improvements in machinery for straightening rails and wrought iron bars."—Dated 5th October, 1858.

2211. John Harcourt Brown, of the Abbey Mills, Romsey, in the county of Hants, for an invention of "Improvements in the manufacture of projectiles."—Dated 5th October, 1858.

2213. John Harcourt Brown, of the Abbey Mills, Romsey, in the county of Hants, for an invention of "Improvements in the manufacture of cartridges."—Dated 5th October, 1858.

2219. George Collier, of Halifax, in the county of York, for an invention of "Improvements in winding machines."—Dated 6th October, 1858.

2223. William Malam, of Clapham Road, in the county of Surrey, Gas Engineer, for an invention of "Improvements in apparatuses for the manufacture of gas."—Dated 6th October, 1858.

2225. Charles Baylis, of the Poultry, in the city of London, Solicitor, for an invention of "An improved mode of constructing and arranging underground chambers in populous cities or towns for the reception of gas and water pipes and telegraph wires."—Dated 6th October, 1858.

2230. David Naylor, of Stockport, in the county of Chester, Carpet Manufacturer, for an invention of "Improvements in looms for weaving carpets and other fabrics, and in the methods of manufacturing the same."—Dated 7th October, 1858.

2248. Antoine Ephrem Galliard, No. 2, Seymour Place, St. James' Churchyard, Clerkenwell, Middlesex, for an invention of "Making self-supplying portable fountains to play water or water perfumed."—Dated 9th October, 1858.

2251. Lewis Hope, of Bishopsgate Churchyard, in the city of London, Merchant, for an invention of "Improvements in electric telegraph cables."—Dated 9th October, 1858.

2292. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in tanning hides, and in apparatus employed therein."—A communication from Antoine Louis Adolphe Favier, residing abroad. — Dated 14th October, 1858.

2296. Thomas Archer, junior, of Dunston, near Gateshead, for an invention of "Improvements in apparatus for preventing explosions of steam boilers."—Dated 14th October, 1858.

2303. Thomas Moore, Brewer, of the firm of Tennant Brothers, Exchange Brewery, Sheffield, in the county of York, for an invention of "Im-

provements in refrigerators."—Dated 15th October, 1858.

2307. George Fergusson Wilson, of Belmont, Vauxhall, in the county of Surrey, for an invention of "Improvements in preparing compounds containing sulphur for preventing and destroying blight, mildew, and insects."—Dated 15th October, 1858.

2364. Robert Kennedy and James Armstrong, both of Lisburn, in the kingdom of Ireland, for an invention of "An improved kiln for drying grain."—Dated 22nd October, 1858.

2372. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in pumps."—Dated 23rd October, 1858.

2376. Joseph James Welch and John Stewart Margetson, both of Cheapside, in the city of London, for an invention of "Improvements in the manufacture of scarfs for gentlemen's wear."—Dated 25th October, 1858.

2383. Stephen Rossin Parkhurst, of the city and state of New York, United States of America, for an invention of "Improvements in cotton gins."—Dated 25th October, 1858.

2406. Abel Heywood, of the city of Manchester, Paper Maker and Stainer, for an invention of "Improvements in machinery or apparatus for suspending paper and woven fabrics to be dried."—Dated 28th October, 1858.

2409. William Munro, of 32, Bartholomew Close, in the city of London, Manufacturing Chemist, for an invention of "A new manufacture of capsules and other metallic articles."—Dated 28th October, 1858.

2436. William Palmer, of the city and state of New York, United States of America, for an invention of "Improvements in fire arms."—Dated 1st November, 1858.

2439. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved combination for the production of voltaic electricity, and its application as a curative agent to certain parts of the human body."—A communication from a Foreigner residing abroad.—Dated 2nd November, 1858.

2879. William Morgan, of Witton Park Ironworks, near Darlington, in the county of Durham, for an invention of "Improvements in the manufacture of iron."—Dated 15th December, 1858.

2987. Thomas Bell, of Plaistow, in the county of Essex, for an invention of "Improvements in purifying gas."—Dated 30th December, 1858.

68. Edward Cobbold, of Hendon, in the county of Middlesex, Gentleman, for an invention of "Improvements in instruments for writing and marking, and for the preparation of certain substances for conversion into instruments for writing and marking, and for the application to useful purposes of certain products arising from preparation aforesaid."—Dated 8th January, 1859.

147. William Newman, of Aston, near Birmingham, in the county of Warwick, Brassfounder, for an invention of "New or improved furniture for window and other blinds."—Dated 18th January, 1859.

249. Henry Rawson, of Leicester, for an invention of "Improvements in machinery for preparing wool and other fibrous substances."—Dated 27th January, 1859.

250. James Buckingham, of Walworth Common, in the county of Surrey, Civil Engineer, and George Salt, of Saltaire, near Bradford, in the county of York, Manufacturer, for the invention of "Improvements in the construction and adaptation of drawing and other rollers employed in drawing and compressing fibres, which improved construction of rollers is also applicable in compressing fabrics."—Dated 27th January, 1859.

302. John Buncher, of Birmingham, in the county of Warwick, Brass Founder, for an invention of "Improvements in the manufacture of eyes or fastenings for stair rods."—Dated 2nd February, 1859.

326. Patrick Adie, of the Strand, in the county of Middlesex, Mathematical Instrument Maker, for an invention of "Improvements in apparatus for taking levels and measuring angles."—Dated 4th February, 1859.

352. Doctor Ernst Bagnicki, of New York, in the county and state of New York, in the United States of America, for an invention of "An improved syringing apparatus for curing leucorrhea and similar sexual diseases."—Dated 8th February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 30th March, 1859, inclusive.*)

28th March.

786. John Gray, of Peckham, in the county of Surrey, Engineer, for an invention of "Improvements in steam-boilers, furnaces, and fire bars."—Dated 1st April, 1856.

923. William Tytherleigh, of Birmingham, in the county of Warwick, Accountant Clerk, for an invention of "A new or improved method of coating or covering iron or articles of iron, with copper or alloys of copper."—Dated 18th April, 1856.

29th March.

770. Benjamin Looker the younger, of Kingston-upon-Thames, in the county of Surrey, Brick and Tile Manufacturer and Potter, for an invention of "An improved mark or indicator to be let or fixed into the ground in burial grounds and other places."—Dated 31st March, 1856.

902. William Fuller, of Jermyn Street, in the county of Middlesex, Ice Pail Manufacturer, for an invention of "Improvements in ice pails."—Dated 15th April, 1856.

908. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in fire-arms and powder flasks."—A communication from Colonel Sam. Colt.—Dated 16th April, 1856.

30th March.

1024. Joseph Rigby, of Ashton-under-Lyne, in the county of Lancaster, Mechanic, for an invention of "Improvements in machinery for grinding or sharpening the card cylinders and rollers of carding engines."—Dated 30th April, 1856.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

424. FRANÇOIS RADI, of 113, Grande Rue Vaugirard, for "A tent with double roofs, one above the other."—Dated 28th January, 1859.

425. DELESTRE and VILMORIN, the former of 5, Quai Conti, the latter of 30, Quai de la Mégisserie, Paris, for "Caoutchouc tops of pencils."—Dated 28th January, 1859.

426. ANTOINE PAUL COLOMER, of 102, Rue St. Louis, Paris, for "A system of advertisements."—Dated 28th January, 1859.

427. ANGE ELÉONORE JEAN DENIS TUMELAIS, of 20, Rue Notre Dame des Victoires, Paris, a Certificate of Addition to his Patent of 16th October, 1857, for "An apparatus worked by air or water, being a substitute for all kinds of motive power." —Dated 28th January, 1859.

428. PEAN and PIGEON, of 61, Passage Choiseuil, Paris, for "A cake called 'gold bread à la romaine.'" —Dated 28th January, 1859.

429. PIERRE DENIS NOLET, of 35, Rue de la Lune, Paris, for "A travelling copying press."—Dated 28th January, 1859.

430. CHARLES FRÉDÉRIC RAPP, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in sewing machines." — Dated 28th January, 1859.

431. RIVOIRE and DELEGUE, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A combined bed and spring mattress, and single spring mattress, with varying surfaces and peculiar arrangements."—Dated 28th January, 1859.

432. FÉLIX DEHAYNIN, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An improved machine for conglomerating coal dust." —Dated 28th January, 1859.— (Belgian Patent, expiring 28th January, 1879.)

433. FRÉDÉRIC FREPPEL, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 27th February, 1857, for "Sizing fabrics in weaving."— Dated 28th January, 1859.

434. THÉODORE AUGUSTE MARIE SORTAIRE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th December, 1858, for "A self-acting system of conveying telegraphic messages." — Dated 28th January, 1859.

435. AUBIAS CHARLES ISIDORE HENRY, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A chocolate machine."—Dated 28th January, 1859.

436. JEAN JACQUES TAXILE DE LA FENESTRE, of 144, Avenue des Champs Elysées, Paris, for "A wet process for extracting carbon from peat and other fuel."—Dated 29th January, 1859.

437. ANDRÈS, BURDEL, and CHICARD, represented by Ricordeau,. of 23, Boulevart de Strasbourg, Paris, for "A composition for reviving cloth and lace work of scarlet wool."—Dated 29th January, 1859.

438. NAPOLÉON XAVIER GIVAUDAN, domiciled Rue Labate, Montmartre, for "An essence applicable to various purposes."—Dated 26th January, 1859.

439. JEAN LOUIS FRANÇOIS FEMINIER, of 65, Rue Neuve des Petits Champs, Paris, for "A kind of pins."—Dated 29th January, 1859.

440. ALEXANDRE HENRI DUFRESNE, of 6, Rue de Seine, Paris, for "A new mode of applying machines used in engine-turning, copying, &c."— Dated 29th January, 1859.

441. HENRI LOUIS MARIE, of 10, Rue St. Ferdinand aux Ternes, a Certificate of Addition to his Patent of 12th October, 1858, for "New arrangements of economical pavilions and houses." —Dated 29th January, 1859.

442. BREMOND and THUILLIEZ, the former of 70, the latter of 65, Rue Neuve des Mathurins, Paris, a Certificate of Addition to his Patent of 4th January, 1859, for "Improvements in various parts of spinning apparatus."—Dated 29th January, 1859.

443. ROSE DIDIÈRE EMILIES DÉCHANET, of 54, Rue de Paris, Clichy la Garenne, for "An embroidery stitch."—Dated 29th January, 1859.

444. BEAUCOURT and VOEGELI, represented by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, for "A system of levers with a fulcrum for smoothening the action of keyboards of organs."—Dated 31st January, 1859.

445. DAVID SAMUEL PAGÈS, of Roquecourbe, département du Tarn, for "Manufacture of woollen double socks without wrong sides."—Dated 1st February, 1859.

446. JOSEPH BÉRANGER, of 3, Cours Bourbon, Lyon, département du Rhône, for "A water counter and regulator."— Dated 1st February, 1859.

* For the French Patent Law see No. 228 of this Journal.

447. Fraissinet and Beau, of Alais, département du Gard, for "Chambered tissue of iron ribbons." —Dated 1st February, 1859.

448. Louis Parent, of St. Marcel-les-Châlon, département de Saône et Loire, for "Manure composed of waste of animal matter and fecal matter." —Dated 2nd February, 1859.

449. Léonard Quinet, of Anzin, départment du Nord, for "Applying gun barrels to handles of swords."—Dated 2nd February, 1859.

450. Antoine Barbary, of Guéret, département du la Creuse, for "An apparatus for preventing boiling milk from flowing over."— Dated 2nd February, 1859.

451. François Payre, of 7, Rue du Haut-Vernay, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 6th August, 1853, for "A system of ribbon-looms." — Dated 2nd February, 1859.

452. Charles Chrétien, of 50, Rue d'Armentiers, Lille, département du Nord, a Certificate of Addition to his Patent of 15th November, 1858, for "An economical washing machine with a reciprocating motion."—Dated 3rd February, 1859.

453. Lesis-Détève, of Beaumetz-lez-Doges, département du Pas de Calais, for "An economical motor."—Dated 26th January, 1859.

454. Carpentier, of Boulogne, département du Pas de Calais, for "An apparatus for facilitating the practical teaching of the legal system of weights and measures for the use of schools and private persons."—Dated 28th January, 1859.

455. Adolphe Rousseau, of 25, Rue des Licés, Avignon, département de la Vaucluse, for "A regulating hinge hook for doors and windows."— Dated 31st January, 1859.

456. Mrs. Portes-Mesnard, of Montmoreau, département de la Charente, for "A process for promoting the growth of hair."—Dated 31st January, 1859.

457. Jacques Désiré Fenaut, of La Neuvillette, département de la Marne, for "A moveable and continuous circular templet."—Dated 1st February, 1859.

458. Jean Chemineau, of 60, Bordeaux, département de la Gironde, for "Railway switches."— Dated 2nd February, 1859.

459. Lizes and Cordurié, of Carmans, département du Tarn, for "An improved aerial railway." —Dated 2nd February, 1859.

460. Danion and Co., of 42, Rue de Paris, Lambizellee, département du Finistère, for "A system of weighing by means of so-called 'oscillating steelyards.' "—Dated 2nd February, 1859.

461. Eugène Charles Maldant, of 25, Quai des Chartrons, Bordeaux, département de la Gironde, for "Constructing recipients used in preparing and preserving timber by means of common or compressed wood."—Dated 3rd February, 1859.

462. Emmanuel Escoubé, of 24, Rue des Arts, Toulouse, département de la Haute Garonne, for "An apparatus for tightening gloves."—Dated 1st February, 1859.

463. François Emmanuel Verguin, of 36, Rue de l'Arbre-sec, Lyon, département du Rhône, a Certificate of Addition to his Patent of 2nd February, 1858, for "Manufacture of colouring substances."—Dated 2nd February, 1859.

464. Jean Marie Luizet, of 12, Route du Bourbonnais, Lyon, département du Rhône, for "A system of pumps."—Dated 2nd February, 1859.

465. Henry Duchesne, of 30, Rue Condé, Dijon, département de la Côte d'Or, for "Shirts and collars without buttons."—Dated 3rd February, 1859.

466. Jules François Descours, of 38, Cours Perrache, Lyon, département du Rhône, for "A machine for moulding bricks, drain-pipes, and all soft or pulverulent substances."— Dated 3rd February, 1859.

467. Yver Auguste Behm, of Basse-Yutz, département de la Moselle, for "A process for strengthening and hardening tanned leather."— Dated 3rd February, 1859.

468. Pierre Minot, of 12, Rue des Remparts d'Ainay, Lyon, département du Rhône, for "A safety clock-valve with unequal lever-arms for steam, gas, and other apparatus." — Dated 3rd February, 1859.

469. Auguste Revérand, of 15, Rue Centrale, Lyon, département du Rhône, for "A bolting-hutch for painters and builders." — Dated 4th February, 1859.

470. Jean Emmanuel Verpillat, of 26, Rue Tronchet, Lyon, département du Rhône, a Certificate of Addition to his Patent of 28th April, 1858, for "Bobbins for doubling thread."—Dated 4th February, 1859.

471. Adrien Cabarrus, of Grignols, arrondisement de Bazas, département de la Gironde, a Certificate of Addition to his Patent of 27th July, 1858, for "Railway breaks."—Dated 5th February, 1859.

472. Mathieu Serre, of 1, Place du Marché, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 23rd April, 1858, for "A rocking regulating system for removing the irregularities in holes, &c."—Dated 5th February, 1859.

473. Louis Charles Darcourt, of Albert département de la Somme, for "A kiln for calcining bones for the manufacture of animal charcoal."— —Dated 3rd February, 1859.

474. Jean Vérière, of 28, Rue des Princess, Meudon, département de Seine-et-Oise, for "A system of pumps."—Dated 3rd February, 1859.

475. François Jean Paul Larrose, of Erée, département de l'Ariège, a Certificate of Addition to his Patent of 23rd February, 1858, for "An instrument called 'stadia-sight' with a differential system, &c."—Dated 3rd February, 1859.

476. Augustin Bel, of Castres, département du Tarn, a Certificate of Addition to his Patent of 20th May, 1858, for "Construction of lime-kilns." —Dated 5th Febuary, 1859.

477. Jean Baptiste Thenault, of Triancourt, département de la Meuse, for "A dyeing process." —Dated 5th February, 1859.

478. Jules Mollo, of 10, Rue Ste. Colombe, Bordeaux, département de la Gironde, for "A valve whereby the stroke of rams may be dispensed with."—Dated 8th February, 1859.

479. Neveux and Jamenayre, represented by Brun, of 36, Rue Ste. Sophie, Bordeaux, département de la Gironde, for "A system of unloading vessels and lighters."—Dated 8th February, 1859.

480. Edmond Guer, represented by Ricordeau, of 23, Boulevart de Strabourg, Paris, for "An apparatus for instantaneously putting out burners of lamps with liquid gas."—Dated 29th January, 1859.

481. François Binet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 9th March, 1858, for "A liqueur-case."—Dated 29th January, 1859.

482. Girot Brothers, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in seats for gardens, public walks, and other places."—Dated 29th January, 1859.

483. Macé and Boulanger, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A mechanical system of dressing-boxes."—Dated 29th January, 1859.

484. Christian Sharps, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in fire-arms."—Dated 29th January, 1859.

485. Thomas James Sloan, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of opening folding doors."—Dated 29th January, 1859.

486. Melchior Colson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Arrangements in steam engines, applicable especially to the extraction of coal."—Dated 29th January, 1859.

487. Frantz Arton Schmider, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in locks."—Dated 29th January, 1859.

488. Félix Tussaud, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of oars."—Dated 29th January, 1859.

489. Félix Tussaud, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in machines for beating leather."—Dated 29th January, 1859.

490. Albert Poncelin, of 60, Rue de Paris, Clamart, a Certificate of Addition to his Patent of 27th December, 1858, for "An apparatus for obtaining seltzer water."—Dated 29th January, 1859.

491. Denis Lemesle, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of steel buttons."—Dated 29th January, 1859.

492. Pierre Marius Philippe Bourjeaurd, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A pessary."—Dated 29th January, 1859.

493. Denis Lemesle, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 1st February, 1854, for "Improvements in the manufacture of buttons."—Dated 29th January, 1859.

494. Louis Henri Poully, of 5, Rue de l'Echelle, Paris, a Certificate of Addition to his Patent of 18th January, 1859, for "A ladies' page."—Dated 29th January, 1859.

495. François Noël Clairin, of 11, Carrefour de l'Observatoire, Paris, for "Improvements in furniture for mantlepieces of chimneys."—Dated 31st January, 1859.

496. Emile Pierre Rousseau, of 9, Rue de l'Ecole de Médecine, Paris, for "A mode of purifying the juice of plants, being applicable especially to refining sugar."—Dated 31st January, 1859.

497. Leloup and Beaumont, the former of 8, Rue Garancière, the latter of 64, Rue de Rivoli, Paris, for "Manufacture of animal oil."—Dated 31st January, 1859.

498. Edouard Gorges, of 11 bis, Avenue de la Porte-Maillot, Paris, for "Preserving alimentary substances."—Dated 31st January, 1859.

499. Jean Puyo, of 64, Grande Rue à la Chapelle, St. Denis, a Certificate of Addition to his Patent of 14th January, 1856, for "Applying the metrical system to glass vessels."—Dated 31st January, 1859.

500. Charles Amédée Lange, of 70, Rue de Ménilmontant, Paris, for "An apparatus for obtaining gaseous liquids."—Dated 31st January, 1859.

501. Charles Marie Mathiau, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 12th February, 1858, for "A system of packing flowers, &c."—Dated 31st January, 1859.

502. Auguste Louis Risbourg, of 6, Rue St. Laurent, Belleville, for "Means for dry-rubbing floors of apartments."—Dated 31st January, 1859.

503. Constantin Peruez, of 84, Rue de Dunkerque, Paris, for "A composition for dyeing."—Dated 31st January, 1859.

504. Louis François Allier, represented by Gardissal, of 29, Boulevart de Strasbourg, Paris, for "Improvements in gold chains, bracelets, necklaces, &c."—Dated 31st January, 1859.

505. Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Purifying natural phosphate of lime."—Dated 31st January, 1859.

506. Louis Emile Tabarié, of 82, Rue de Vaugirard, Paris, for "Improvements in electrical batteries."—Dated 1st February, 1859.

507. Alexandre Portebois, of 29, Avenue Trudaine, Paris, for "An apparatus for regulating the gauze-wire and felt of paper machines."—Dated 1st February, 1859.

508. Eugène Anatole Pérignon, of 2, Rue des Beaux-Arts, Paris, a Certificate of Addition to his Patent of 29th September, 1855, for "Improvements in boilers of steam engines, &c."—Dated 1st February, 1859.

509. Miss CORDONNIER and LEHUGEUR, of 118, Rue de Paris, St. Denis, for "A system of petticoats."—Dated 1st February, 1859.

510. GEORGE SCABORN PARKINSON, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "An improved apparatus for working railway breaks and establishing a communication between guards and drivers of engines."—Dated 1st February, 1859.—(English Patent, expiring 29th July, 1872.)

511. HENRY RAYMOND, of 130, Rue St. Honoré, Paris, a Certificate of Addition to his Patent of 4th December, 1858, for "A washing machine."—Dated 1st February, 1859.

512. JEAN LABENSKI, of 11, Rue Salleneuve, Batignolles, for "An apparatus called 'carburator,' with a steady level, obtained by means of a float clack valve, whereby the lighting power of gas is increased."—Dated 1st February, 1859.

513. ALBY and GAUVAIN, of 86, Rue Miroménil, Paris, for "A process for conglomerating woodshavings."—Dated 1st February, 1859.

514. HENRY KINSMAN SWET, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A plastic substance for moulding various articles."—Dated 1st February, 1859.

515. GIBUS and Son, of 40, Rue Beaubourg, Paris, a Certificate of Addition to their Patent of 12th September, 1855, for "A flexible hat."—Dated 1st February, 1859.

516. JULIEN ISIDORE LEFEBURE, domiciled with Belivenly of 20, Rue de Paradis Poissonnière, Paris, a Certificate of Addition to his Patent of 21st February, 1857, for "A process for retting flax, &c."—Dated 1st February, 1859.

517. JULES CHRISTIAN WALTZ, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 3rd October, 1854, for "Ornamental saddlery."—Dated 1st February, 1859.

518. MARC ANDRÉ BAUDIT, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in buckles for braces, belts, &c."—Dated 2nd February, 1859.

519. JEAN LOUIS GEORGES LEDOUX, of 62, Faubourg St. Denis, Paris, for "An apparatus for washing feathers."—Dated 1st February, 1859.

520. FEICHTWANGER and Co., for "A double portemonnaie."—Dated 2nd February, 1859.

521. LAURENT BREVAL, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in steam engines and apparatus."—Dated 2nd February, 1859.

522. MATHIEU FRANÇOIS CAUMES, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for maintaining ladies' dresses."—Dated 2nd February, 1859.

523. DENIS VICTOR EUGÈNE FERRIER, of 29, Boulevart Montmartre, Paris, a Certificate of Addition to his Patent of 21st August, 1858, for "A spherical clock in which the motive spring is done away with."—Dated 2nd January, 1859.

524. MONTAGUE and MOSES, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in handles of umbrellas, parasols, &c."—Dated 2nd February, 1859.—(English Patent, expiring 10th August, 1872.)

525. MULLER and Co., of 33, Rue de Chabrol, Paris, for "Improvements in the manufacture of ceramic articles."—Dated 3rd February, 1859.

526. DE ROUSSEN and RENAULT, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to their Patent of 14th July, 1858, for "Means of communication between localities."—Dated 3rd February, 1859.

527. CROCHARD, LENCAUCHEZ, and POUCHET, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to their Patent of 3rd July, 1858, for "Improvements in the treatment of fecal matter."—Dated 3rd February, 1859.

528. JEAN JACQUES SAUTOU, of 3, Rue de Louvins, Paris, a Certificate of Addition to his Patent of 29th July, 1858, for "Screw towing-boats."—Dated 3rd February, 1859.

529. DROUET and Co., of 5, Place du Marché St. Martin, Paris, for "Plates of belts."—Dated 3rd February, 1859.

530. JOANNIS and BANVILLE, the former of 30, Rue Sainte, the latter of 167, Boulevart de Longchamps, Marseille, département des Bouches du Rhône, for "A system of drying applicable to silk mills."—Dated 3rd February, 1859.

531. EDOUARD EDMOND FREMENTIN, of 30, Rue St. Michael, Tours, département d'Indre-et-Loire, for "A machine for making corks."—Dated 3rd February, 1859.

532. PIERRE MATHIEU, of Blere, département d'Indre-et-Loire, for "A table and desk for teaching by means of moveable type."—Dated 3rd February, 1859.

533. Messrs. GARNERI and BOSSY, of 9, Rue Fortunée, Marseille, département des Bouches du Rhône, for "A machine and paste for making ashlars."—Dated 4th February, 1859.

534. HIPPOLYTE DURAND, of Vaissac, canton de Nègrepelisse, département de Tarn-et-Garonne, a Certificate of Addition to his Patent of 26th April, 1856, for "A machine for grinding wheat."—Dated 5th February, 1859.

535. DUJARDIN, of Lille, département du Nord, for "A printing telegraph."—Dated 10th February, 1859.

536. JEAN DAVID RAPP, of 34, Faubourg de Pierre, Strasbourg, département du Bas Rhin, for "A system of levers."—Dated 31st January, 1859.

537. PAUL EMILE VARÉ, of Beauvais, département de l'Oise, for "Impressions on wood for joiners' work and cabinet work."—Dated 4th February, 1859.

538. NAPOLÉON MOUTTET, of 29, Rue de la Halle, Hâvre, département de la Seine Inférieure, for "Exhilarating perfumes."—Dated 5th February, 1859.

539. FÉLIX RENAUD, of 6, Place Satonay, Lyon, département du Rhône, for "Extracting and triturating dye-wood."—Dated 7th February, 1859.

540. Tabourin, Son, and Co., of 20, Rue Constantine, Lyon, département du Rhône, for "A local or portable motive power obtained by the agency of compressed atmospheric air."—Dated 7th February, 1859.

541. Aron Blum, of 48, Rue Chabot-Charny, Dijon, département de la Côte d'Or, for "Manufacture of white ceruse or carbonate of lead from the ore of natural lead and various kinds of acids, and potash."—Dated 7th February, 1859.

542. Sylvain Morand, of 11, Rue d'Aubecourt, Lille, department du Nord, for "A mode of removing grates for the purpose of cleaning heating apparatus."—Dated 9th February, 1859.

543. Charles Nicolas Bigel, of 20, Rue St. Pierre, Lyon, département du Rhône. for "A pad with a moveable reservoir for distributing colour by a mechanical means."—Dated 9th February, 1859.

544. Fraehon-Dugas, Crollard, and Co., of Voiron, département de l'Isère for "A drying apparatus for the manufacture of paper."—Dated 9th February, 1859.

545. Jean Eugène Biard, of 3, Rue Porte Basse, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 10th July, 1856, for "Traps for catching small birds, &c."—Dated 9th February, 1859.

546. Constant Watiez-Lenglet, of Pas, département du Pas de Calais, for "A motive power applicable to all kinds of machines."—Dated 7th February, 1859.

547. Henri Rey, represented by Lucien, of 41, Rue du Renard, Marseille, département des Bouches du Rhône, for "A process for extracting hydrogen gas from water, and for carbonizing the same."—Dated 8th February, 1859.

548. Martin Brothers, of 25, Grand Chemin d'Aix, Marseille, département des Bouches du Rhône, a Certificate of Addition to their Patent of 31st July, 1858, for "A system of flat tiles."—Dated 8th February, 1859.

549. Jean Louis Honoré Gentilhomme, of 58, Rue des Petits-Pères, Marseille, département des Bouches du Rhône, for "Hydraulic tiles."—Dated 9th February, 1859.

550. Bellegueulle and Raiche, of Liancourt, département de l'Oise, for "Monorphic foot coverings."—Dated 9th February, 1859.

551. Premier, senr. and junr., of Romans, département de la Drôme, a Certificate of Addition to their Patent of 4th December, 1858, for "A mechanical process for making preserved fruit."—Dated 10th February, 1859.

552. Jean André Chiron, of Puyant, département du Gard, for "An apparatus for reducing motive power."—Dated 11th February, 1859.

553. Ambroise Pellegrin, of Draguignan, département du Var, a Certificate of Addition to his Patent of 29th May, 1858, for "A system of metallic reeds for weaving, &c."—Dated 11th February, 1859.

554. Jean Bernard, of La Rochelle, département de la Charente Inférieure, for "A modern economical lamp combined with a teapot."—Dated 11th February, 1859.

555. Pierre Arsène Desseaux, of Honfleur, département du Calvados, a Certificate of Addition to his Patent of 29th November, 1855, for "A machine for the manufacture of oakum for vessels."—Dated 11th February, 1859.

556. Romain Vildeneuve, Rue d'Elbeuf, Rouen, département de la Seine Inférieure, for "Applying winding machines to common mules."—Dated 8th February, 1859.

557. Charles Augustin Dubin, of Clermont, département de l'Oise, for "A sapping machine."—Dated 10th February, 1859.

558. Jean Michel Bouchou, of Haute Rivoire, département du Rhône, for "A sideral dial or instrument for ascertaining the true time of stars."—Dated 10th February, 1859.

559. Jean Baptiste Aimé Boulenger, of Auneuil, département de l'Oise, a Certificate of Addition to his Patent of 11th February, 1858, for "Inlaid mosaic flagstones of baked clay."—Dated 10th February, 1859.

560. Philippe Bigard, of 1, Impasse Savoie, Lyon, département du Rhône, a Certificate of Addition to his Patent of 10th August, 1858, for "A submarine life apparatus, &c."—Dated 10th February, 1859.

561. Prosper Colomb, of Origny Ste. Benoite, département de l'Aisne, for "An apparatus for manufacturing figured tissues."—Datad 12th February, 1859.

562. Aléxis Frédéric Herbillon, represented by Clerdent, of 2, Rue d'Amboise, Paris, a Certificate of Addition to his Patent of 13th January, 1858, for "Improvements in the manufacture of dolls by using cork."—Dated 3rd February, 1859.

563. Hélis and Saintgeot, of 234, Rue St. Martin, Paris, for "A system for preventing trains from running off the rails."—Dated 3rd February, 1859.

564. Adolphe Henri Lepoint, of 45, Rue de Grenelle, St. Germain, Paris, for "Horses' collars of flat leather."—Dated 3rd February, 1859.

565. Louis Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 4th January, 1859, for "Purifying natural phosphate of lime."—Dated 3rd February, 1859.

566. Louis Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 31st January, 1859, for "Purifying natural phosphate of lime."—Dated 3rd February, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 8th March, 1859, and each bearing that date.

No. 23,144. ABRAHAM ANDREWS, of Bernville, Pa., for an "Improved water-wheel."

"What I claim as my invention, and desire to secure by Letters Patent, is, the curved concave buckets, in combination with the spiral chamber beneath, substantially as described."

No. 23,145. I. B. ATWATER, of Berlin, Wis., for an "Improvement in car-coupler."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the falling gate C, provided with projection *n*, loosely hinged door *a* turned over at its top, and provided with inclined projection *o*, adjustable piece *i*, pin E, lever D, and catch *m*, the several parts being combined and operated substantially in the manner and for the purpose herein specified."

No. 23,146. STEUBEN T. BACON, of Boston, Mass., for a "Register of sheets of paper."

"Having described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is, punching or cutting holes in sheets of paper, for the purpose of securing a more perfect and rapid register in printing and paper-folding machines, substantially as described."

No. 23,147. THEODORE BAILEY, of Friendship, Va., for an "Improvement in dumping wagon."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, a wagon which dumps itself by the approximation of the wheels, as set forth. 2nd, the combination of a spring catch H, with the divided reach, substantially as and for the purposes set forth."

No. 23,148. DAVID BEARD, of Shippenburgh, Pa., for an "Improvement in connecting hubs and axles of vehicles."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the peculiar manner of effecting a combination of the hub, short auxilliary axles, and intermediate stationary axle, whereby internal auxilliary bearings for the short axle, and an external main bearing for the hub, are provided, substantially as and for the purposes set forth. 2nd, making the end of the main axle convex, and the main bearing in the inner end of the hub concave, substantially as and for the purposes set forth."

No. 23,149. WILLIAM BEERS, of Milan, Ohio, for "Improved yokes of ships' rudder posts."

"I am aware that india-rubber has been employed in various ways for producing tight joints, and for protecting parts of machines liable to injury from friction or concussion, therefore I do not claim the use of rubber as a new device; but what I do claim, and desire to secure by Letters Patent of the United States, is, the construction of a divided yoke for rudder posts, in combination with the employment of a guard of india-rubber, or other elastic packing, between the yoke and the post, in order to prevent injury to the rudder post, and also to facilitate the repair of damages produced by the common yoke, substantially as set forth."

No. 23,150. WILLIAM BEERS, of Milan, Ohio, for an "Improved ship's steering apparatus."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent of the United, is, 1 the slotted arm or arms, constructed, arranged, and employed in the manner and for the purposes substantially as set forth. 2, I claim the elastic friction collar or collars S, and the elastic guard or guards P, in combination with the above described steering machine, for preventing concussion and friction, substantially as described. 3, I claim the friction rollers L, in combination with the screw nut G, for preventing the nut from binding upon the screw, substantially as set forth."

No. 23,151. HENRY WILLIAM BEINS, of New York, N.Y., for an "Improvement in treatment of vulcanized rubber."

"What I claim as my invention, and desire to have secured by Letters Patent, is, the process above described of cementing vulcanized india-rubber to and covering it with a new layer of unvulcanized india-rubber composition, in the manner and for the purposes set forth."

No. 23,152. I. B. BLAIR, of Philadelphia, Pa., for an "Attachment to ruling machines."

"What I claim as my invention, is, the application of one or more magnets (electro-magnets) to any ruling machine for ruling paper, in such manner that the magnets shall, either directly or indirectly, be made to control the operations of the pens, through the agency of the paper, in braking, closing, or changing the circuit of electricity."

No. 23,153. J. L. BOOTH, of New York, N.Y., for an "Improvement in grain separators."

"I do not claim, broadly, the invention of endless belts for elevating and carrying grain or other materials; but I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a grain separator composed of a box A, belt B, plates (*d*), hopper C, pulleys (*b*, *b*), and otherwise constructed, substantially as herein shown and described for the purpose specified."

No. 23,154. DANIEL BOWMAN, of Tampico, Tenn., for an "Improvement in fish-traps."

"I claim making the dams to incline towards each other, and up stream, so as to shelve over and make a dark recess to induce the fish to run towards the shute and trap when the water is clear as well as when it is muddy. I also claim the cover of the shute, for the purpose of shading the water and making it dark, so that the fish will be induced to enter the shute and trap."

No. 23,155. ISAIAH C. BURGET, of Davenport Centre, N.Y., for an "Improvement in horse rakes."

"The particular improvements which constitute my said invention, and which I claim as having been originally and first invented by me, are, first, the arrangement of the treddles J, J, hung to the frame, in combination with the rake bar and yoke for raising one end of the rake without disturbing the other, substantially as set forth. Second, the combination of the springs *g* with the arm E, and catch plate I, for holding the rake bar in position, and at the same time to allow it to yield bodily to any obstruction there may be upon the ground, substantially as set forth."

No. 23,156. HENRY CLIFTON, of Buffalo, N.Y., for an "Improvement iu trunks."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a trunk made up of a series of drawers, such as described, the hinged plates for holding and locking said drawers to the frame of the trunk, though the intervention of the lid and its lock, substantially as herein described and represented."

No. 23,157. JOHN H. COOPER, of Philadelphia, Pa., for an "Improvement in sewing machines."

"I claim, and desire to secure by Letters Patent, the combination of the shuttle N, shuttle holder *n*, arm L, crank K, and arm M, or its equivalent, when the said holder *n* is attached to or forms a part of the arm L, when the latter is carried by the crank K, and when the whole of the parts are arranged for joint action, substantially as and for the purpose herein set forth."

No. 23,158. ALLEN CUMMINGS, of New York, N.Y., for an "Improvement in ash-sifters."

"Having now described my device of 'ash-sifter,' what I claim therein, and desire to secure by Patent, is, the combina-

tion of the pyramidal or conical formed distributor interposed between the entrance and the sieve, the latter being of similar form, inverted, these being arranged in relation to each other and to the diaphragm and receptacles, substantially as and for the purpose explained."

No. 23,159. C. H. Dawson, of Jacksonville, Ill., for an "Improvement in cultivators."

"I do not claim, broadly, placing one plow by the side of another to form a gang plow, nor do I claim placing one plow before another, both being secured to one beam, and one adjusted lower than the other, to form a sub-soil plow, for such devices have been previously used; but, having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the plow beams D, D, arranged as shown, in connection with the roller *o*, applied to the machine, substantially as and for the purpose set forth."

No. 23,160. Michael A. Deitz, of Brooklyn, N. Y., for an "Improvement in lamps."—Antedated 8th September, 1858.

"Having thus described my improvement, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of an air chamber (*d*) in the top of a lamp having a flat wick, when said lamp is provided with a cone or deflector (B) for feeding air to the flame, and the air chamber (*d*) with a series of holes (Z) for the admission of fresh air, and openings (*f*) for its passage upwards along the sides of the wick tube, or their or either of their equivalents, in the manner and for the purposes substantially as set forth."

No. 23,161. A. F. Endriss, of New York, N. Y., for an "Improvement in machines for folding and registering paper."

"What I claim as new and of my invention, and desire to secure by Letters Patent, is, the arrangement of a series of folding knives F, F^1, F^{11}, at right angles to one another, in the same sliding frame B, which is constructed and operated substantially as set forth. And I also claim arranging the sliding frame B in such a manner that it operates a registering apparatus *k*, by means of a lever *o*, substantially as and for the purpose specified."

No. 23,162. James L. Fagan, of Anaqua, Texas, for "Improved rotary pumps."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of the rotating hollow shaft B, provided with a valve *b*, the cylinder A attached to said shaft, perforated at *a*, and having the adjustable or hinged valve or piston H secured within it, and the stationary stop or cut-off I attached to the bed plate C, and fitted within the cylinder A, the whole being arranged and applied for joint operation, substantially as and for the purpose set forth."

No. 23,163. James P. Gage, of New York, N. Y., for an "Improvement in balloons."

"I am aware that the idea of producing an advance or lateral motion of balloons by pressure upon the air of flat surfaces, fans, or wings, has been before entertained; I do not therefore claim that as my discovery and invention; but what I claim as my invention, and for which I desire Letters Patent, is, the operating upon the air by the instrumentability of the balloon itself, constructed in a diamond or lozenge-shaped figure, or any other substantially similar figure, presenting a flat surface to the air, arranged and adjusted with the car suspended from the lowest central point of the balloon by a rod, with link joints or their equivalents, and operated by the fore and aft and side halyards, in the manner and for the purposes described; and I also claim the manner of arranging and adjusting a diamond-shaped flat frame or surface (or any similar shape) to a spherical balloon, with the car suspended underneath (as shown in Figure VIII.), operating in the manner and for the purposes described."

No. 23,164. Chas. C. Garrett, of Spring Hill, Ala., for an "Improvement in cotton-seed planters."

"What I claim as new, and desire to secure by Letters Patent, is, I claim in combination with the wheel J, and brushes *j*, *j*, the adjustable plates *k*, *k*, arranged substantially as and for the purpose specified."

No. 23,165. Samuel Gaty and Amos Howe, of St. Louis, Mo., for an "Improved method of operating puppet valves of steam-engines."

"What we claim as our invention, and desire to secure by Letters Patent, is,—First, the steam lifters J, J, exhaust lifters *k*, *k*, and puppet heads B, B^1, with their respective faces, as herein described, for the purpose of operating steam and exhaust valves of pupet valve steam engines. Second, the lifter J, in combination with the jointed lifting piece T, puppet head B, and graduated cut-off ring or sector M, for the purpose of producing a variable expansion motion, self-regulating or otherwise, substantially as herein described. Third, the relative adjustment of the cutt-off rings M, M, for the purpose of admitting steam in equal quantities in each end of the steam cylinder, in the manner herein described."

No. 23,166. W. Y. Gill, of Henderson, Ky., for an "Improved steam gauge."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, constructing a steam gauge, in which a piston acts in opposition to a spring, in such a manner that the lower portion of the same acts as an alarm by means of openings *c*, and so that the indication may be marked on one or more sides of the upper portion E of the stem, substantially as herein specified. 2nd, constructing the portion C of the piston of a smaller diameter than the lower and upper portions E, B, and arranging the spring F on the portion C, above the lower packed portion B and below the indicating portion E, substantially as and for the purposes set forth."

No. 23,167. Jonathan Griffin, of Stanford, N. Y., for an "Improvement in burning fluids."

"What I claim as my invention, and desire to secure by Letters Patent, is, the burning fluids A, C, and D, formed in the manner, and of the materials, substantially and for the purpose set forth."

No. 23,168. John Griffin, of Louisville, Ky., for an "Improvement in cotton harvesters."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the cylinder C, one or more provided with a perforated plate a^1, flexible tube or tubes *d*, and made to communicate with a steam boiler A, by means of the tubes *f*, *g*, D, substantially as and for the purpose set forth."

No. 23,169. A. J. Hamilton, of Kewaunee, Ill., for an "Improved method of operating farm gates by approaching vehicles."

"Having fully described the construction and operation of my improved automatic gate, what I claim therein as new, and desire to secure by Letters Patent, is, 1stly, in combination with the two road levers D, D^1, constructed as described, the rigid actuating rods *k* and *m*, crank lever *h*, latch rod *g*, swivel bar *b*, and latches *c* and *d*, substantially as described for the purposes set forth. 2ndly, in combination with the road levers D, D^1, the elevations or hedges E and E, as described, for the purposes set forth."

No. 23,170. Theodore Heermans, of Mitchellville, Tenn., for an "Improvement in cultivators."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the screw tapped shoulder or flang C, and screw shank *b* of the cultivator teeth, in combination with the screw nut *d*, having a series of auxilliary screw tapped holes *e*, *e*, and with the separate auxilliary screw *f*, in the manner and for the purpose herein described. 2nd, in combination with the above, the specified arrangement of large and small cultivator teeth A, B, C, for the purposes herein described."

No. 23,171. John Henderson, of Bluff Springs, Miss., for an "Improvement in cotton scrapers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the forked bar F and brace bar C in combination with the beam B and wings A of a double-winged cotton scraper, when constructed and arranged in the manner set forth."

No. 23,172. Richard M. Hoe, of New York, N. Y., for a "Machine for printing rail road and other tickets."

"First, I claim the peculiar mechanism, or its equivalent, for moving the registering disks on their axes at at the proper times, by which means the tickets are numbered consecutively, substantially as described. Second, I claim giving such a movement to the registering disks as will cause said disks to approach, press against, and travel with the impression cylinder, thus giving an impression to the roll of paper, then reced to change the figures of the disks, and allow the inking roller *c* 31 to perform, and then again to approach the impression cylinder, and so on as before, substantially as before described. Third, I claim the adjustment of any derangement of the registering disks, caused by slip jar of the machine or other cause, by means of the plates *c* 32 & *c* 33,

or any other means substantially the same. Fourth, I claim inking in a different color the registering figures, by means of a seperate inking apparatus, substantially as described. Fifth, I claim the printing the numbers on the tickets while the said tickets are continuously advancing, in the manner substantially as above described. Sixth, I claim the guide c 39 placed between the impression cylinder and the cutter Y, or its equivalent, for retaining the strip of continually advancing paper in its proper direction, while its lower end is stopped by the action of the cutter when seperating a ticket from the roll. Seventh, I claim the combination of the parts by which the tickets are deposited (after being cut) in a vertical position in contradistinction to flatwise in the trough c 43, destined to receive them. Eight, I claim the combination of the slide c 46, the spring catches c 44, c 44, and the sliding block c 45, by which the accumulating tickets are kept in a vertical position."

No. 23,173. Francis L. Kidder, of Williamsburgh, N. Y., for an "Improvement in attaching carriage thills to axles."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the pivoted spring plate E, thill C, spring (*f*), hook D, and self-adjusting key (*d*), as and for the purpose herein shown and described."

No. 23,174. Joseph H. Kite, of Conrads Store, Va., for an "Improvement in corn harvesters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the horizontally revolving cutters *i*, *i*, vertically revolving bevels wheels *k*, *k*, having plain peripheries, endless apron V, V, V, axle G, hollow shaft H, and peculiar spring clutch arrangement N, N, P, S^1, *q*, *r*, substantially as and for the purposes set forth."

No. 23,175. Daniel H. Krauser, of Pottsville, Pa., for an "Improved machine for turning irregular forms."

"Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent, is, 1st, the manner of causing the carriage L, which supports the work, to traverse over the cutters by means of the pulleys E, F, *e*, and G, belts *c* and *k*, endless chain *m*, crank arms I, and connecting rods K, arranged and operating as before described, in combination with the means described for turning the work on its axis through the plates M, bent levers N, pawls S, and ratchet wheel O, substantially as set forth. I do not claim the reverse patern wheel W in itself as new; but what I do claim is, secondly, the arrangement of the pulley Q, belt *v*, spindle R, in fram S, with the reverse patern wheel W, arranged and operating as set forth and described."

No. 23,176. Edward L. Lamb and Samuel Wood, of Keokuk, Iowa, for an "Improvement in moulding female screws."

"What we claim, and desire to secure by Letters Patent, is, the match plate (*a*, a^1,) having both the exterior and interior of the pattern formed on it, when the same is divided vertically on a center line, and adapted to a suitable flask, and resting guides, on which the two halves of the plate can be withdrawn laterally in opposite directions from the core substantially as described, for the purpose of moulding female screws, or other articles which do not admit of having the pattern removed vertically from the core."

No. 23,177. Thomas Lavender, of Philadelphia, Pa., for an "Improved metallic lining for water coolers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the lining or casing, or casing of an ordinary metallic vessel with tin prepared and applied in the manner and for the purpose substantially as above described."

No. 23,178. Lucius Leavenworth, of Trumansburg, N. Y., for an "Improved clothes fastener."

"What I claim as my invention, and desire to secure by Letters Patent, is, a clothes fastener made of a single piece or block, and having an open angular or curved groove therein to receive and hold the line and clothes upon it by diverging or kinking said line, substantially as herein described, and thus simplifying and cheapening the clasp, by dispensing with the button heretofore used."

No. 23,179. Jos. Leeds, of Philadelphia, Pa., for an "Improvement in chimneys."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with an outer chimney or casing A, and an inner passage B, two or more ducts or passages between the two, for heat, ventilation, or draft, when said inner passages or flues are made by setting on top of each other iron sections with flanges upon them, substantially as herein described."

No. 23,180. Nathaniel I. Lilly, of Selma, Ala., for an "Improvement in cotton presses."

"What I claim, and desire to secure by Letters Patent, is, the combination of the boxes B, B^1, bar A, and followers F, F, with the shaft C, having the opposite ratchets thereon, and the swinging weighted catch *d* hung in the bar A, together with the rack R, and pinion P, the whole operating as set forth."

No. 23,181. James Little, of Evansville, Ind., for an "Improved machine for cutting staves from the block."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the hollow cylinder E, provided with the knives *h*, *h*, and gauge strips K, in connection with the bed B, and the feeding belts H, H, or their equivalents, the parts being arranged to operate, substantially as and for the purpose set forth."

No. 23,182. Daniel Markham, A. S. Markham, and David Eldred, of Monmouth, Ill., for an "Improvement in cultivators."

"Having thus described our invention, what we claim as new, and desire to secure by Letters, is, the frame A, formed of two parts *a*, *a*, connected by the traverse bars *b*, and provided with the sliding or adjustable frames C, C, with the bars E, and plows F, attached, substantially as and for the purpose set forth."

No. 23,183. Daniel Markham, A. S. Markham, and David Eldred, of Monmouth, Ill., for an "Improvement in seeding machines."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the adjustable standards H^1, M, knife L, share K, wings or mould boards J, J, with or without the tube I, arranged for joint operation, substantially as and for the purpose set forth."

No. 23,184. H. L. McAvoy, of Baltimore, Md., for an "Improved refrigerator."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of a rising and falling shelf frame with a non-conducting refrigerator casing, substantially as and for the purposes set forth."

No. 23,185. Josiah V. Meigs, of Nashville, Tenn., for an "Improvement in cooking stoves."

"Having thus described my improvements in cooking stoves, what I claim therein as new, and desire to secure by Letters Patent, is, the arrangement of the bottom plate of the oven in the same plane as the top plate of the fire pot, in connection with the arrangement of the flues leading from the side of the fire pot, directly beneath the bottom of the oven and around it, substantially as described, for the purpose set forth."

No. 23,186. Jeremiah Mitchell, of Gosport, N. Y., for an "Improved churn."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the revolving box or churn, when constructed and operated substantially in the manner and for the purpose set forth."

No. 23,187. William F. Morgan, of Rochester, N. Y., for an "Improvement in machines for shearing sheep."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of the cutting device, scroll spring *f*, and necessary gearing, substantially as described and for the purpose set forth. I further claim the pressure lever *t*, substantially as and for the purpose described."

No. 23,188. James Montgomery, of New York, N. Y., for an "Improvement in iron pavement."

"I claim as new and of my invention, and desire to secure by Letters Patent, 1st, a metallic pavement, con-

sisting of a series of ribs or laminæ in planes parallel or nearly so, connected at alternate or varying levels by webs of metal, substantially as and for the purpose set forth. 2nd, constructing metallic paving plates with ribs or arches of greater vertical depth in their intervening portion than at or near their sustained edges. 3rd, the described combination of a concave or other suitably formed rail E, with the projecting edge a^1 of the paving plate A, and the underlying edges of the plates A and A^1, for the purposes set forth. 4th, the described construction and application of the buttress plate B, in conection with the plate A and curbstone C, for the purpose explained. 5th, connecting the edges of ribbed or arched paving plates by tongue and grooved joints, as shown in Figs. 9 to 13, or in any mechanically equivalent form."

No. 23,189. James Montgomery, of New York, N. Y., for an "Improvement in iron pavement."

"I claim as new, and of my invention herein, a street paving, presenting on its upper surface a series of ribs corrugated or winding in a horizontal plane, substantially as and for the purposes set forth."

No. 23,190. James Willard Patterson and Levi Hanford Colborn, of Baltimore, Md., for an "Improvement in harvesters."

"Having thus fully described our improvements, what we claim as our invention, and desire to secure by Letters Patent, is, the combination of the cutting knife *b*, the bar *e*, and projections *o* upon the guards *i*, arranged substantially in the manner and for the purposes herein described."

No. 23,191. Richard Peterson, of Philadelphia, Pa., for an "Improvement in cooking stoves."

"I do not claim, broadly, introducing jets of air at the rear of the fire in cooking stoves, various devices for accomplishing this end having been herctofore used; but I claim, and desire to secure by Letters Patent, the protecting plate H, with its perforations *m*, when arranged in respect to the oven, the fireplace, and the flues of an elevated oven cooking stove, in the manner herein set forth, so that the products of combustion, after passing from the body of the fuel, and at the point where they impinge against and are dispersed by the said protecting plate prior to passing some over and others under the oven, may be met by and intermixed with jets of heated air for the purpose specified."

No. 23,192. William Powers, of Youngstown, Ohio, for an "Improvement in bee-hives."

"I do not claim, broadly, a hive constructed with double walls; but what I do claim as my invention, and desire to secure by Letters Patent, is, the cap or cover C of double walls, the inner one perforated as shown at *e*, *e*, and the space between filled with charcoal, in the manner and for the purpose specified."

No. 23,193. Andrew Ralston, of West Middletown, Pa., for an "Improvement in cleaning castings."

"Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention, and desire to secure by Letters Patent of the United States, is, the combination of flexible pickers, brooms, or brushes, having a reciprocating, alternate, or oscillating movement, with an elevating and depressing table, the whole being arranged, combined, and operated as herein described and for the purpose set forth."

No. 23,194. Andrew Ralston, of West Middletown, Pa., for an "Improvement in harvesters."

"Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention, and desire to secure by Letters Patent of the United States, is, first, the arrangement of the receiving apron (*d*), sheaf trough (*e*), compressing hook (*u*), and levers (*h*, *i*), and (*j*), when used in connection with the horizontal and inclined gathering aprons (w^1), as herein described and for the purpose set forth. Second, the use of the shocking carriage (*o*), furnished with a shock chamber, having a movable bottom in two parts (*p*) and (*q*), as herein described and for the purpose set forth."

No. 23,195. John L. Rowe, of New York, N.Y., for a "Pen-wiper and paper-weight."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the base or weight A with cup *j* attached, provided with the sponge *k*, in connection with the pressure pad or sponge *i*, connected with the base by means of the frame B, and arranged as shown and described, or in an equivalent way for the purpose set forth."

No. 23,196. Archibald G. Shaver, of Hartford, Conn., for an "Eraser and pencil-sharpener."

"What I claim as my invention, and desire to secure by Letters Patent, is, the curved blade eraser with the circular edge pencil-sharpener, and the groove for finishing the pencil point in combination, in the manner and for the purposes substantially as herein set forth and described."

No. 23,197. George Smith, of Brooklyn, N. Y., for an "Improved cradle wagon."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, as a new and improved article of manufacture, is, a cradle and wagon combined, when the several parts are constructed and operated substantially in the manner herein described."

No. 23,198. Horace W. Smith, of Hartford, Conn., for an "Improvement in cocks for water basins."

"What I claim as my invention, and desire to secure by Letters Patent, is, the intermediate spindle E, in combination with the vertical valve H, in the manner and for the purpose substantially as set forth."

No. 23,199. Simon P. Snyder and George W. Cook, of Minneapolis, Minn., for an "Improved propeller."

"What we claim as new, and desire to secure by Letters Patent, is, the arrangement and construction of a propeller substantially as shown and described; also inclining the shaft of a propeller in relation to the boat, in two directions as above set forth. Also the combination of a screw thread on the propeller shaft, with a screw thread in the brace plates forming the hub of the propeller, and with keys, for the purpose of adjusting and fastening the wheel on the shaft, the whole being arranged as above set forth."

No. 23,200. James H. Stimpson, of Baltimore, Md., for an "Improved ice pitcher."

"What I claim as my invention, and desire to secure by Letters Patent, is, a double or treble walled ice pitcher, having its inside wall or shell composed of iron or other metal lined or coated internally with porclain as herein described, the same constituting a new article of manufacture."

No. 23,201. Uriah F. Stuart and Calvin E. Stewart, of Fayette County, Tenn., for an "Improvement in cotton presses."

"We do not claim the invention of the rack bar and pinion used in this invention; but we do claim the combination of the rack and pinion with the rope and windlass for operating a press with two pressing boxes constructed substantially as described."

No. 23,202. Charles B. Tatham, of Brooklyn, N. Y., for an "Improvement in manufacture of shot."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the melting pot, the regulating valve, the conductor, and the set pan, substantially as herein described, for dropping shot, as set forth."

No. 23,203. Leopold Thomas and Joseph Thomas, of Brooklyn, N. Y., for an "Improvement in lamp lighters."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the arrangement of a trigger I, or its equivalent, in such a relation to a serrated sector *k*, and to a ratchet wheel G, that by the motion of the trigger a piece of fuse from a roller D is fed up and lit, substantially in the manner and for the purpose herein specified. And we also claim the arrangement of a continuous fuse in combination with the lamp, substantially as and for the purpose set forth."

No. 23,204. John Van Riswick, of Washington, D. C., for an "Improvement in brick machines."

"Having thus fully described my invention, I do not claim the employment of two cams and plungers, or the disk provided with moulds; nor do I claim the hopper at or near the periphery of the disk for feeding the clay immediately to the moulds, as these devices are not new; but what I claim, and desire to secure by Letters Patent, as an improvement in the dry clay brick machine, is, the combination and arrangement of the curved or angular hopper C with the mould disk A, and vertically reciprocating plungers D, whereby the upper plungers are caused to pass the hopper without lateral movement, in the manner and for the purposes specified."

No. 23,205. Hugh Wallace and William Mellon, of North Sewickly, Pa., for an "Improvement in grain cleaning machines."

"We are aware that cylinders with shells or concaves have been used before, for the purpose of pulverizing, rubbing, or grinding substances, and wish it distinctly understood that we do not claim this; but what we do claim herein as new, and desire to secure by Letters Patent, is, the arrangement of the valve *b*, ducts D^{I} and D^{II}, and sieves *w* and *r*, substantially as described, and for the purpose set forth."

No. 23,206. George Watt, of Richmond, Va., for an "Improvement in seed planters."

"I claim the series of angular-faced rollers arranged relative to their shaft, as described, for opening the furrows, in combination with the seed tubes and covers, substantially as specified."

No. 23,207. Charles Wells, of Monroeton, and William Douglass, of Bradford County, Pa., for an "Improvement in water-wheels."

"Having described the construction and operation of our improved water-wheel, what we claim, and desire to secure by Letters Patent, is, the combination of the scrolls H, vertical buckets F, and lower buckets G, the whole constructed and arranged as described for the purpose set forth."

No. 23,208. Loren J. Wicks, of Racine, Wis., for an "Improved churn."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement in a square churn A, which is provided with a ventillating top of the shaft G, inclined arms *j*, *j*, *j*, *j*, cross-pieces *i*, *i*, and funnels *k*, *k*, *k*, *k*, the same being combined and operated in the manner and for the purpose herein specified."

No. 23,209. C. S. Wheeler, of Flowerfield, Mich., for an "Improvement in apparatus for evaporating fluids."

"1st, Having thus fully described my improved apparatus for reducing sacharine, saline, and other fluids to a crystaline state, what I claim therein as new, and desire to secure by Letters Patent, is, combining the evaporating pan A with the steam boilers *a*, *a*, *a*, in such a manner as to cause the upper sides of said boilers to form highly efficient heating surfaces within said evaporating pan, substantially as herein set forth. 2nd, I also claim conducting the steam from the boilers *a*, *a*, *a*, to the engine, which may be combined therewith, through the medium of a series of pipes (*b*, *b*, *b*, *c*, *d*, *d*, *d*, & *e*) which are so located that their peripheries form portions of the heating surface of the evaporating pan, but this I only claim when the said evaporating pan is combined with a series of steam boilers, substantially as herein set forth. 3rd, I also claim combining the spaces between the double bottoms of the clarifying pans *h*, *h*, *h*, with the steam boilers *a*, *a*, *a*, when the said pans and boilers are arranged with each other, and with the evaporating pan A, substantially as herein set forth. 4th, I also claim the passing of the fluid to be reduced, through a coil of pipe *l*, located within the chimney or flue space, before discharging the same into the clarifying pans, but this I only claim when the said clarifying pans are arranged with the evaporating pan (A), and the series of steam boilers (*a*, *a*, a_2), substantially as herein set forth."

No. 23,210. William Wilber, of New York, N.Y., for an "Improvement in burning fluids."

"Having thus fully described my burning compound, and the manner of making and compounding the same, what I claim is, a fluid compound for burning in lamps, &c., made of coal tar, camphine, and alcohol, substantially in the proportions and manner herein set forth."

No. 23,211. Solomon Williams, jr., of Hume, N.Y., for an "Improvement in ploughs."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of the adjustable wheel G, with the land side D of the plow, substantially as herein shown and described, for the purposes set forth."

No. 23,212. Chauncey D. Woodruff, of Toledo, Ohio, for "Firemen's protector."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the double walled sheet or plate metal house D^{I}, and mounted on wheels B, B, and provided with look-out holes *d*, and an adjustable plate *e* to receive the nozzle or butt *g*, the house being placed on rollers *i* in the platform, and secured by buttons *f*, or their equivalents, the whole being arranged substantially as and for the purpose set forth."

No. 23,213. E. O. Baxter, of Forreston, Ill., assignor to himself, E. H. Riley, and W. T. Sweet, of said Forreston, for an "Improvement in seeding machines."

"What I claim as new, and desire to secure by Letters Patent, is, 1st, the cam *n*, one or more attached to wheel C, in combination with the jointed pendant F, attached to the lever E, substantially as and for the purpose set forth. 2nd, the levers E, E, connected together and arranged relatively with each other and the driver's seat I, substantially as and for the purpose specified."

No. 23,214. William H. Burnap and John A. Bradshaw, of Lowell, Mass., assignor to W. H. Burnap aforesaid, for an "Improvement in electro-magnetic machines."

"What we claim as our invention, and desire to secure by Letters Patent, is, applying the oscillating balance wheel D with its shaft *j*, in line with but detached from a rock shaft *g* or its equivalent, carrying an arm *f*, which derives a positive oscillating movement from the train of gearing which drives the magneto-electric machine, and connecting the spring *k* which is attached to said balance wheel with the so-arranged positively moving arm, substantially as and for the purpose herein specified."

No. 23,215. Robert M. Campbell, of East Cambridge, Mass., assignor to William G. Crombie, of Boston, Mass., for a "Burglars' alarm."

"I do not claim a percussion alarm, a gimlet or any such means of fastening the same to a door casing; but what I do claim is, the application of the spring fastener G to the alarm or its case, so as to be capable of sliding and turning with reference to the same, substantially in manner as specified."

No. 23,216. Cancelled.

No. 23,217. Moses G. Farmer, of Salem, and William F. Channing, of Boston, Mass., assignor to William F. Channing aforesaid, for an "Improved electro-magnetic fire alarm apparatus."

"What we claim as our invention, and desire to secure by Letters Patent, is, the independent keys D, E, F, with their pins *d*, *e*, *f*, in combination with the rack A, and a means of liberating the rack for the purpose set forth. 2, we also claim the arrangement of the segments on the circuit wheel in combination with the springs or their equivalents, for throwing the electric current successively on to different circuits. 3rd, we claim the double circuit wheel or its equivalent for the purpose of completing and interrupting an electric circuit at both ends, essentially as set forth."

No. 23,218. R. Gleason, jr., of Dorchester, Mass., assignor to R. Gleason and Sons, of said Dorchester, for an "Improved table caster."

"I do not claim separately any of the parts herein shown and described when separately considered; but I desire to secure by Letters Patent a claim as a new and useful article of manufacture, a caster, egg stand, and table bell, arranged and combined as herein shown and described."

No. 23,219. Thomas Gray, of Philadelphia, Pa., assignor to himself and James M. Sankey, of said Philadelphia, for an "Improved extension table."

"I am aware that bars, so hinged together as to open and close, have been heretofore used in connection with extension tables; I do not, therefore, claim broadly such a device; but I claim, and desire to secure by Letters Patent, first, the method of constructing and of connecting together the two cross bars H and H^{1}, that is to say, constructing one bar H in two parts, and connecting the two parts together by the two plates *e* and e^{1}, which admit the bar H^{1}, and afford a means of joining it to the bar H^{1}, as herein set forth. Second, the combination of the screw I, block G, bars E and F, and cross bars H and H^{1}, with the two ends of the table, the whole being arranged for joint action, substantially as and for the purpose herein set forth."

No. 23,220. George W. Miles, of Michigan, City Ind., and Philander P. Lane, of Cincinnati, Ohio, assignors to Lane and Badley, of said Cincinnati, Ohio, for an "Improved machine for hewing out hubs."

"We claim as new, and of our invention herein, 1st, the described arrangement and combination of the axles C, C^{1},

stud shaft I, and rotating rest J, for hewing out cylindrical forms in the manner set forth. 2nd, in combination with the above, the ways D, D, carriage E, feed arm F, pawls G, and rack H, arranged and operating together, substantially as and for the purposes explained."

No. 23,221. JOHN NORTH, of Middletown, Conn., assignor to himself and D. Appleton and Co., of New York, N. Y., for a "Register for sheets of paper."

"Having thus fully described my mode and apparatus for making register point holes, what I claim as my invention, and desire to secure by Letters Patent, is,—first, the attaching to the feed table of the printing press of two or more register points in addition to those commonly used for printing, so as to make register point holes in the sheet to be printed at the exact points required for the purpose of feeding the sheet in register to folding machines to be folded. Second, I claim the application for that purpose of the above-described mechanism, or other suitable mechanism of the same general description, attached to the feed table, frame, and carriage of the printing press, and which will produce the intended effect."

No. 23,222. SAMUEL MCQUERNS and WILLIAM LYON, of the district of Abbeville, South Carolina, administrator of the estate of Benjamin M. Lyon, deceased, for an "Improved bedstead."

"What we claim, and desire to secure by Letters Patent, is, the use of the hinges in the middle of both the cross and longitudinal rails, in combination with the hinges between the rails and posts, substantially as and for the purposes specified."

RE-ISSUES.

JOSEPH W. GARDNER, of Shelburne Falls, Mass., for "Improved handles for table cutlery."—Patented 1st February, 1859.—Re-issued 8th March, 1859.

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, forming the handle of two parts (*a*), (*b*), which are encompassed at their junction by a ferrule (*d*), the tang A passing through both parts of the handle, and the parts being secured thereon by a nut or washer (*e*), or a rivet (e^1), substantially as described."

HENRY C. FOOTE, of Wallingford, Conn., for a "Design for table bells."

"Having thus fully described my invention or production, what I claim is, a design for a tea bell, composed of an ornamented base mounted by a ferrule figure, as herein represented."

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Notices to Proceed.

NOTICE is hereby given, that

2678. FREDERICK HERBERT MABERLY, of Stowmarket, in the county of Suffolk, Master of Arts, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in candlesticks."

2680. And FREDERICK LOOS, of Mercer Street, Long Acre, London, has given the like notice in respect of the invention of "Improvements in gas regulators."

As set forth in their respective petitions, both recorded in the said office on the 25th day of November, 1858.

2696. And JOHN RAMSBOTTOM, of Accrington, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus applicable to water meters, and to indicating and regulating the flow and pressure of fluids generally, and in obtaining motive power from the same."

2702. And GEORGE BOWDEN SANDER, of High Holborn, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in jugs."

2704. And SQUIRE DIGGLE, of Radcliffe, in the county of Lancaster, Machine Maker, has given the like notice in respect of the invention of "Improvements in pattern chains or other such apparatus used in weaving."

As set forth in their respective petitions, all recorded in the said office on the 27th day of November, 1858.

2706. And LOUIS ANTOINE POSSOZ, Chemist, of Rue Neuve St. Augustine, No. 9, Paris, in the empire of France, has given the like notice in respect of the invention of "Manufacturing alkalies and obtaining simultaneously other chemical products."

2712. And GEORGE HADFIELD, of Carlisle, Varnish Manufacturer, has given the like notice in respect of the invention of "Improvements in the construction of carboys, barrels, and other vessels of capacity."

2716. And WILLIAM ARTHUR HENRY, of Sheffield, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for attaching the soles and heels of boots and shoes to the upper leathers, and in the fastenings employed for that purpose."

2723. And DANIEL EVANS, of Chobham Cottages, New Town, Stratford, in the county of Essex, and GEORGE JONES, of Charlotte Place, Upper Kennington Lane, in the county of Surrey, Engineers, have given the like notice in respect of the invention of "Improvements in pumps and water guages."

As set forth in their respective petitions, all recorded in the said office on the 29th day of November, 1858.

2729. And JOHN THOW and THOMAS MITCHESON HALL, both of Preston, in the county of Lancaster, Engineers, have given the like notice in respect of the invention of "Preventing the fusion of the fire-bars in locomotive or other furnaces."

2731. And GOTTLIEB BOCCIUS, of Totnes, in the county of Devon, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of furnaces."

As set forth in their respective petitions, both recorded in the said office on the 30th day of November, 1858.

2742. And JAMES SAMUEL, of Great George Street, in the city of Westminster, Civil Engineer, and JOHN NICHOLSON, of Wellington Street, Bromley, in the county of Middlesex, Engineer, have given the like notice in respect of the invention of "Improvements in, and in connection with, marine and other steam engines."

2743. And EBENEZER VINEY, of the firm of John Viney and Son, of Cornhill, in the city of London, Portmanteau Manufacturers, has given the like notice in respect of the invention of "An improvement in the construction of portmanteaus, desks, dressing cases, despatch-boxes, and other like articles."

2752. And JOHN LEWIS, of Elizabeth, in the county of Essex, and State of New Jersey, United States of America, has given the like notice in respect of the invention of "Improvements in means for attaching sails to the yards of ships or vessels."

As set forth in their respective petitions, all recorded in the said office on the 1st day of December, 1858.

2758. And JACOBUS TYSSEN, of Rotterdam, in the kingdom of Holland, Mariner, has given the like notice in respect of the invention of "Improvements in obtaining and applying motive power."

As set forth in his petition, recorded in the said office on the 2nd day of December, 1858.

2770. And HENRY BEVAN, of Shrewsbury, in the county of Salop, Accountant, has given the like notice in respect of the invention of "New or improved machines for effecting or facilitating arithmetical operations."

As set forth in his petition, recorded in the said office on the 3rd day of December, 1858.

2773. And LAWRENCE WOOD FLETCHER, of Bleaklow, near Bury, in the county of Lancaster, Spinner and Manufacturer, has given the like notice in respect of the invention of "Improvements in the construction of electric telegraph cables."

2779. And JEAN BAPTISTE ANTOINE MONNIER, of Nemours (Seine et Marne), France, has giveu the like notice in respect of the invention of "Improvements in actuating railway brakes."

As set forth in their respective petitions, both recorded in the said office on the 4th day of December, 1858.

2790. And JAMES MUIR, of Glasgow, in the county of Lanark, North Britain, Pattern Designer, and FRANCIS MUIR, of Paisley, in the county of Renfrew, North Britain, Pattern Printer, has given the like notice in respect of the invention of "Improvements in ornamental or colour printing."

2795. And FREDERICK WILLIAM FLETCHER, of Erdington, near Birmingham, in the county of Warwick, Tube and Nail Manufacturer, has given the like notice in respect of the invention of "Improvements in bolts for securing doors, and for other similar purposes."

As set forth in their respective petitions, both recorded in the said office on the 6th day of December, 1858.

2830. And ETIENNE LÉON PENSUETE, of Dunkirk, in the empire of France, has given the like notice in respect of the invention of "Improvements in apparatus for driving or for drawing up piles by steam."

As set forth in his petition, recorded in the said office on the 9th day of December, 1858.

2874. And CHARLES FRÉDERIC VASSEROT, of No. 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "An improved pendulum governor for regulating the supply of steam to the cylinders of marine engines."—A communication from Mr. Billotet, residing at Marseilles, in the empire of France.

As set forth in his petition, recorded in the said office on the 15th day of December, 1858.

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18. And ISAAC WOOD, of Charing Cross, has given the like notice in respect of the invention of "Improvements in cutting and finishing corks, and in machinery used for such purposes."—A communication from abroad by Henry F. Cox and Alexander Millar, of New York.

As set forth in his petition, recorded in the said office on the 1st day of January, 1859.

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86. And ROBERT HAWTHORN and WILLIAM HAWTHORN, both of the town and county of Newcastle-upon-Tyne, Engineers, have given the like notice in respect of the invention of "Improvements in apparatus for promoting combustion, and preventing smoke in coal burning locomotives, and other steam-boiler furnaces."

As set forth in their petition, recorded in the said office on the 11th day of January, 1859.

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284. And RICHARD NEEDHAM, of Dukinfield, in the county of Chester, Engineer, has given the like notice in respect of the invention of "An improved water-gauge for steam boilers."

289. And RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in sewing machines."—A communication by J. P. Pirsson, residing in New York.

As set forth in their respective petitions, both recorded in the said office on the 1st day of February, 1859.

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446. And THOMAS CATTELL, of No. 30, Euston Square, in the county of Middlesex, M.D., has given the like notice in respect of the invention of "Improvements in treating and purifying gutta percha."

As set forth in his petition, recorded in the said office on the 17th day of February, 1859.

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491. And WILLIAM ASHTON, of Heaton Norris, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Improvements in gas regulators."

As set forth in his petition, recorded in the said office on the 23rd day of February, 1859.

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546. And JOHN THOMSON CARTER, of Belfast, in the county of Antrim, Flax Spinner, has given the like notice in respect of the invention of "Improvements in machinery for crushing, bruising, and preparing flax, hemp, and other fibrous materials requiring such treatment."

As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

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577. And CHARLES ROPER MEAD, of 176, Great Dover Street, in the borough of Southwark, Gas Engineer, has given the like notice in respect of the invention of "Improvements in water gas meters."

As set forth in his petition, recorded in the said office on the 4th day of March, 1859.

592. And WILLIAM PALMER, of Long Eaton, in the county of Derby, Station Master, has given the like notice in respect of the invention of "An improved railway carriage break and coupling apparatus connected therewith."

As set forth in his petition, recorded in the said office on the 7th day of March, 1859.

613. And JOHN ERWOOD, of 132, Goswell Street, Clerkenwell, in the county of Middlesex, Paper Stainer, and JOSEPH SKERTCHLY, of Ashby-de-la-Zouch, in the county of Leicester, Engineer, have given the like notice in respect of the invention of "Improvements in the manufacture of glass, sand, and emery papers and cloths, and other similar articles used for like purposes."

615. And JOHN SCOTT RUSSELL, of Great George Street, Westminster, has given the like notice in respect of the invention of "Improvements in building ships and other vessels."

As set forth in their respective petitions, both recorded in the said office on the 9th day of March, 1859.

630. And ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved construction of steam engine, applicable also to the raising of water."—A communication from abroad, by Samuel Huse, of the United States of America.

As set forth in his petition, recorded in the said office on the 11th day of March, 1859.

639. And JAMES MACNAB, of the town and county of Linlithgow, North Britain, Designer, has given the like notice in respect of the invention of "Improvements in telegraphing or signalling apparatus."

As set forth in his petition, recorded in the said office on the 12th day of March, 1859.

642. And ALFRED TYLOR, of Warwick Lane, Newgate Street, has given the like notice in respect of the invention of "Improvements in apparatus for regulating the supply of water to water-closets and other vessels."

As set forth in his petition, recorded in the said office on the 14th day of March, 1859.

705. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in propelling vessels."—A communication from abroad, by Theodore W. Phinney, of Newport, Rhode Island.

As set forth in his petition, recorded in the said office on the 19th day of March, 1859.

729. And Sir PETER FAIRBAIRN, of Leeds, in the county of York, Knight, and ROBERT NEWTON, of Leeds aforesaid, Commercial Traveller, have given the like notice in respect of the invention of "Straightening and separating the fibres of silk waste, and laying them in parallel lengths preparatory to combing or dressing."

As set forth in their petition, recorded in the said office on the 22nd day of March, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of LETTERS PATENT which passed the Great Seal on the

5th April, 1859.

2137. ALFRED FAUVIN JALOUREAU, of Paris, in the French empire, Manufacturer, for an invention of "Improvements in the manufacture of pipes."—Dated 23rd September, 1858.

2212. GEORGE HAMILTON, of St. Martin's-le-Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, for an invention of "Improvements in locks."—Dated 5th October, 1858.

2217. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "A new method of joining sheet iron, cast iron, gutta percha, and other tubes by means of muffles."—A communication from a Foreigner residing abroad.—Dated 6th October, 1858.

2226. DONALD NICOLL, of the firm of H. J. and D. Nicoll, 114, Regent Street, and 22, Cornhill, London, for an invention of "Improvements in the manufacture of cloaks and other garments, and for their application to purposes to which they have not hitherto been applied."—Dated 7th October, 1858.

2229. JEAN CLAUDE NOUVEAU, of 2, Rue Sainte Appoline, Paris, in the empire of France, and of 45, Essex Street, Strand, London, for an invention of "Improvements in stopping or stoppering bottles and other vessels containing non-gaseous liquids."—Dated 7th October, 1858.

2234. JOZÉ LUIS, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A new cutting and stamping press."—A communication from a Foreigner now residing abroad.—Dated 8th October, 1858.

2243. CHARLES WILLIAM LANCASTER, of New Bond Street, in the city of Westminster, Gun Maker, for an invention of "A metal or metallic alloy especially adapted to the manufacture of fire arms and ordnance."—Dated 8th October, 1858.

2252. WILLIAM CROFTS, of Lenton Terrace, Park Side, Nottingham, Manufacturer, for an invention of "Improvements in the manufacture of fabrics by bobbin net or twist lace machinery."—Dated 9th October, 1858.

2301. WILLIAM BACON, of Prestwich, in the county of Lancaster, Engineer, for an invention of "Improvements in the mode of constructing valves, valve cocks, gates, and stop cocks, which may be used in steam engineering, and for other purposes."—A communication from J. R. and H. S. Robinson, of Clinton, in the United States of America.—Dated 15th October, 1858.

2337. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanic's Magazine and Patent Agent,

for an invention of "Improvements in propelling vessels."—A communication from J. C. Meunier, of Paris, residing abroad.—Dated 19th October, 1858.

2398. Thomas Almond, of 22, Pickering Place, Paddington, in the county of Middlesex, Engineer, for an invention of "Improvements in furnaces for the better combustion of smoke."—Dated 27th October, 1858.

333. Robert Tinkler, of Penrith, in the county of Cumberland, Churn Manufacturer, for an invention of "Improvements in churns."—Dated 5th February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 2nd April, 1859, inclusive.*)

1st April.

801. James Samuel, of Great George Street, in the city of Westminster, Civil Engineer, and John Nicholson, of Bow, in the county of Middlesex, Engineer, for an invention of "Improvements in steam and other vapour engines."—Dated 2nd April, 1856.

818. Charles William Ramié, of 73, Denbigh Street, Pimlico, in the county of Middlesex, for an invention of "Improvements in constructing the permanent ways of railways."—Dated 4th April, 1856.

833. Frederick George Underhay, of 13, Wells-Street, Gray's Inn Road, in the county of Middlesex, for an invention of "Improvements in apparatus for drawing off water."—Dated 5th April, 1856.

2nd April.

820. Joseph Gilbert Martien, of Newark, New Jersey, in the United States of America, but now residing at 32, Essex Street, Strand, London, for an invention of "Improvements in the manufacture of iron."—Dated 4th April, 1856.

827. Julian Bernard, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for an invention of "Improvements in machinery or apparatus employed for manufacturing or making boots and shoes or other coverings for the feet."—Dated 5th April, 1856.

838. John Leigh, of the city of Manchester, in the county of Lancaster, Surgeon, for an invention of "The use or application of a certain substance or substances in the sizing, stiffening, or otherwise preparing cotton, linen, or other yarns and woven fabrics."—Dated 7th April, 1856.

915. Henry Young Darracott Scott, of Brompton Barracks, Chatham, in the county of Kent, Captain in the Royal Engineers, for an invention of "An improved mode of manufacturing cement."—Dated 17th April, 1856.

989. Frank William Blacket, of West Smithfield, in the city of London, Draper, for an invention of "An improvement in the construction of keys and locks, and in the fitting of locks to afford increased safety."—Dated 24th April, 1856.

Errata in Journal of 1st April.

681. For "county of Southwark" read "county of Surrey."

731. For "apparatus" read "apparatuses."

780. For "materials" read "material."

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 15th March, 1859, and each bearing that date.

No. 23,223. Geo. E. Baldwin, of West Meriden, Conn., for an "Improvement in adjustable wormer for ramrods."

"Having thus fully described the nature and object of my invention, what I claim as a new article of manufacture, is, a wormer that can be run out of or into a ferule on the end of a ramrod, so that the ramrod can be practically shortened or lengthened at pleasure, as herein represented."

No. 23,224. Joseph Barber and P. C. Reinfried, of Bridesburgh, Pa., for an "Improvement in breech-loading fire-arms."

"What we claim as our invention, and desire to secure by Letters Patent, is, the arrangement and combination of the spring trigger guard E, pin (*g*), toggles (*k*, *k*), sliding bolt (*j*), and catch (*c*), substantially as and for the purpose herein shown and described."

No. 23,225. Zebulon B. Bellows, of Cortlandville, N. Y., for "Improved chair bottoms."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application to chairs of a bent, stamped, or pressed board for a seat."

No. 23,226. Paul Boynton, of Canton, N. Y., for an "Improvement in magazine fire-arm."

"I do not claim, broadly, the arrangement of a powder magazine in the breech of a gun or of a ball-magazine under and parallel with the barrel, nor yet the use of the slide H to load the bullets; but what I claim as my invention, and desire to secure by Letters Patent, is,—1st, combining the powder magazine in the stock with the barrel of a fire-arm by means of the faucet-like chambered breech, applied and operating as described, to measure its own charge. 2nd, combining the bullet-loading slide H with the faucet-like chambered breech by means of the ears on the slide and the horns *m*, *n*, attached to the breech that the slide may be operated in combination with the breech, in the manner herein specified. 3rd, the combination with the faucet-like breech of the priming box J and its perforated collar *q*, operated by a connection with the hammer, substantially as herein described."

No. 23,227. Geo. A. Brown, of Newfane, N. Y., for an "Improved machine for bending wood for felloes."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the platform E, screws *d* and *i*, and spring *c*, with the mould block D, the several parts being constructed and operating substantially in the manner and for the purpose specified."

No. 23,228. Saml. S. Campbell, of Montreal, Canada, for an "Improved machine for grinding and polishing saws."

"What I claim as my invention, and desire to secure by Letters Patent, is, the specified arrangement of the longi-

tudinal carriage ways D on supports E, G, so that they with the carriage D¹ and all attachments, may be inclined laterally and caused to stand obliquely to the horizon or the circumference of the lap or grinding stone, for the purposes set forth. 2nd, arranging one of the supports of the machine on a pivot *e* and the other on a truck H which reciprocates on a circular railway, so that the carriage ways and carriage, with all attachments thereof, may be adjusted in the path of a circle, so as to stand oblique to the shaft of the lap or grindstone, substantially as and for the purposes set forth. 3rd, providing the longitudinal reciprocating carriage with a stationary stop K and a capping or holding-down plate L, which is adjustable up and down but stationary longitudinally, substantially as and for the purposes set forth."

No. 23,229. I. L. Colman, of Vincennes, Ind., for an "Improved apparatus for regulating the supply of water to steam boilers."

"I do not claim the float in boiler cranks, levers, water chest, valve, or detector; but I do claim the combined arrangement of these to effect the object desired, to regulate the water in a steam boiler to any desired point from which it cannot materially change."

No. 23,230. Saml. Colt, of Hartford, Conn., for an "Improvement in packing cartridges."

"I do not wish to limit my invention to the use of the string, though I have shown it and found it to work well in practice, for a wire or other equivalent might be made to answer the purpose; neither do I confine myself to the exact arrangement shown of the string, or its equivalent, in the package; but claim as my invention, and desire to secure by Letters Patent, the application of a string, wire, or other equivalent, to a cartridge package, or box, by which the package or box may be opened."

No. 23,231. Alexr. Dean, of Jerusalem, N. Y., for an "Improvement in grinding apples."

"Having thus fully described my machine, what I claim as my invention, and desire to secure by Letters Patent, is, 1st claim, the crushing lever H, and horizontal wheel I, constructed as described, and for the purpose set forth. 2d claim, I claim the eccentric wheel B and carriage D in combination with the crusher H and wheel I, when constructed and operated in the manner and for the purpose herein-before described."

No. 23,232. Abram Dehuff, of York, Pa., for an "Improvement in preventing collisions on railroads."

"I am aware that the shoe or boot running under the wheel is not new, it has been made by others, and I do not claim it; but what I claim as my invention, and desire to secure by Letters Patent, is, the spring carrier A, hung on two inclined staples B, B, beneath the car or truck to hug or embrace the wheels, cross bar C, long bar E, lever F, rod G, lever H, rod I, levers I, I, and lever K, when arranged for joint operation with each other, substantially as and for the purpose herein described."

No. 23,233. Saml. F. Dexter, of Paris, N. Y., for an "Improvement in hanging well buckets."

"What I claim as new, and desire to secure by Letters Patent, is, first, I claim the iron strap C, with the levers D, and notch E, to receive the spring stretcher E¹, in combination with the chain B, Fig. 1, and the manner of detaching the same by coming in contact with the rod J. 2d, I claim the springs G, G, Fig. 3, and G, Fig. 4, when operated as described. 3d, I claim hanging the buckets at or below the bottom, as described, in combination with the spring or springs, and levers, as above described, or in any equivalent manner."

No. 23,234. Randolph D. M. Edwards, of Franklin, Mich., for an "Improvement in machines for folding wool."

"I do not claim to be the original inventor of machines for folding wool; but what I claim as my improvement, and desire to secure by Letters Patent, is, the above-described machine for folding wool, consisting of the table rim D, the folding lids Q, R, S, T, operated by katches, levers, and springs riser H, and platform Z, the whole arranged, constructed, and operating substantially as and for the purposes set forth."

No. 23,235. Stephen Elliott, of Washington, Ind., for an "Improvement in corn planters."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the wheel F and pins L and K, the spiral springs C, C, the boxes A, A, blocks B, B, the rod E, indicator G, and leveling plow H, the whole being arranged, constructed, and operated as above described, and for the purpose set forth."

No. 23,236. Wm. H. Elliott, of Plattsburgh, N. Y., for an "Improved mode of obtaining curved printing surfaces."

"I do not claim casting stereotypes, by immersion, in moulds, formed upon and adhering to metallic plates, nor do I claim a compound flexible matrix, for casting curved stereotypes, as that is the subject of an English Patent, granted to Brunel in 1829; but what I have invented, and wish to have secured to me by Letters Patent, is, first, the combination of screws *k*, with the concave cylindrical form *a*, when these devices are used for bringing the compound flexible matrix or impression sheet to the required shape, or for holding it there, while metal is being deposited or cast upon it, for the purpose of constructing electrotypes or stereotypes, as specified. Second, the employment of bars *d*, in combination with the flexible sheet *c*, for holding the matrix in a cylindrical form, when said bars are so applied to the ends of said sheet that they shall prevent its being displaced, or springing up from the concave face of the outer shell *a*, as set forth, whether said bars are attached to or rest against the edge of said sheet. Third, the grooves *m*, *m*, in the inner shell *b*, for casting upon the back of cylindrical type plates, lugs, or flanges, by which said plates may be fastened upon a cylinder, as and for the purpose set forth."

No. 23,237. Ralph Emerson, jr., of Rockford, Ill., for an "Improvement in sugar mills."

"What I claim as my invention is, the combination of parts in the machine in such manner as to subject the cane, first, to a lighter pressure, and afterwards to a heavier pressure, and to deliver the respective juices expressed by said lighter and heavier pressures into separate receptacles, for the purpose specified. I also claim the combination of the gauge fillets with the pressure rolls, whereby any unskilled operator is enabled to adjust and work the machine, substantially as herein set forth."

No. 23,238. Ralph Emerson, jr., of Rockford, Ill., for an "Improvement in process for extracting and assorting vegetable juices by pressure."

"As I have procured a separate Patent for the said mill I refer to that Patent for a more full description of it. In this Patent I do not mean to limit myself to any special means for the extraction and separation of the pith and rind juices; but what I here claim as my invention is, first, the process of expressing and collecting the juice of the pith, separately from that of the rind, for the purpose set forth. I also claim as one of the methods (and the best to me known), whereby the process of extracting the juices separately may be beneficially carried into effect, the subjection of the cane to a light pressure, to express the juice of the pith, previously to the employment of a heavier pressure, to express the juice of the rind, whether the said pressures be successively performed in the same or in different machines."

No. 23,239. Henry Epstein, of New York, N.Y., for an "Improvement in watch chains, &c."

"What I claim as new, and desire to secure by Letters Patent, is, constructing a watch chain which may be made stiff, or inflexible, at pleasure, by the turning of part of the tubular casing, to which an interior chain is attached, substantially in the manner and for the purpose as described."

No. 23,240. Benaiah Fitts, of Worcester, Mass., for an "Improved method of operating feed rollers for planing machines."

"Having thus fully described the construction and operation of my machine, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the gears H and I, in combination with the eccentric S, when constructed, and operating in the manner and for the purposes set forth."

No. 23,241. G. W. B. Gedney, of New York, N.Y., for an "Improvement in self-priming fire-arm."

"Having thus fully described my improvement in apparatus for priming fire-arms, what I claim therein as new is, the pivoted chamber or magazine within a recess in the hammer head, substantially as herein set forth, and operated by a link pivoted to the lock plate or some other stationary part of the pistol or other arm. I also claim cutting off the priming at the edge of the hammer face, as specified, and carrying the same into the proper position for exploding upon the nipple or cone, as described."

No. 23,242. Elias B. Gleason, of Boston, Mass., for a "Combined letter and envelope."

"What I claim is, the combination therewith (that is, the letter sheet of the envelope B, composed of the superscription and post mark portion *d* and the single flap *e*, or the same and the two flaps *c* and *f*, arranged together and with respect to the letter or billet portion A, substantially as described."

No. 23,243. Wm. H. Glasgow, of New York, N. Y., for an "Improvement in barrel packer."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the rotary cam C, with barrel J attached, in connection with the vibrating hammer H, arranged to operate as described. 2nd, the plate E, having a rotary and a vertical reciprocating movement, for the purpose specified; and, 3rd, the cam C, plate E, and hammer H, arranged for joint operation, substantially as and for the purpose set forth."

No. 23,244. Jacob Guhmann, of Rochester, N.Y., for an "Improved apparatus for heating and purifying the feed-water of steam boilers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the bent syphon shaped tube D, constructed as described, having the induction and eduction openings at the highest parts thereof, with low receiving portion D^1, whereby the water is made to pass a considerable space of vertical pipe, the more effectually to deposit its impurities in D^1, both while descending and ascending, together with the waste cock G and conjoint cocks I, H, lever K, and connecting rods and cranks, as described, for simultaneously opening and closing the same, the whole constructed and operating substantially as and for the purposes herein set forth."

No. 23,245. Horatio Guild and Luther Hall, of Boston, Mass., for an "Improvement in machines for dressing heels of boots and shoes."

"What we claim is, the combination of the adjustable hub jaws and pattern thereof, with their curved supporting rack, and the self-adjusting knife or knife frame applied together, and to a bed or table, or the equivalent thereof, and made to operate substantially as herein-before specified."

No. 23,246. Albert W. Hale, of New Britain, Conn., for an "Improved meat mincer."

"What I claim as my invention, and desire to secure by Letters Patent, is, a cutting or mincing machine operating by means of a cylinder or cylinders, having tapering grooves extending from end to end, in combination with and revolving in fluted or ribbed cases A and B, and acting against a stationary knife or knives placed in a plane parallel with the axes of the cylinders, the whole arranged substantially as and for the purposes set forth."

No. 23,247. Enoch Hidden, of New York, N.Y., for an "Improved ships' lights."

"What I claim, and desire to secure Letters Patent, is, 1st, the swivel wrench of the button, and supporting the shaft or spindle thereof by the brace piece *o* above the frame, substantially as and for the purpose set forth. 2nd, the inclined surfaced button as described, with swivel wrench in combination with the slotted lug of the main frame as set forth. 3rd, in combination with the aforesaid construction, the attachment of the light frame *b* to the main frame *a*, by means of the hook and pin as before described."

No. 23,248. John Hobrecker, of Quincy, Ill., for an "Improvement in compositions for roofing."

"I do not confine myself to the precise proportions above named; what I claim as my invention, and desire to secure by Letters Patent, is, the process above described of preparing plastic material of the composition stated, without the aid of external heat, for the purposes set forth."

No. 23,249. P. C. Ingersoll, of Green Point, N. Y., for an "Improvement in hoop lock for securing the ends of metallic bands."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the loop A and key B, fitted together and applied to the hoop, substantially as and for the purpose set forth."

No. 23,250. H. C. Ingraham, of Guilford, and H. S. Ingraham, of Granger, O., for an "Improved rotary planing machine."

"What we claim as our invention, and desire to secure by Letters Patent, is, the arrangement of the cylinder F, with the two upper feed rollers and the matching burs, in combination with the vertical sliding frame I, for the purpose of preserving the same thickness of timber between the face of the board and the tongue and groove, as set forth. We further claim the sliding gripe V, in combination with the ways W, W^1, lever X, and ratchet X^1, all arranged and operating in the manner and for the purpose set forth."

No. 23,251. Douglas B. Jordan, of Woonsocket, R. I., for an "Improvement in mode of oiling journals."

"I do not claim the invention of the hanger B, or the dripper D, or the girder A; what I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the shafts C and 2, the dish G, the sliding valve H, and the spout marked 6, constructed and operating substantially as and for the purpose described."

No. 23,252. James Keniston, of Cincinnati, O., for an "Improved spark extinguisher."

"What I claim as my invention, and desire to secure by Letters Patent, is, a tank arranged beneath the boilers of furnaces in such manner as to receive the sparks and cinders therefrom, and extinguish and discharge them by means of a current of water passing through the tank, substantially as described for the purposes set forth."

No. 23,253. W. M. Kimball and K. Hartmann, of Cleveland, Ohio, for an "Improvement in lanterns."

"What we claim as our invention, and desire to secure by Letters Patent, is, the segmets D and E, the spring G, and arm H, or their mechanical equivalents, in combination with the hooks L and L^1, arranged and operating in the manner and for the purpose specified."

No. 23,254. Wm. S. Kirkham, of Brandford, Conn., for an "Improvement in locks and latches."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the nosing D, provided with the double-inclined flanch E, with the bolt or latch C, having its outer end rounded and beveled in a vertical plane to operate in and for the purpose set forth."

No. 23,255. John C. Kuhn, of Boonville, Ark., for an "Improvement in peach-cutting and stoning apparatus."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the knives E, E, curved and crossing each other, as shown, and attached to the elastic bars D, D, in combination with the lever F, provided with the pin *i*. I further claim the above parts when placed on the box A, provided with a tube B, and the several parts arranged relatively with each other, so that the stones H will be separated frem the pulp or flesh, substantially as described."

No. 23,256. Shields Liggett, of Staunton, Va., for an "Improvement in railroad gates."

"I do not claim the movement produced by the action of cars upon projecting levers, as such movement has been heretofore produced; but what I do claim, and desire to secure by Letters Patent, is, the opposite sliding sectional gate in combination with the levers F, F^1, rods *g*, g^1, and *h*, h^1, levers G, G^1, sliding bars I, I^1, and springs *i*, i^1, arranged and operating as set forth."

No. 23,257. Wm. Loyd, of Philadelphia, Pa., for an "Improvement in stereoscopes."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent, is, a stereoscopic instrument, having eye glasses at opposite sides, and double reflectors in combination with a revolving picture holder, arranged substantially as described. I also claim the grooves *e*, *e*, on opposite sides of the frames *b*, for the purpose of holding two pictures in contact with each frame, as specified."

No. 23,258. Willis E. Moore, of Crawfordsville, Ind., for an "Improvement in loading ordnance."

"What I claim as my invention, and desire to secure by Letters Patent is, 1st, the combination with a cannon or other piece of ordnance of a system of mechanism which will receive the charge, carry it opposite the bore of the cannon, force the same up to the breech of the cannon, and then be capable of being moved out of line with the bore of the same, substantially as and for the purposes set forth. 2nd, combining with the above system of mechanism a needle for

pricking the cartridge after it has been forced up to the breech, said needle coming into action simultaneously with the retreat out of line with the bore of the cannon of the mechanism employed for introducing the charge, and then retreated out of the way, ready for the application and explosion of the cap, substantially as and for the purposes set forth. 3rd, the combination of a cap charger and exploding hammer with the first and second systems of mechanism above claimed, whereby simultaneously with the retreat of the needle a cap is brought over the touch-hole and exploded, substantially as and for the purposes set forth. 4th, a cartridge box, which has a yielding spring stop, in combination with the first system of mechanism above mentioned, substantially as and for the purposes set forth."

No. 23,259. Willis E. Moore, of Crawfordsville, Ind., for an "Improvement in car brakes."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, making the windlass chain shaft in two parts F, K, and uniting said parts by a universal joint L, and arranging the main friction roller J on one section of the shaft F, K, and the windlass drum on the other, substantially as and for the purposes set forth. 2nd, the employment of an auxiliary friction roller O, in combination with the main roller J, and locomotive driving wheel B, when said auxiliary roller O is arranged to rise between the main friction roller J, and the locomotive wheel B, through the peculiar scale beam or weighing arrangement G, G^1, N, *i*, *s*, k^1, *d*, *e*, F, substantially as and for the purposes forth. 3rd, the employment of a pivoted pawl H, in combination with a ratchet drum G^2, having two circles of reverse set teeth *f*, f^1, which incline on their deepest faces toward the center of the drum, substantially as and for the purposes set forth."

No. 23,260. Geo. W. Morgan, of Prattsburgh, N. Y., for an "Improvement in mode of applying springs as a motive power."

"I do not claim the use of wheels and pinions, operated by springs, nor two or more springs on one shaft, nor the duplication of wheels, nor the application of springs on both sides of the motor wheels, for all these are known devices; but what I do claim as my invention, is, the arrangement of the springs B, B, &c., wheels D, D, &c., with lugs *a*, *a*, *a*, pinions E, E, &c., concentrating the power on the pinions H, H, on each side of the wheel I, and the pinions, N, N, and shafts R, R, for winding up at the same time all the springs on either side of the wheel I, when the whole are constructed and operated for joint action as described."

No. 23,261. David S. Neal, of Lynn, Mass., for an "Improved speaking tube for ships."

"Having fully described my invention, I wish it distinctly understood that I do not claim inventing a tube, or an iron, copper, or brass-bound keg; but what I claim and desire to secure by Letters Patent, is, the arrangement of the speaking tube with a cask, or equivalent float, substantially as and for the purpose specified."

No. 23,262. John G. Perry, of Kingston, R.I., for an "Improved meat cutter."

"Having described my machine, what I claim as my invention, and desire to secure by Letters Patent, is, first, I claim placing the knives on or across the shaft, and holding them by their ends to prevent them from turning, substantially as described. Second, I claim the manner of constructing the shaft and stud plates, substantially as and for the purpose herein set forth."

No. 23,263. Henry W. Putnam, of Cleveland, Ohio, for an "Improvement in bottle stopper fastenings."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the bottle stopper fastening, formed of two pieces of wire, the same being united by means of the points B, B, passing through the loops E, E, constructed and having the wire (A) adapted to them as herein described, thus forming a hinge, and securing the same to the neck of the bottle by looping together the ends of the wire D, the several parts being constructed in the manner and operating as herein set forth."

No. 23,264. E. L. Roberts, of Brooklyn, N. Y., for an "Improved fastening for folding-doors."

"I do not claim broadly the employment or use of sliding bolts D, D, attached to a knob spindle, so that they may be moved in and out from a door by turning the same, for such device is quite old and in common use; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the combination of the sliding bolts D, D, and H, applied to folding-doors, to operate substantially as and for the purpose set forth."

No. 23,265. Geo. W. Robinson, of Boston, Mass., for an "Improved steering apparatus."

"What I claim as my invention, and desire to secure by Letters Patent, is, the segment M, having teeth on the interior vertical face of the curve, in combination with the gears D, E, and F, and shaft G, connected with the tiller and moving therewith, and arranged and operating in the manner substantially as above set forth."

No. 23,266. Archelaus S. Rollins, of Albany, N. Y., for an "Improvement in preparing hop liquor for brewers."

"I claim as new, and of my invention, and desire to secure by Letters Patent, the preparation of hop liquor, for the purposes of distilling and brewing, by the process set forth."

No. 23,267. P. H. Roots, of Connersville, Ind., for an "Improved water wheel."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the wheel A, and rotating breast or abutment E, moving with different degrees of velocity, in combination with the apron or concave D, the whole being arranged to operate as and for the purpose set forth."

No. 23,268. James L. Rowley, of Angola, Ind., for an "Improved washing machine."

"Having thus fully described my improved washing machine, what I claim as new, and desire to secure by Letters Patent, is, I claim constructing the bottom of the box with three sides of an octagon, the two outer sides to have ribs of an octagonal shape, set at an angle of 45° with the sides of the box, and the bottom to be horizontal, with two rows of rubbing pins or knuckles set alternately with the valleys between the ribs D, D, in combination with the vibrating rubber, having the rubbing surface octagonal, and the rubbing knuckles set so as to work alternately with the spaces between the pins in the bottom of the box, and diagonally with the ribs on outer sides of the bottom B, B, in the manner and for the purposes set forth."

No. 23,269. James E. Russell, of Brooklyn, N.Y., for an "Improvement in cast-iron rails for railways."

"Having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a cast-iron railroad rail, having its neck vertically corrugated as herein shown and described."

No. 23,270. James Smart, of Mansfield, Ohio, for an "Improvement in apparatus for evaporating sugar juices."

"What I claim as my invention, and desire to secure by Letters Patent, is, in the construction of pans, 1st, the combination the inclined bottom A with the inclined zigzag partition C, D, substantially as and for the purposes set forth. 2nd, the combination of two pans B, B^1, and two of flame chambers G, G^1, of the peculiar construction described, substantially as and for the purposes set forth. 3rd, supporting the pans at or near the centre of their length by pivots *a*, *a*, and at their ends by spiral springs *b*, *b*, substantially as and for the purposes set forth."

No. 23,271. Stephen Wm. Smith, of Brooklyn, N. Y., for an "Improvement in machines for freezing cream, &c."

"I claim, first, as my invention, the cylinders D, E, in combination with the scrapers H, H, and reservoir K, constructed in the manner substantially as described, and for the purpose specified. Second, combining with the cylinders a perforated distributing reservoir for the purpose of furnishing the material in the desired quantities to the cylinders, and operating in the manner substantially as set forth."

No. 23,272. Heinrich Soltmann, of New York, N. Y., for an "Improved electro-magnetic medical apparatus."

"I do not claim the vibrating armature, neither do I claim the glass cylinder in itself as a regulator of electrical currents; but what I claim, and desire to secure by Letters Patent, is, the arrangement of the vibrating spring armature and the connections therefrom, in combination with the key S, arranged and acting as specified, to throw the shock off the person or repeat the same, as set forth. I also claim the regulating cylinder *t*, constructed as specified, in combination with the medical electrical machine, fitted and acting in the manner and for the purposes set forth."

No. 23,273. Frederick Stamm, of Lampter, Pa., for an "Improvement in lever jacks."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the lever and link rod, hinged together with the block and link seats, as herein described, and for the purposes set forth."

No. 23,274. Geo. Starkweather, of Hartford, Conn., for an "Improved rotary stave machine."

"1st, what I claim, therefore, and desire to secure by Letters Patent, is, the horizontal revolving cutting rims D, C, for dressing staves on the two opposite sides at the same time, arranged and operating substantially as described. 2d, the arrangement of one or more feed boxes *x* upon the plate *u*, over the cutters G, with the feeder produced from the worm *a*, for the purpose described."

No. 23,275. Daniel E. Teal, of Norwich, N. Y., for an "Improvement in devices for raising water."

"Having thus set out my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of means herein recited, the same consisting of the rope or chains, the hooks (K), bail (F), of the cast-iron box, adjustable flanges, collars on the windlass, and the windlass, whereby the bucket can be lowered, filled with water, raised, and emptied, by merely turning the windlass, as described."

No. 23,276. Geo. W. Tolhurst, of Liverpool, Ohio, for an "Improved washing machine."

"Having described my improved washing machine, what I claim as new, and desire to secure by Letters Patent, is, the shaft F, blocks H, H, and wedges G, G, or their equivalents, in combination with the oscillating rubber C, slatted bottom B, dirt chamber A^1, and box A, the whole being arranged and operating in the manner and for the purpose as set forth."

No. 23,277. Wm. Thomas, of Benton County, Arkansas, for an "Improvement in sail wagon."

"I do not claim the application of sails and steering apparatus to vehicles for transportation by land; neither do I claim the splayed spokes and suspension rods used in the strengthening of the wheel; they are well known; but I claim, first, the combination of the spars and cargo box on the rocking shaft *a*, thus lowering the center of gravity and increasing the stability of the fabric, not only in this way, but by also and as another effect thereof, allowing the sails to yield to violent gusts of thwart wind, receiving their force gradually, and spilling it more and more, as they decline. Second, I claim the invention of the hollow wheel hub, which I have called the barrel-hub, to be used for purposes of freight, thereby relieving the axle, avoiding friction, and adding to the power of the vehicle to stand up safely against strong cross winds, the various parts being arranged in the manner and for the purposes substantially as set forth and described."

No. 23,278. Wm. R. Thomas, of Catasauqua, Pa., for an "Improvement in locomotive fire-boxes."

"I do not claim, broadly, the employment of a movable lining in a fire-box, but what I claim as my invention, and desire to secure by Letters Patent, is, the removable lining B fitting within the shell and under the permanent water spaces *a*, *a*, of the fire box, having inwardly projecting inclined sides, and combined with the water spaces of the boiler, by means of two rows of vertical tubes *c*, *c*, entering the crown sheet, and a pipe *e* connecting with the body of the boiler, all substantially as herein described."

No. 23,279. Philip Umholtz, of Tremont, Pa., for an "Improvement in R. R. car journal boxes."

"What I claim, and desire to secure by Letters Patent, is, the spring yoke bolt *c* in combination with the follower *b* and packing *g*, operating in mortise D of box A, in the manner described and for the purposes set forth."

No. 23,280. James S. Upton, of Battle Creek, Mich., for an "Improvement in horse power."

"I do not claim as my invention any mere arrangement of external with internal gear to produce accelerated motion, by wheels toothed merely on one side or face, as such combinations are seen every day in endless variety; but what I do claim as my invention and desire to secure by Letters Patent, is, the arrangement of the driving wheel G, with the pinions E, E, E, and wheels F, F, F, in combination with the annular wheel O, with toothed gear on its internal edge and on one of its faces, for the purpose and in the manner substantially as herein described and set forth."

No. 23,281. Chapman Warner, of New York, N. Y., for an "Improvement in clasps for the ends of bands of iron."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of a clasp of any material or dimensions, substantially of the form described, and illustrated by the accompanying drawings, with two wedged shaped projecting tongues placed in the position, fitted with sleeves, and protected by sides, as above-mentioned."

No. 23,282. Noah H. Wentworth and Martin L. Ames, of Somersworth, N.H., for an "Improvement in R. R. car coupling."

"Having thus set out our invention, what we claim as new and desire to secure by Letters Patent, is, combining with each latch or catch a lever, as herein described, and providing the latch and lever, when thus combined with the cams and their shafts, and crank arms for actuating them, as and for the purposes set forth."

No. 23,283. Wm. K. Wyckoff, of Ripon, Wis., for an "Improved bread making table."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangment of the flour chest A, the table or moulding board B, the mixing tray C, and the closet D, substantially as described and for the purpose specified."

No. 23,284. C. T. E. Blaich and Peter A. Bishop, of Elyria, Ohio, assignors to Peter A. Bishop, aforesaid, for an "Improved steering wheel."

"What we claim as our invention, and desire to secure by Letters Patent, is, the vertically sliding dog being secured in suitable brackets, and provided with a foot piece, pawl, and joint, as described, in combination with the spiral spring and ratchet, the whole being described and operated as set forth."

No. 23,285. Edwd. S. Boynton, of New York, N. Y., assignor to Peter R. Roach, of Elizabeth City, N. J., for an "Improvement in sewing machines."

"Having now described my invention, I will proceed to set forth what I claim, and desire to secure by Letters Patent of the United States, what I claim is, the use of the adjustable fulcra for controlling the feed of the needle, in combination with an annular or ring-shaped shanked wire needle as attached directly to the crank shaft without the intervention of a needle bar, substantially as herein-before set forth."

No. 23,286. Addison Crosby, of Fredonia, N. Y., assignor to H. S. Stephens, of said Fredonia, for an "Improved method of hanging reciprocating saws."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the two jaws or plates B, B^1, applied to the saw A connected together and suspended within the swinging or pivoted adjustable frame C which is attached to the plates *g*, *g*, the whole being arranged as and for the purpose set forth."

No. 23,287. Thos. E. Hunt, of Indianapolis, Ind., assignor to himself and Nathan T. Hunt, of said Indianapolis, for an "Improvement in sugar mills."

"What I claim, and desire to secure by Letters Patent, is, first, the combination and arrangement of the frame B, rollers C, C, C, C, and gearing E, E, E, E, with the cone D, gearing F, bolt G, and spring J, when constructed and operated substantially as and for the purposes set forth. Second, the trough N with aperture O, when constructed as and for the purposes set forth."

Re-issues.

William Gardner, of New York, N. Y., for an "Improvement in machinery for preparing oval picture frames."—Patented 17th August, 1858.—Re-issued 15th March, 1859.

"I claim as a means of preparing oval picture frames, and desire to secure by Letters Patent, a lathe with a face plate revolving in an oval path in combination with a scraper adapted to the form of the desired molding of the oval frame

when the said scraper is so arranged as to be self-adjusting laterally with the said molding, substantially as and for the purpose herein set forth."

WILLIAM A. KIRBY, of Buffalo, N. Y., for an "Improvement in harvesting machines."— Patented 2nd September, 1856.— Re-issued 15th March, 1859.

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, first, the combination of the single plate H and main wheel, substantially as described. I also claim the combination of the main wheel K, single plate H, and rim L, when connected together and operating in the manner and for the purpose set forth. I also claim placing the vibrating wheel on the outside of the frame, or so that the outside of the frame does not bear on the outside of the wheel, in combination with the triangular-shaped frame on the inside of the wheel, substantially as described. I also claim hanging the seat to the plate H and to the standard S, in the manner and for the purpose set forth. I also claim a hinged lever seat and outside stirrup or supporter in combination with a wheel having no outside frame or support, substantially as herein represented."

ROBERT MARCHER, of Cornwall, N. Y., for an "Improvement in machinery for enameling mouldings, &c."—Patented 21st October, 1858.—Re-issued 15th March, 1859.

"What I claim as my invention, and desire to secure by Letters Patent in coating or enameling the surface of mouldings is, the employment of a plate whose lower edge is formed the reverse of the transverse form of the moulding to which it is applied, when such plate is made self-adapting to the surface of the moulding during the longitudinal movement, substantially as herein described, and for the purpose set forth. I also claim the employment of a hopper to contain the composition for enameling when the lower edges of the end plates thereof are formed the reverse of the transverse form of the moulding, and the moulding to be enameled is employed as the bottom of such hopper, substantially as described, and for the purpose set forth."

LEWIS SOLOMON, of New York, N. Y., for an "Improved amalgamator."—Patented 7th December, 1858.—Re-issued 15th March, 1859.

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, first, the use of elongated amalgamating chambers (I), when arranged to operate in the manner and for the purposes specified. Second, the arrangement of the amalgamating chambers (I), within a heated chamber (A), for the purposes specified."

THOMAS STUBBLEFIELD, of Columbus, Ga., for an "Improvement in steam gauges."—Patented 18th July, 1854.—Re-issued 15th March, 1859.

"What I claim therein as new, and desire to secure by Letters Patent, is, the combination of a case perforated at both ends with a spring valve, the spring forming the sides of the valve being arranged so as to cut off communications between the perforations in the opposite ends of the case and perform the duty of a manometer spring, as described."

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B. WOODCROFT,
Superintendent of Specifications, &c.

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NUMBERS of VISITORS for the Week ending 2nd April 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
Mar. 28	Monday -	277	711	988—Fine.
„ 29	Tuesday -	233	434	667— „
„ 30	Wednesday	28	18	46— Snowy and dirty.
„ 31	Thursday*	127	—	127—Fine.
April 1	Friday -	109	—	109— „
„ 2	Saturday -	163	—	163— „
	Total -	937	1163	2100

* The Museum closes at 5 o'clock.

Total number of visitors since the period of free daily admission (12th May, 1858) to 2nd April, 1859, —82,338.

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PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.
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THE

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By Authority.

(*Registered for transmission abroad.*)

No. 549. FRIDAY, APRIL 8, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

536. To EDWARD JOSEPH HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, for the invention of "Improvements in preserving animal food, poultry, game, fish, fruit, and other similar substances."—A communication from abroad by Edouard Gorges, of Paris.

On his petition, recorded in the Office of the Commissioners on the 1st day of March, 1859.

634. To JAMES PALMER, of Sutton Coldfield, in the county of Warwick, Edge Tool Maker, for the invention of "A new or improved trap for catching animals, birds, and fishes."

On his petition, recorded in the Office of the Commissioners on the 12th day of March, 1859.

660. To ISAIAH ASH, of No. 17, Great Bridport Street, Blandford Square, in the county of Middlesex, Locksmith, for the invention of "Improvements in the construction of locks and latches."

664. To WILLIAM AVERY, of Birmingham, in the county of Warwick, Engineer, for the invention of "Improvements in machinery for the manufacture of screws."

668. To JAMES CLARK, of Newton Heath, near Manchester, for the invention of "Improvements in the manufacture of fabrics in which compounds containing india rubber are used."

670. And to HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the city of London, for the invention of "Improvements in the manufacture of crank axles."

On their several petitions, recorded in the Offie of the Commissioners on the 16th day of March, 1859.

672. To COLEMAN DEFRIES, of the firm of Jonas Defries and Sons, Houndsditch, for the invention of "Improvements in lamps."

674. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for folding and stitching sheets of paper."—A communication from abroad by Messrs. Sulzberger and Graf, of Fraunfeld, Switzerland.

678. And to ANDREW GEORGE HUTCHINSON, of West Derby, in the county of Lancaster, Builder, for the invention of "Improvements for counteracting damp in buildings."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of March, 1859.

684. To WILLIAM BOWERS TAYLOR, of Ballymena, in the county of Antrim, Ireland, Gentleman, for the invention of "Certain improvements in or applicable to looms for weaving."

690. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "A new or improved metallic alloy."

692. To ALBERT LOUIS THIRION, Pastor, of Asche en Refail, province de Namur, kingdom of Belgium, for the invention of "Improvements in water, wind, steam, and hand mills."

694. And to JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, and JAMES EGLINTON ANDERSON GWYNNE, of Hanover Terrace, Regents Park, both in the county of Middlesex, Gentlemen, for the invention of "Improvements in, or connected with, apparatus for the generation, application, and condensation of steam, part of which apparatus or arrangements is applicable to other purposes."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of March, 1859.

696. To WILLIAM BRUCE GINGELL, of 37, Corn Street, in the city of Bristol, Architect, for the inven-

tion of "Improvements in the form of metal bars used for the stiles, rails, heads, and sills of window sashes, casements, and other lights."

698. To SAMUEL STEIN, of Chapel Place, Poultry, in the city of London, for the invention of "Manufacturing a resinous carton or pasteboard from vegetable matter, an improvement for roofing, ship sheathing, lining walls to prevent dampness, and other uses."—A communication from abroad, by Auguste Marie Chevalier, of Avignon, in France.

702. To JAMES HOWDEN and ALEXANDER MORTON, of Glasgow, in the county of Lanark, North Britain, Engineers, for the invention of "Improvements in apparatus for obtaining and regulating motive power."

704. To WILLIAM and SAMUEL PICKSTONE, of Radcliff Bridge, near Manchester, Cotton Spinners, Manufacturers and Dyers, for the invention of "An improvement in stiffening, sizing, filling, or weighting textile fabrics."

706. And to WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for the invention of "An improved construction of chain harrow."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of March, 1859.

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708. To ARNOULD BAUCQ, Sugar Manufacturer, of Marchiennes, department of the Nord, empire of France, for the invention of "Maintaining graters mechanically."

710. To ROBERT WHITTAKER, of Lennox Mill, in the county of Stirling, North Britain, Millwright, for the invention of "Improvements in the manufacture or construction of metallic rollers or cylinders and mandrills for printing."

712. To JOSEPH ROBERTS, of Staley Bridge, in the county of Chester, Engineer, for the invention of "Improvements in packings for pistons."

714. To JOSEPH BICKERTON, of Oldham, in the county of Lancaster, Machinist, for the invention of "Improvements in opening and securing window sashes."

716. And to WILLIAM WARNE, JOHN AMERICUS FANSHAWE, JAMES ARCHIBALD JAQUES, and THOMAS GALPIN, all of Tottenham, in the county of Middlesex, India-rubber Manufacturers, for the invention of "An improved compound or preparation of materials for, and mode of covering and insulating wires or conductors used for telegraphic or electrical purposes."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of March, 1859.

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718. To GEORGE PIERRE ANTOINE LUTZ, of Rue Ménars, Paris, in the empire of France, Manufacturer, for the invention of "An improvement in veils."

720. To PACIFICO TAGLIACOZZO, of 27, Broad Street Buildings, in the city of London, for the invention of "An improvement in metallic pens."

724. To JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for the invention of "Improvements in springs for railroad cars, and for other purposes."—A communication from abroad by John I. Fields, of Brooklyn, in the state of New York, one of the United States of America.

726. To SAMUEL NEWINGTON, of Ridgway, Ticehurst, in the county of Sussex, M.D., for the invention of "Improvements in apparatus for distributing seeds and manure."

728. To WILLIAM PICKFORD WILKINS, of Ipswich, in the county of Suffold, Engineer, for the invention of "Improvements in the arrangements of valves, and in their application to steam engines."

732. And to JACOBUS TYSSEN, of Rotterdam, in the kingdom of Holland, Mariner, for the invention of "An improved apparatus for indicating the speed of ships and other vessels."

On their several petitions recorded in the Office of the Commissioners on the 22nd day of March, 1859.

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735. To SAMUEL ORAM, of No. 137, Fleet Street, in the city of London, for the invention of "Improvements in pipes or tubes for generating and superheating steam."

736. To WILLIAM ADAMSON, of the Patent Slip, Wellington Quay, Newcastle-on-Tyne, for the invention of "Improvements in apparatus for propelling vessels."

737. To SAMUEL CLARKE, of Albany Street, Regent's Park, in the county of Middlesex, for the invention of "Improvements in the manufacture of candles."

738. To WILLIAM MIDDLESHIP, of Grove Terrace, South Grove, Mile End, in the county of Middlesex, Officer of Her Majesty's Customs, for the invention of "Improvements in propelling vessels."

739. To JOHN EVANS, of Nash Mills, in the parish of King's Langley, in the county of Hertford, Paper Maker, for the invention of "Improvements in the manufacture of paper."

741. To JEAN VANDEN HIELAKKER, of the city of Brussels, in the kingdom of Belgium, Civil Engineer, for the invention of "Improved apparatus for pressing or moulding artificial or patent fuel, fire-bricks, and similar articles."

742. To GEORGE NEAL, Gas Chandelier and Fitting Manufacturer, of Great Charles Street, Birmingham, in the county of Warwick, for the invention of "Certain improvements in apparatus or fittings connected with the burning of gas for regulating and economising its consumption."

743. To WILLIAM DELANY, of Norfolk Street, Strand, in the county of Middlesex, Gentleman, for the invention of "Improvements in ploughs for tilling land."—A communication from abroad, by Lodner D. Phillips, of Chicago, in the United States of America.

744. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for the manufacture of sheet tin."—A communication from abroad, by Monsieur Masson, of Paris, in the empire of France.

745. To Pierre Paul Boll, of Paris, in the French empire, Gentleman, and Hermann Reger, of Cologne, Gentleman, for the invention of "Improvements in steam boiler and other furnaces."—A communication from Antoine Speich, residing at Strasbourg.

746. And to Frederic Tillett, of Banner Street, in the parish of St. Luke's, in the county of Middlesex, Splint Cutter, for the invention of "Improvements in machinery for cutting splints for matches."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of March, 1859.

747. To William Garforth and James Garforth, both of Dukinfield, in the county of Chester, Engineers, for the invention of "A certain improvement in metallic pistons."

748. To William Edward Wiley, of No. 34, Great Hampton, Birmingham, in the county of Warwick, Gold Pen and Pencil Case Manufacturer, for the invention of "Improvements in the manufacture of boxes or cases used for holding needles, pens, matches, pencils, and for other like purposes."

749. To William Edward Wiley, of No. 34, Great Hampton Street, Birmingham, in the county of Warwick, Gold Pen and Pencil Case Manufacture, for the invention of "New or improved instruments to be used in burning and supporting candles."

750. To Frederick Edward Sharp, of No. 3, Gloucester Terrace, Blackheath, in the county of Kent, for the invention of "Improvements in machinery for corking bottles."

751. To Edward Squire Tebbutt, of the firm of W. J. Windram and Co., of Leicester, Elastic Web Manufacturers, for the invention of "Improvements in the manufacture of elastic fabrics."

752. To Charles Sanderson, of Sheffield, in the county of York, Merchant, for the invention of "Improvements in preparing, tempering, and covering, or coating thin strips or sheets of steel."

753. And to William Clark, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "A machine for separating oats from their husks or chaff."—A communication from abroad by Léon Jean Emile Dupont, of Paris.

On their several petitions, recorded in the Office of the Commissioners on the 24th day of March, 1859.

754. To Hugh Rigby, of Salford, in the county of Lancaster, Engineer, for the invention of "Improvements in machinery or apparatus for obtaining motive power, applicable to hoists, and all other purposes to which motive power can be applied."

755. To Charles Cowper, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in telegraphic cables."—A communication from abroad by Robert Jefferson Bingham, of Rue de la Rochefoucauld, Paris, in France.

756. To Richard Baker, of Liverpool, in the county of Lancaster, Watch Maker, for the invention of "Improvements in chronometers, watches, and other time-keepers."

757. To John Henry Johnson, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in fire-arms."—A communication from abroad, by Francis H. Bell, of the city and county of Washington, in the district of Columbia, in the United States of America.

758. To William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in ovens for baking bread, and other substances."—A communication from abroad by Thomas Russell, of New York.

759. To Christopher Hill, of the Chippenham Station, Great Western Railway, for the invention of "Improvements in the permanent way of railways."

760. And to Humphrey Humphreys, the elder, of Buckingham, in the county of Buckingham, Gentleman, for the invention of "An improvement in unhairing hides and skins, and in the manufacture of leather."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of March, 1859.

761. To George Haseltine, Gentleman, of Washington, in the district of Columbia, United States of America, now of No. 37, King Street, in the city of London, for the invention of "Improvements in the manufacture of small metallic chains."—A communication from Edwin H. Perry, of Rhode Island, United States.

763. To Elizabeth Steane, of Manor Rise, Brixton, in the county of Surrey, Widow, for the invention of "An improved means or apparatus for preventing candles dropping or guttering."

765. To Mark Firth, of the firm of Thomas Firth and Sons, of Sheffield, in the county of York, Steel Manufacturers and Merchants, for the invention of "Improvements in machinery for grinding saws and flat plates of steel."—A communication from E. T. Jones, residing in Montreal.

766. To George Naylor, of No. 7, Durnford Street, East Stonehouse, in the county of Devon, a Lieutenant in the Royal Marines Light Infantry, for the invention of "An apparatus for measuring and indicating the distance passed over or travelled by the same."

767. To John Campbell Evans and Peter Soames, of the Morden Iron Works, East Greenwich, in the county of Kent, Engineers, for the invention of "Improvements in apparatus for superheating steam."

768. To Matthew Andrew Muir, of Glasgow, in the county of Lanark, North Britain, Machinist, and James McIlwham, of the same place, Machinist, for the invention of "Improvements in moulding or shaping metals."

769. To Edward Dowling, of Little Queen Street, Holborn, in the county of Middlesex, Scale Maker, for the invention of "Improvements in weights."

770. To Benjamin Smith and Charles Lavers Smith, both of Corbet's Court, Spitalfields, in the county of Middlesex, Manufacturing Chemist, for the invention of "Improvements in the preparation of certain colouring matter, applicable for dyeing and printing."

771. And to JOSEPH BUCKLEY, of Horwick, in the county of Lancaster, Calico Printer, ORLANDO GREENHALGH, of the same place, Manager, and ROBERT HUTCHINSON, of the same place, Mechanic, for the invention of "Improvements in machinery or apparatus for printing woven fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of March, 1859.

772. To CHARLES JAMES RICHARDSON, of No. 34, Kensington Square, and No. 9 A, King Street, Whitehall, both in the county of Middlesex, Architect, for the invention of "Improvements in apparatus to be applied to chimnies or flues of buildings, for preventing downdraught or return smoke, for their insuring upward ventilation, and for reducing the quantity of smoke or the blacks from the smoke passing into the atmosphere."

773. To CHARLES FRÉDERIC VASSEROT, of No. 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved diving apparatus."—A communication from Philippe Bigard, residing in Lyons, in the empire of France.

774. To JAMES BUCKINGHAM, of Westmoreland House, Walworth Common, in the county of Surrey, Civil Engineer, for the invention of "Improvements in machinery or apparatus employed in drawing fibrous substances."

775. To ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved construction of furnace for reheating steel preparatory to the hardening, tempering, or annealing process."—A communication from abroad by Perry Green Gardiner, of New York.

776. To ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for the invention of "Improvements in the manufacture of elastic fabrics."

777. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improved apparatus for retaining the oil or other fluid used for annealing, tempering, and hardening steel at an equable low temperature."—A communication from abroad by Perry Green Gardiner, of New York.

On their several petitions, recorded in the Office of the Commissioners on the 28th day of March, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

814. FREDERIC PHILIPPE AUGUSTE AUBURTIN, of Paris, in the empire of France, at present residing at No. 32, Gerard Street, Islington, in the county of Middlesex, praying for Letters Patent for the invention of "An improved preparation of food for herbivorous animals," was deposited and recorded in the Office of the Commissioners on the 1st day of April, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

8th April, 1859.

2236. EDWARD VILLIERS RIPPINGILLE, of the parish of Chorlton-upon-Medlock, Greenheys, Manchester, Artist, for an invention of "The improvement of fire-arms and artillery."—Dated 8th October, 1858.

2238. JOSEPH MITCHELL, Worsted Spinner, HIRAM MITCHELL, Manager, and THOMAS ENGLAND, Mechanic, all of Bradford, in the county of York, for an invention of "Improvements in means, machinery, or apparatus employed in spinning wool, mohair, alpaca, silk, and other fibrous substances."—Dated 8th October, 1858.

2240. ALFRED NICHOLLS, of Manchester, in the county of Lancaster, Merchant, and THOMAS WALKER, of Birmingham, in the county of Warwick, Clerk, for an invention of "An improved spring hook, catch, or fastening."—Dated 8th October, 1858.

2247. FREDERICK WILLIAM GERHARD, of Tichborne Street, Haymarket, in the county of Middlesex, Mineral Surveyor, for an invention of "Improvements in the manufacture of aluminium and sodium."—Dated 8th October, 1858.

2256. JAMES HOLROYD, of Leeds, in the county of York, Cloth Dresser, for an invention of "An improvement in the knives used for shearing woollen cloths and cloths made of wool and other materials."—Dated 11th October, 1858.

2257. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "Improvements in constructing reflectors."—A communication from Antoine Marie Balencie, residing in Paris, in the empire of France.—Dated 11th October, 1858.

2259. JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the county of Surrey, Engineer, for an invention of "Improvements in locomotive and other steam-engines."—Dated 11th October, 1858.

2260. ROBERT COWEN, the younger, of the town and county of the town of Nottingham, Mechanical Draughtsman, for an invention of "Improvements in dressing lace or other fabrics made of silk, cotton, or other material, and in apparatus employed therein."—Dated 11th October, 1858.

2261. JAMES LAMB HANCOCK and FREDERICK LAMB HANCOCK, both of Pentonville, in the county of Middlesex, Manufacturers, for an invention of "Improvements in implements for tilling, breaking up, or pulverizing land, for sowing seeds, and for thinning out turnips and other crops."—Dated 11th October, 1858.

2266. THOMAS RIDDELL, of Carracou Terrace, Old Ford, Bow, in the county of Middlesex, Gentleman, for an invention of "An improved arrangement for sustaining window sashes and sliding pannels."—Dated 11th October, 1858.

2270. Leonard Wray, of No. 5, Devonshire Street, Portland Place, London, Gentleman, for an invention of "New and improved compounds for the coating or insulating of submarine electric telegraph wires; and which are also applicable to the coating or insulating of electric telegraph wires laid underground."—Dated 12th October, 1858.

87. Lambert Cowell, of Adelphi, in the county of Middlesex, Gentleman, for an invention of "Improvements in apparel affording the means for preserving life at sea, and to prevent accidents to persons casually immersed in water."—Dated 14th October, 1858.

89. Alexander Gordon, Member of the Institution of Civil Engineers in London, and residing at Little Fife House, Whitehall, in the city of Westminster, for an invention of "Improvements for manufacturing cast iron, steel, and wrought iron."—A communication from Antoine Galy Cazalat, of Paris, and residing abroad.—Dated 14th October, 1858.

2294. Henry Martin, of Old Kent Road, in the county of Surrey, and of 8, Scott's Yard, in the city of London, for an invention of "Improvements in separating starch from gluten in apparatus used therein, and also in preparing cement from gluten."—Dated 14th October, 1858.

2312. Joseph Pierre Gillard, of Paris (France), Civil Engineer, for an invention of "Improvements in generating hydrogen, and in the means of and apparatus for applying the same to lighting and heating purposes."—Dated 16th October, 1858.

2335. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the hanging and arranging of cylindrical, conical, or spiral steel railroad springs for railway carriages."—Dated 19th October, 1858.

2369. Rudolph Bodmer, of 2, Thavies Inn, Holborn, in the city of London, for an invention of "An improved toy or plaything for children."—A communication from Charles Thévenot, of Paris, in the empire of France.—Dated 23rd October, 1858.

2377. Francis Fowke, of Park House, South Kensington, in the county of Middlesex, Captain in the Royal Engineers, for an invention of "Improvements in umbrellas and parasols."—Dated 25th October, 1858.

2404. Charles Pooley, of the city of Manchester, Cotton Spinner, for an invention of "Certain improvements in and applicable to carding engines and other machines for preparing cotton and other fibrous materials."—Dated 28th October, 1858.

2533. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved apparatus for securing doors of safes, closets, and apartments."—Dated 11th November, 1858.

2717. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in locomotive engines."—A communication from Foreigners residing abroad.—Dated 29th November, 1858.

2978. Hiram Hutchinson, of the city of Paris, France, for an invention of "Improvements in the manufacture of india-rubber goods."—Dated 29th December, 1858.

2980. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in machinery for reaping and mowing."—Dated 29th December, 1858.

230. Henry Brecknell, of the city of Bristol, Brassfounder, and John Dyer, of the same place, Gentleman, for an invention of "Improvements in cocks and valves."—Dated 25th January, 1859.

355. John Aspinall, of Great Tower Street, in the city of London, Civil Engineer, for an invention of "An improvement in the refining of sugar."—Dated 8th February, 1859.

406. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in breech-loading fire-arms."—A communication from abroad, by James H. Merrill, of the United States of America.—Dated 12th February, 1859.

422. John Thomas Jones, of Glasgow, in the county of Lanark, North Britain, Machinist, for an invention of "Improvements in sewing machines."—Dated 15th February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 6th April*, 1859, *inclusive*.)

4th April.

814. Robert Halliwell, of Bolton-le-Moors, in the county of Lancaster, Manager to Messieurs Benjamin Dobson and Edward Barlow, of the same place, Machine Makers, for an invention of "Certain improvements in the machines for spinning called self-acting mules."—A communication.—Dated 4th April, 1856.

830. Arnold Morton, of Wakefield, in the county of York, for an invention of "Improvements in the manufacture of paints and pigments."—Dated 5th April, 1856.

842. Arnold Morton, of Wakefield, in the county of York, for an invention of "Improvements in the manufacture of paper hangings for decorative purposes."—Dated 7th April, 1856.

852. William Joseph Curtis, of 1, Sebbon Street, Islington, for an invention of "Improvements in lubricating the axles of locomotive engines and of carriages on railways."—Dated 8th April, 1856.

860. George Frederick Morrell, of Fleet Street, in the city of London, for an invention of "Improvements in the manufacture of railway chairs."—Dated 9th April, 1856.

5th April.

874. James Mash, of the city of Manchester, in the county of Lancaster, Engineer, for an invention of "Improvements in the fusible plugs and furnaces of steam-boilers."—Dated 12th April, 1856.

6th April.

843. William Terry, of Birmingham, in the county of Warwick, Gun Maker, for an invention of "Improvements in breech-loading fire-arms."—Dated 7th April, 1856.

LIST of all the APPLICATIONS which have been made to the JUDICIAL COMMITTEE of the PRIVY COUNCIL for the CONFIRMATION or EXTENSION of LETTERS PATENT for INVENTIONS, noting those Cases in which the Confirmation or Extension has been granted.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1835. No. 1	JOSEPH WELLS, of 161, Regent's Street, London, assignee of William Gibbins and Thomas Westrup, original Patentees.	For improvements in an apparatus for converting sea water or otherwise impure water into fresh or pure water. (6117), 24th May, 1831.	Confirmation. *Lodged*, 28th Sept. 1835. *Referred*, 30th Sept. 1835.	Petitioner: Petitioner in person. Opponents: E. Richardson, 2, Adelphi Terrace, on behalf of Winton Harris, of Amelia Place, Brompton.	This petition was returned, and the petitioner was directed to make his application in conformity with the Rules of the 18th Nov. 1835. Second petition received 15th Dec. 1835.—Vide No. 5 of this year.
„ 2	SAMUEL HALL, of Basford, co. Nottingham, Civil Engineer.	For an improved piston and valve for steam, gas, and other engines, and also for an improved method of lubricating the pistons, &c. For England (6204), 22nd December, 1831; Scotland, 25th March, 1833; Ireland, 3rd May, 1832. For an improved method of lubricating pistons, &c. England (6359), 9th January, 1833; Scotland: 25th March, 1833; Ireland, 5th July, 1833. For improvements in steam engines. England (6556), 13th February, 1834; Scotland, 25th, 1834; Ireland, 19th June, 1834.	Prolongation. *Lodged*, 25th Nov. 1835. *Referred*, 4th Dec. 1835.	Petitioner: Archibald R. F. Rosser, New Boswell Court. Opponents: Newton and Berry, Patent Agents, 66, Chancery Lane, 1st Dec. 1835, for Van Wart and Goddard, of Birmingham, 14th Jan. 1836.	Application abandoned.
„ 3	ORPHEUS commonly called PIERRE ERARD, of No. 18, Great Marlborough St., co. Middlesex.	For certain improvements in pianofortes and other keyed musical instruments. For England, (4631), 22nd December, 1821; Ireland, 14th December, 1822; Scotland, 6th April, 1822. For certain improvements in pianofortes. For England, (5065), 5th January, 1825.	Prolongation. *Lodged*, 28th Nov. 1835. *Referred*, 4th Dec. 1835. *Reported*, 15th Dec. 1835. *Approved*, 21st Dec. 1835.	Petitioner: Chas. K. Freshfield, New Bank Buildings.	Granted for 7 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1835. No. 4	Charles Louis Stanislas, Baron Heurteloup, of Holles Street, Cavendish Square.	For improvements of certain parts of certain descriptions of fire-arms. (6611), 22nd May, 1834.	Confirmation. *Lodged*, 15th Dec. 1835. *Referred*, 21st Dec. 1835. *Reported*, 2nd July, 1836. *Approved*, 6th July, 1836.	Petitioner: James Taylor, 15, Furnival's Inn.	Granted.
„ 5	Joseph Wells, of Edgefield House, 11, Albany Road, Camberwell, and 161, Regent Street, London, assignee of William Gibbins and Thomas Westrup, original patentees.	For improvements in an apparatus for converting sea water or otherwise impure water into pure and fresh water. (6117), 24th May, 1831.	Confirmation. *Lodged*, 15th Dec. 1835. *Referred*, 21st Dec. 1835. *Reported*, 5th Mar. 1836. *Approved*, 9th Mar. 1836.	Petitioner: Watson & Son, Bouverie Street. Opponents: Edwd. Richardson, 2, Adelphi Terrace, on behalf of Winton Harris, 31st Dec. 1835.	Refused.
1836. No. 1	Robert Brettell Bate, No. 21, Poultry, in the city of London, Optician.	For improvements of hydrometers and saccharometers. (4659), 21st March, 1822.	Prolongation. *Lodged*, 14th Jan. 1836. *Referred*, 16th Jan. 1836. *Reported*, 5th Mar. 1836. *Approved*, 9th Mar. 1836.	Petitioner: — Carr, 6, Tokenhouse Yard.	Granted for 7 years.
„ 2	Charles Macintosh, of Crossbasket, in the county of Lanark, Esquire.	For manufacturing hemp, cotton, silk, &c., impervious to water and air. For England (4804), 17th June, 1823; Scotland, 6th May, 1823; Ireland, 16th August, 1823.	Prolongation. *Lodged*, 16th Jan. 1836. *Referred*, 16th Jan. 1836.	Petitioner: Blunt and Co. Opponents: 1. Morris and Verbeck, 30, Craven Street, Strand. 2. Thos. Parker, St. Paul's Churchyard. 3. Richards and Walker, 29, Lincoln's Inn Fields. 4. Chas. Thomas, 47, Lothbury. 5. Jas. Taylor, 15, Furnival's Inn. 6. Thos. Wight, 25, Percy Street.	Abandoned, and fresh Petition presented.—Vide No. 1, 1837.
„ 3	Edward Schmidt Swaine, of Leeds, county of York.	For producing and preserving artificial mineral waters. (4851), 9th October, 1823.	Prolongation. *Lodged*, 23rd Feb. 1836. *Referred*, 23rd Feb. 1836. *Reported*, 18th Feb. 1837. *Approved*, 1st Mar. 1837.	Petitioner: Blunt and Co.	Granted for 7 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1836. No. 4.	WILLIAM SOUTHWORTH, and others, of Manchester.	For certain machinery for facilitating the drying of calicoes, muslin, linen, &c. (4780), 19th April, 1823.	Prolongation. *Lodged*, 11th July, 1836. *Referred*, 13th July, 1836. *Reported*, 10th Jan. 1837. *Approved*, 28th Jan. 1837.	Petitioners: Makinson and Saunders, Middle Temple.	Granted for 5 years to party or parties in whom the Letters Patent already obtained are now vested.
„ 5	JAMES TULLOCH, Montagu Place.	For an improvement or improvements in the machinery to be employed for sawing and grooving marble and other stone, or in producing grooves or mouldings thereon. For England (4936), 12th April, 1824; Scotland, 14th July, 1825; Ireland, 7th September, 1825.	Prolongation. *Lodged*, 26th Sept. 1836. *Referred*, 5th Oct. 1836.	Petitioner: A. Rosser, 12, New Boswell Court, Lincoln's Inn.	Letter from petitioner's agent that it is not his intention at present to move for a day for hearing.—28th November, 1836.
1837. No. 1.	CHARLES MACINTOSH, of Crossbasket, county Lanark, Esquire.	For a process and manufacture whereby the texture of hemp, flax, wool, cotton, and silk, and also leather, paper, and other substances may be rendered impervious to water and air. For England (4804), 17th June, 1823; Scotland, 6th May, 1823; Ireland, 16th August, 1823.	Prolongation. *Lodged*, 21st Feb. 1837. *Referred*, 1st March 1837.	Petitioner: Roy, Blunt, and Co. Opponents: Morris and Verbeke, Rickards and Walker, Thos. Wight Wyche, and Howard C. Thomas, 47½, Lothbury.	Petition withdrawn.
„ 2	HENRY SHUTTLEWORTH, of Market Harborough, in the county of Leicester, Gentn., and DANIEL FOOT TAYLER, of the Priory, in the parish of Woodchester, in the county of Glo'ster, Pin Manufacturer. —(Patent originally obtained by Lemuel Wellman Wright.)	For certain combinations of and improvements in machinery for making pins. For England (4955), 15th May, 1824.	Prolongation. *Lodged*, 28th Mar. 1837. *Referred*, 5th April 1837. *Reported*, 4th July 1837. *Approved*, 12th July 1837.	Petitioners: Hy. M. Vane, Carlton Chambers, Regent Street. Opponents: — James, Basinghall Street; Kearsey, Hughes, and Thomas.	Granted for five years to the party or parties in whom the Letters Patent already obtained are now legally vested.
„ 3	LEMUEL WELLMAN WRIGHT.	Improvement in bleaching (5154).	Prolongation. *Lodged*, 24th Aug. 1837. *Referred*, 20th Sept. 1837.	Petitioner: H. Shuckell, Solr., Tokenhouse Yard; Newton and Berry, 66, Chancery Lane.	On the 28th January, 1839, petition lodged by Bower and Back to withdraw this petition (vide No. 1, of 1839); referred 4th February: reported 12th February; approved 13th February, 1839.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1838. No. 1	DANIEL STAFFORD, now of No. 25, St. Martin's-le-Grand, in the parish of St. Leonard, Foster Lane, in the city of London.	For certain improvements on carriages. For England (5063), 1824, 24th December.	Prolongation. *Received*, 24th Feb. 1838. *Referred*, 26th Feb. 1838. *Reported*, 4th July, 1838. *Approved*, 4th July, 1838.	Petitioner: H. Vane, 12, Regent Street, substituted for Wm. Lord.	Granted for 7 years.
,, 2	WILLIAM REVELL VIGERS, THOMAS STARLING BENSON, GEORGE BORRADAILE, FRANCIS SAPTE, WILLIAM READ, WM. HUGHES HUGHES, and CHARLES TERRY, Executors of the Anti Dry-rot Company, on behalf of themselves and of John Howard Kyan, and all other the Shareholders of the said Company.	1. For a new method of preserving vegetable substances from decay. For England (6253), 31st March, 1832; Scotland, 1st August, 1832; Ireland, 5th November, 1832; Colonies, 11th February, 1836. Term 14 years. 2. For an improved mode of preserving paper, canvas, cloth, and cordage for ships and other uses, and the raw materials of hemp, flax, or cotton, from which the same may wholly or in part be made. For England, &c. and the Colonies (6309), 22nd September, 1832. Term 14 years.	Prolongation. *Received*, 3rd April, 1838. *Referred*, 4th April, 1838. *Reported*, 4th July, 1838. *Approved*, 4th July, 1838.	Petitioners: Hall, Thompson, and Sewell, Salter's Hall.	Petition dismissed because the application was premature.
,, 3	JOHN GEORGE BODMER, of Manchester, Civil Engineer.	For certain improvements in the machinery for cleaning, carding, drawing, roving, and spinning of cotton and wool. For Scotland, 18th August, 1824; Ireland, 7th October, 1824; England, &c. (5016), 14th October, 1824.	Prolongation. *Received*, 31st May, 1838. *Referred*, 20th June, 1838. *Reported*, 29th Nov. 1838. *Approved*, 12th Dec. 1848.	Petitioner: Makinson and Saunders, Middle Temple. Opponents: Watkins and Hooper, 11, Sackville Street. (Opposition withdrawn.)	Petition dismissed because the Patents were expired at the time of hearing.
,, 4	JAMES RUSSELL	For gas tubes. (4892), 26th February, 1825, for England; 26th May, 1825, for Scotland; 6th August, 1825, for Ireland.	Prolongation. *Received*, 22nd Oct. 1838. *Referred*, 5th Nov. 1838. *Reported*, 12th Dec. 1838. *Approved*, 4th Feb. 1839.	Petitioner: Messrs. Tooke and Son, Bedford Row.	Granted for 6 years.
,, 5	GEORGE AUGUSTUS KOLLMAN.	For mechanism and construction of pianofortes. (5107), 26th February, 1825.	Prolongation. *Received*, 29th Nov. 1838. *Referred*, 29th Nov. 1838. *Reported*, 1st Feb. 1839. *Approved*, 4th Feb. 1839.	Petitioner: Surman, 11, Lincoln's Inn.	Notice of application for day of hearing, 22nd December, 1838. Granted for 7 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1839. No. 1	LEMUEL WELLMAN WRIGHT.	For certain improvements on machinery or apparatus for washing, bleaching, or cleansing of linens, cottons, or other fabrics, goods, or fibrous substances. For England (5154), 20th April, 1825.	Prolongation. *Lodged*, 8th Jan. 1839. *Referred*, 4th Feb. 1839. *Reported*, 22nd Feb. 1839. *Approved*, 1st Mar. 1839.	Petitioner: Bower and Back.	Former petition (No. 3 of 1837) withdrawn. Notice of Application for hearing on 4th February, 1839. Granted for 7 years.
„ 2	JAMES KAY -	Improved machinery for preparing and spinning flax, hemp, and other fibrous substances. For England (5226), 26th July, 1825; Scotland, 23rd June, 1825; Ireland, 9th December, 1825.	Prolongation. *Lodged*, 12th Jan. 1839. *Referred*, 4th Feb. 1839. *Reported*, 13th June, 1839. *Approved*, 13th June, 1839.	Petitioner: Armstrong. Opponents: Hawkins, Bloxam, and Stocker, 2, New Boswell Court.	Notice of Application, 8th February, 1839. Granted for 3 years.
„ 3	RICHARD ROBERTS, of Manchester, Civil Engineer.	For improvements of the mule Billy Jenny stretching frame, or other machines, however designated, used in spinning cotton, wool, or other fibrous substances, and in which either the spindles recede from or approach to the rollers or other deliverers of the said fibrous substances, or in which such rollers recede from or approach to the spindles. For England (5138), 29th March, 1825; Scotland, 24th February, 1825; Sealed 5th April, 1825; Ireland 1st October, 1825.	Prolongation. *Lodged*, 18th Jan. 1839. *Referred*, 4th Feb. 1839. *Reported*, 22nd Feb. 1839. *Approved*, 1st Mar. 1839.	Petitioner: Bower and Back.	Notice of Application for hearing, 11th February, 1839. Granted for 7 years.
„ 4	BETSEY DOWNTON, of Limehouse, in the county of Middlesex, Widow and Administratrix of Jonathan Downton, formerly of Blackwall, in the same county, and afterwards of Limehouse aforesaid, Shipwright, deceased.	Improvements on waterclosets. For England, &c. (5187), 18th June, 1825.	Prolongation. *Lodged*, 28th Jan. 1839. *Referred*, 4th Feb. 1839. *Reported*, 14th June, 1839. *Approved*, 17th June, 1839.	Petitioner: W. H. Cotterill, 32, Throgmorton Street. Opponents: J. Rice, 77, Cornhill.	Notice of application for hearing, 25th February, 1839. Granted for 5 years, with costs of defending against opposition.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1839. No. 5	JOHN GEORGE BODMER.	Vide Supra, No. 3, of 1838, (5016).	To fix a day for hearing under the 2 & 3 Vict. c. 67, notwithstanding the expiration of of the Patent. *Lodged*, 29th Oct. 1839. *Referred*, Addressed to Judicial Committee. *Reported*, 5th Dec. 1839. Heard, and representation made thereupon. *Approved*, 9th Dec. 1839.	Petitioner: Makinson and Saunders.	Application under th- 2nd and 3rd Vict Cap. 67. Representation to the Queen to rescind the order of the 12th December, 1838. Representation made to Her Majesty to allow the petitioner to commence his application de novo. The application being renewed was re-heard by the Judicial Committe, and reported on the 20th May, 1840. Report approved, 22nd May, 1840. Extension for 7 years.
1840. No. 1	THOMAS QUARRILL, of Baker Street, Portman Square, county of Middlesex.	For certain improvements in the manufacture of lamps. (5434), 20th December, 1826.	Prolongation. *Lodged*, 11th Mar. 1840. *Referred*, 3rd April, 1840. *Reported*, 30th June, 1840. *Approved*, 13th July, 1840.	Petitioner: Thomas and Moore, Crane Court.	Application dismissed.
„ 2	GABRIEL RIDDLE, of Paternoster Row, London, Stationer, and THOMAS PIPER, of Bishopsgate Street, London, Builder, (assignee of the Letters Patent granted to Theodore Jones.)	For a certain improvement or improvements on wheels for carriages. For England and Wales, &c. (5415), 11th October, 1826.	Prolongation. *Lodged*, 7th May, 1840. *Referred*, 22nd May, 1840. *Reported*, 8th July, 1840. *Approved*, 13th July, 1840.	Petitioner: Willis, Bower, and Willis.	Granted for 7 years.
„ 3	JOHN WOODCROFT, of Salford, in the county of Lancaster,(Patentgranted to Bennet Woodcroft.)	For certain processes and apparatus for printing and preparing for manufacture of yarns of linen, cotton, silk, woollen, or any other fibrous material. For England (5480), 31st March, 1827; Scotland, 24th October, 1827; Sealed, 28th November, 1827; Ireland, 11th February, 1828.	Prolongation. *Lodged*, 30th Sept. 1840. *Referred*, 3rd Oct. 1840. *Reported*, 11th Feb. 1841. *Approved*, 11th Feb. 1841.	Petitioner: Bower and Back. Opponents: 1. Henry Shackell, Tokenhouse Yard. 2. Watkins and Hooper.	Application dismissed.
1841. No. 1	THOMAS ROBINSON WILLIAMS.	For improvements in the making of hats, bonnets, and caps, and in the covering of these with silk and other materials with the assistance of machinery. For England, &c. (5699), 11th September, 1828.	Prolongation. *Lodged*, 28th May, 1841. *Referred*, 4th June, 1841.	Petitioner: Messrs. Roy and Blunt.	

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1842.	James Simister, Bull St., Birmingham.	For an improvement in weaving, preparing, or manufacturing a cloth or fabric, and the application thereof to the making of stays, &c. For England (5744), 18th December, 1828.	Prolongation. *Lodged*, 17th June, 1842. *Referred*, 29th June, 1842. *Reported*, 8th Dec. 1842. *Approved*, 10th Dec. 1842.	Petitioner: W. H. Ashurst, 137, Cheapside. Opponents: Shakell, Tokenhouse Yard, afterwards Gregory and Faulkner.	To be heard on the 28th Nov. 1842. Application refused.
1843. No. 1.	Charles Brook, Meltham Mills, Huddersfield.	For certain improvements in machinery for spinning cotton and other fibrous substances. For England (5800), 4th June, 1829; Scotland 17th December, 1829.	Prolongation. *Lodged*, 4th Jan. 1843. *Referred*, 1st Feb. 1843.	Petitioner: Watkins and Hooper, Sackville Street. Opponents: J. C. Robertson and Co., 166, Fleet Street.	Opposition withdrawn. Hearing fixed 19th April, 1843. Application withdrawn.
,, 2	James Lancaster Lucena, of No. 4, Garden Court, Middle Temple, London, Barrister-at-Law, assignee of Letters Patent granted to Elijah Galloway, of King Street, in the borough of Southwark, Engineer.	For certain improvements in [steam engines and other] machinery for propelling vessels [which improvements are applicable to other purposes]. For England (5805), 2nd July, 1829; Scotland, 3rd August, 1829.	Prolongation. *Lodged*, 6th Feb. 1843. *Referred*, 24th Feb. 1843. *Reported*, 13th May, 1843. *Approved*, 10th June, 1843.	Petitioner: T. F. Maples, 6, Frederick's Place, Old Jewry. Opponents: Messrs. Shearman and Evans, 2, Gray's Inn Square.	This application is confined to so much of the patent as is described by the words "Certain improvements in machinery for propelling vessels," the words "steam engines and others," and also the words "which improvements are applicable to other purposes," having been disclaimed under and by virtue of the Act of Parliament. Notice of application 6th March. Hearing fixed 19th April, 1843. Extension granted for 5 years.
,, 3	James Soames, junr., of Wheeler Street, Spitalfields, Soap Maker (Grantee), and likewise William Wilson, John Studholme Brownrigg, John Cockerell, and Sir George Gérard de Hochepied Larpent, Baronet (assignees of the Patent), trading under the firm of Edward Price, and Co.	For a new preparation or manufacture of a certain material produced from a vegetable substance, and the application thereof to the purposes of affording light and other uses. For England, Wales, &c., (5842), 9th September, 1829; for Colonies and Plantations, 2nd November, 1829; for Scotland, sealed 17th December, 1829; for Ireland, 9th September, 1829.	Prolongation. *Lodged*, 7th March, 1843. *Referred*, 3rd April, 1843. *Reported*, 21st June, 1843. *Approved*, 15th July, 1843.	Petitioners: Robert Wilson, 1, Copthall Buildings. Opponents: 1. Watkins and Hooper, Sackville Street. 2. Weymouth and Green, 17, Cateaton Street.	Application for appointment for hearing to be made on the 10th April, 1843. Hearing fixed for 21st June, 1843. Extended for 3 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1843. No. 4	DAVID STEAD, formerly of Great Winchester Street, in the city of London, and now of No. 250, Strand, in the county of Middlesex, Merchant.	For making or paving public streets and highways, public and private roads, courts, and bridges, with timber or wooden blocks. For England, Wales, and Berwick-upon-Tweed (7645), dated 19th May, 1838.	Confirmation. *Lodged*, 3rd April, 1843. *Referred*, 3rd April, 1843. *Reported*, 4th April, 1846. *Approved*, 6th April, 1846.	Petitioner: John Duncan, 72, Lombard Street. Opponents: 1. Henry Shackell, 23, Tokenhouse Yard. 2. Hodgson and Burton, 1, Salisbury Street, Strand.	Application for appointment for hearing to be made on the 26th April, 1843. Hearing fixed for 24th June, 1843, by order dated 13th May. Dismissed.
„ 5	SAMUEL WRIGHT, of Skelton, in the Staffordshire Potteries, in the county of Stafford.	For a manufacture of ornamental tiles, bricks, and quarries for floor pavements and other purposes. For England, Wales, &c. (5890), 26th January, 1830.	Prolongation. *Lodged*, 15th May, 1843. *Referred*, 10th June, 1843. *Reported*, 5th July, 1843. *Approved*, 15th July, 1843.	Petitioner: G. Dacre (Solicitor), 2, Parliament St., Westminster, and Robertson and Co., Patent Agents.	Application for hearing to be made on the 7th June, 1843. Extended for 7 years.
„ 6	THOMAS MORGAN, of Broadwater Works, in the parish of Wolverley, in the county of Worcester (Patentee), and also of JOHN LEWIS, and THOMAS LEWIS, both of Tydee Works, Newport, in the county of Monmouth.	For a new method of manufacturing or preparing iron plates or black plates for tinning. For England (5843), 9th September, 1829.	Prolongation. *Lodged*, 22nd May, 1843. *Referred*, 10th June, 1843. *Reported*, 15th July, 1843. *Approved*, 15th July, 1843.	Petitioners: Watkins and Hooper, Sackville Street.	Application for hearing to be made 13th June, 1843. Application refused.
1844. No. 1	CHARLES DEROSNE, of Chaillot, near Paris.	For the invention of a certain improvement or certain improvements to be used in the course of the process of extracting sugar or syrup from cane juice and other substances containing sugar, and also to be used in the course of the process of refining sugar and syrup for the purpose, in either case, of removing the colour from or whitening and purifying such sugars or syrups respectively. For England, Wales, &c., and the Colonies (6002), dated 29th September, 1830.	Prolongation. *Lodged*, 23rd Feb. 1844. *Referred*, 4th Mar. 1844. *Reported*, 20th May, 1844. *Approved*, 23rd May, 1844.	Petitioner: Graham, Mitre Court, Temple.	Extension granted for 6 years.

Year and No. of pplication.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1844. No. 2.	ROBERT POW, of North Shields, in the county of Northumberland, assignee of John Robinson.	For a nipping lever for causing the rotation of wheels, shafts, and cylinders under certain circumstances. For Scotland, 22nd March, 1839.	Confirmation. *Lodged*, 29th June, 1844. *Referred*, 10th July, 1844. *Reported*, 3rd Feb. 1845. *Approved*, 5th Feb. 1845.	Petitioner: Holme, Loftus, and Young.	Appointment to be moved on 6th Aug. 1844. Day appointed 3rd Feb. 1844. Petition dismissed.
,, 3	THOMAS, Earl of Dundonald.	For an improved rotatory engine to be impelled by steam, but which may also be rendered applicable for other purposes. For England (6036), 11th November, 1830; Scotland, 2nd June, 1831.	Prolongation. *Lodged*, 30th Aug. 1844. *Referred*, 3rd Sept. 1844. *Reported*, 7th Nov. 1844. *Approved*, 8th Nov. 1844.	Petitioner: Petitioner in person, 2, Victoria Square, Pimlico.	Prolongation granted for 14 years, under the 7th & 8th Vict. cap. 69.
,, 4	ANGIER MARCH PERKINS.	For certain improvements in the apparatus or method of heating the air in buildings, heating and evaporating fluids, and heating metals. For England (6146), 30th July, 1831; Scotland, 2nd November, 1832.	Prolongation. *Lodged*, 19th Dec. 1844. *Referred*, 13th Jan. 1845. *Reported*, 10th Mar. 1845. *Approved*, 26th Apr. 1845.	Petitioner: Watkins and Hooper, 11, Sackville St.	Application for day to be fixed for hearing to be made on the 4th Jan. 1845. Extended for 5 years.
1845. No. 1	BENJAMIN AINGWORTH, of Birmingham, in the county of Warwick.	For an improvement in the making and construction of buttons. For England and Wales (6155), 30th August, 1831; Scotland, 23rd August, 1831; Ireland, 26th December, 1831.	Prolongation. *Lodged*, 22nd Feb. 1845. *Referred*, 26th Apr. 1845.	Petitioner: E. A. Chaplin, 3, Gray's Inn Square. Opponents: Watkins and Hooper.	Application for hearing to be made on the 3rd April, 1845. Withdrawn.
,, 2	HENRY GORE, of Manchester, in the county of Lancaster, Machine Maker.	For an improvement in the machines, commonly called by spinners throstle frames and spinning frames, which machines operate by spindles, and flyers, and bobbin, for spinning or twisting yarn or thread. For England and Wales (6201), 22nd December, 1832.	Prolongation. *Lodged*, 4th June, 1845. *Referred*, 30th June 1845.	Petitioner: Johnson and Weatherall. Opponents: 1. Watkins and Hooper. 2. Bower and Back. 3. Baxendale.	Application to be made on 2nd July, 1845. Withdrawn, 19th Nov. 1845.
,, 3	BENNET WOODCROFT, of Manchester, in the county palatine of Lancaster.	For certain improvements in the construction and adaptation of a revolving spiral for propelling boats and other vessels in water. For England and Wales (6250), 22nd March, 1832; Scotland, 21st May, 1832.	Prolongation. *Lodged*, 6th Dec. 1845. *Referred*, 10th Dec. 1845. *Reported*, 11th Mar. 1846. *Approved*, 18th Mar. 1846.	Petitioner: Watkins and Hooper. Opponents: Few and Son.	Application to be made 31st December 1845. Granted for 6 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1845. No. 4	GEORGE LOWE, of Brick Lane, Old Street, in the county of Middlesex, Civil Engineer.	For an invention for increasing the illuminating power of such coal gas as is usually produced in gas works, also for converting the refuse products from the manufacture of coal gas into an article of commerce not heretofore produced therefrom, and also a new mode of conducting the process of condensation in the manufacture of gas for illumination. For England, Wales, &c. (6276), 9th June, 1832; Ireland, 14th November, 1832; Scotland, 6th December, 1832.	Prolongation. *Lodged,* 8th Dec. 1845. *Referred,* 10th Dec. 1845. *Reported,* 4th April, 1846. *Approved,* 6th April, 1846.	Petitioner: Sutton, Ewens, and Ommaney.	Application for day of hearing to be made 3rd February, 1846. Extended for 5 years.
1846. No. 1	RICHARD BELL, No. 16, Basing Lane, London.	For an improved apparatus for producing instantaneous light, and the means and mechanism to be employed in the manufacture of the same. For England, Wales, &c. (6295), 10th August, 1832.	Prolongation. *Lodged,* 2nd Jan. 1846. *Referred,* 30th Jan. 1846. *Reported,* 4th April 1846. *Approved,* 6th April, 1846.	Petitioner: Stevens and Satchell.	Application for day of hearing to be made 24th January, 1846. Dismissed.
,, 2	JOHN SYLVESTER, of Great Russell Street, in the county of Middlesex.	For certain improvements in apparatus for raising the temperature of air to warm and ventilate buildings. For England, Wales, &c. (6273), 5th June, 1832.	Prolongation. *Lodged,* 2nd Feb. 1846.	Petitioner: Watkins and Hooper.	Notice that application for day to be fixed will be made 25th February, 1846. Withdrawn 6th February 1846.
,, 3	GEORGE FREDERICK MUNTZ, of French Walls, near Birmingham, Merchant.	The invention and improved manufacture of bolts and other the like ships' fastenings. For England, &c. (6347), 17th December, 1832. "The invention and improved manufacture of metal plates for sheathing the bottom of ships or other such vessels." For England, &c. (6325), 22nd October, 1832; Scotland (for both inventions), 16th May, 1833; Ireland (for both inventions), 4th April, 1834.	Prolongation. *Lodged,* 9th Mar. 1846. *Referred,* 18th Ma 1846 *Reported,* 31st July, 1846. *Approved,* 1st Aug. 1846.	Petitioner: Gregory and Faulkner. Opponents: Scott and Combs, Mildred Court.	Notice for application for hearing to be made 2nd April. Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1846. No. 4	RICHARD WHYTOCK, of Edinburgh, Manufacturer.	An improved method or manufacture which facilitates the production of regular figures or patterns on different fabrics, particularly velvets, velvet pile, and Brussels, Wilton, and Turkey carpets. For England, Wales, &c. (6307), 8th September, 1832; Ireland, 15th August, 1833. For an improved method or manufacture which facilitates the production of regular figures or patterns on different fabrics, particularly velvets, velvet pile, and Brussels, Wilton, and Turkey carpets, with a saving of material. For Scotland, 21st September, 1832.	Prolongation. *Lodged*, 9th Apr. 1846. *Referred*, 19th May, 1846. *Reported*, 15th June, 1846. *Approved*, 6th July, 1846.	Petitioner: Watkins and Hooper, Sackville Street. Opponents: Wilson and Harrison, Copthall Court.	Extension granted for 5 years.
	ALEXANDER MITCHELL, of Belfast, in Ireland, Civil Engineer.	For a certain invention of a dock of improved construction to facilitate the repairing, building, or retaining of ships and other floating vessels, certain parts employed in the construction of the said dock being also applicable to other purposes. For England, &c. (6446), 4th July 1833; Ireland, 13th September 1833.	Prolongation. *Lodged*, 23rd Nov. 1846. *Referred*, 19th Dec. 1846.	Petitioner: Watkins and Hooper.	
1847. No. 1	HUGH LEE PATTINSON, of Gateshead, Manufacturing Chemist.	For an improved method of separating silver from lead. For England and the Colonies (6497), 28th October, 1833.	Prolongation. *Lodged*, 18th Feb. 1847. *Referred*, 27th Feb. 1847. *Reported*, 21st June 1847. *Approved*, 22nd July 1847.	Petitioner: Watkins and Hooper, Sackville Street. Opponents: 1. Crowder and Maynard for Messrs. Walker. 2. E. H. Plumptree, Temple. 3. Williamson and Hill, 4, VerulamBuildings. 4. Tilson, Squance, Drake, and Morice. 5. Robinson and Barlow. 6. Miggison, Pringle, Stevenson, and Shurn, 3, King's Road. 7. Broderick and Bell, Bow Church Yard.	Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1847. No. 2	JAMES SMITH, late of Deanston, now of Queen's Square, Westminster, BLANE ROBERTSON, relict and executrix of John Robertson, ANDREW BROWN, of Linwood, JOSEPH WHITEHEAD, of Paisley, JOHN ORR EWING, of Broomby, WILLIAM LOWNDES, of Paisley, WILLIAM ORR, of Glasgow, trustees under the wills of John Orr and James Orr, of Crofthead, and of John Orr, of Glasgow, trustee under the will of John Orr, of Crofthead.	For "Certain improvements in machinery used in the preparing and spinning of cotton, flax, wool, and other fibrous substances," bearing date respectively for England, &c. (6560), 20th February, 1834; Scotland, 19th March, 1834; Ireland, 14th March, 1834, granted to James Smith, of Deanston. Likewise, For "Certain improvements in the mule, jenny, or other machine for spinning of cotton, and in the billy stretching frame or other machine for roving of cotton; and in the machinery for roving and spinning of silk, wool, flax, hemp, or other fibrous substances." For England, &c. (6475), 21st September, 1833; Scotland, 23rd September, 1833; Ireland, 23rd October, 1833, granted to John Robertson, of Crofthead.	Prolongation. *Lodged*, 17th Mar. 1847. *Referred*, 24th Apr. 1847. *Reported*, 21st June 1847. *Approved*, 22nd July 1847.	Petitioners: Tatham, Upton, and Johnston, 20, Austin Friars. Opponents: Bower and Back, Chancery Lane.	Application to be made on 23rd April, 1847. Dismissed.
„ 3.	NATHANIEL CARD, of Manchester, Candlewick Maker.	For certain improvements in the manufacture of wicks for candles, lamps, and other similar purposes, and in the apparatus connected therewith. For England, &c. (9074), 8th September, 1841.	Confirmation. *Lodged*, 19th June, 1847. *Referred*, 22nd July, 1847. *Reported*, 9th Feb. 1848. *Approved*, 11th Feb. 1848.	Petitioner: Bower and Son Opponents: Gregory and Faulkner, three caveats.	To be heard 9th Feb. 1848. Order for hearing issued 25th Jan. 1848. Application dismissed.
„ 4.	HENRY PINKUS, formerly of North Crescent, Bedford Square, in the county of Middlesex, but now of Essex Street, Strand, in the same county, Gentleman.	For an improved method of or apparatus for communicating and transmitting or extending motive power, by means whereof carriages or waggons may be propelled on railways or common roads, and vessels may be propelled on canals. For England (6570), 1st March, 1834; Scotland, 14th June, 1834; Ireland, 21st October, 1835.	Prolongation. *Lodged*, 31st Aug. 1847. *Referred*, 28th Sept. 1847. *Reported*, 10th Feb. 1848. *Approved*, 11th Feb. 1848.	Petitioner: L. R. Bellamy. Opponents: Tatham, Upton, and Johnson.	To be heard 9th Feb. 1848. Application dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1848. No. 1.	JAMES HARDY, formerly of Wednesbury, in the county of Stafford, but now of Stratton, in the county of Somerset, and also of CHARLES GEACH, of Birmingham, in the county of Warwick, and of THOMAS WALKER, of Wednesbury, in the county of Stafford.	For a certain improvement or certain improvements in the making and manufacturing of axletrees for carriages, and of other cylindrical and conical shafts. For England, &c. (6807), 4th April, 1835.	Prolongation. *Lodged*, 24th July, 1848. *Referred*, 11th Aug. 1848. *Reported*, 16th Feb. 1849. *Approved*, 1st Mar. 1849.	Petitioners: Clark, Gray, and Woodcock, 20, Lincoln's Inn Fields. Opponent: Combe, Staple's Inn.	Extension granted for 4 years to the assignees upon their securing 5,000*l.* to the Patentee (payable at fixed periods), and also engaging not to raise the price of the axles.
1849. No. 1.	GEORGE BAXTER, of Northampton Square, Clerkenwell, Middlesex, Engraver and Printer.	For improvements in producing colored steel-plate, copper-plate, and other impressions. For England, Wales, &c. (6916), 23rd October, 1835.	Prolongation. *Lodged*, 24th Feb. 1849. *Referred*, 1st Mar. 1849. *Reported*, 21st June, 1849. *Approved*, 29th June, 1849.	Petitioner: J. Mills, 3, Brunswick Place, City Road. Opponent: George Cargill Leighton, 19, Lamb's Conduit Street, (Opponent in person).	Day for application for hearing, 23rd March, 1849. Extension granted for 5 years.
„ 2	THOMAS HORNBY BIRLEY, of Manchester, in the county of Lancaster, Cotton Spinner (Bodmer's Patent).	For certain improvements in machinery for preparing, roving, and spinning cotton and wool. For England, Wales, &c. (6841), 27th May, 1835.	Prolongation. *Lodged*, 20th Mar. 1849. *Referred*, 1st May 1849. *Reported*, 16th May 1849. *Approved*, 21st May 1849.	Petitioner: Bower and Son, 46, Chancery Lane.	Day for application of hearing, 11th April, 1849. Extension granted for 5 years.
„ 3	WILLIAM PATTERSON, formerly of Dublin, but now of Gower Street, Bedford Square, in the county of Middlesex.	For a certain improvement in converting hides and skins into leather by the application of a material not theretofore employed for that purpose. For England (6913), 22nd October, 1835; Ireland, 27th October, 1835; Scotland, 4th November, 1835.	Prolongation. *Lodged*, 28th Mar. 1849. *Referred*, 1st May 1849. *Reported*, 21st June 1849. *Approved*, 29th June 1849.	Petitioner: Pittendreigh and Stevenson, South Square, Gray's Inn.	Day of application for hearing, 25th April, 1849. Dismissed.
„ 4	SAMUEL FAULKNER, of Manchester, Cotton Spinner.	For an improvement in the construction of a machine for carding cotton and other fibrous substances. For England, Wales, &c. (6874), 7th August, 1835.	Prolongation. *Lodged*, 21st June 1849. *Referred*, 29th June 1849.	Petitioner: J. Bethell, 8, Parliament Street.	

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1849. No. 5	JULIUS JEFFREYS, formerly of Osnaburg Street, Regent's Park, but now of Porchester Terrace, Hyde Park, F.R.S., F.G.S.	For improvements in curing or relieving disorders of the lungs. For England, Wales, &c. (6988), 23rd January, 1836.	Prolongation. *Lodged*, 19th July 1849. *Referred*, 5th Sept. 1849.	Petitioner: Watkins and Hooper. Opponents: Bower and Son.	To be heard on Tuesday 11th February, 1850. Withdrawn.
„ 6	FRANCIS PETTIT SMITH, formerly of Hendon, Farmer, but now of Saint John's Wood, county of Middlesex, Engineer, Sir JOHN DEAN PAUL, Bart., of 219, Strand, JOHN MALTBY SUNLEY, of 71, Cornhill, and THOMAS WILLIAM DUKES, of 2, Henrietta Street, Covent Garden.	For an improved propeller for steam and other vessels. For England, Wales, &c. (7104), 31st May, 1836.	Prolongation. *Lodged*, 29th Nov. 1849. *Referred*, 8th Jan. 1850. *Reported*, 11th Feb. 1850. *Approved*, 9th Mar. 1850.	Petitioners: Few and Co.	Hearing to be moved for 1st January, 1850. To be heard on 11th February, 1850. Granted for 5 years, with reservation of the rights of the Admiralty.
„ 6A	FRANCIS PETITT SMITH, formerly of Hendon, Farmer, but now of St. John's Wood, county of Middlesex, Engineer, Sir JOHN DEAN PAUL, Bart., of 219, Strand, JOHN MALTBY SUNLEY, of 71, Cornhill, and THOMAS WILLIAM DUKES, of 2, Henrietta Street, Covent Garden.	For an improved propeller for steam and other vessels. For Scotland, 15th June, 1836; Ireland, 3rd September, 1836.	Prolongation. *Lodged*, 14th Dec. 1849. *Referred*, 8th Jan. 1850. *Reported*, 11th Feb. 1850. *Approved*, 9th Mar. 1850.	Petitioners: Few and Co.	Granted for 5 years, with reservation of the rights of the Admiralty.
„ 7	JEAN LOUIS LAMENAUDE, Jeweller, of Oxford Street, Westminster.	For a new process of applying or fixing letters of metal upon glass, marble, wood, and other substances. For England, &c. (12,214), 18th July, 1848.	Confirmation. *Lodged*, 21st Dec. 1849. *Referred*, 8th Jan. 1850. *Reported*, 12th Feb. 1850. *Approved*, 9th Mar. 1850.	Petitioner: Joseph Reed, 13A, Red Lion Square. Opponent: Joseph Humphreys, 17, Church Street, Chelsea (in person).	Hearing to be moved, 15th January, 1850. To be heard on 12th February, 1850. Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1849. No. 8	WILLIAM GEORGE BICKNELL and JAMES REGINALD TORIN GRAHAM, Holders of a Patent in the name of Miles Berry.	For certain improvements in machinery and apparatus for cleansing, purifying, and drying wheat or other grain and seeds. For England Wales, &c. (7111), 7th June, 1836; Scotland, 10th March, 1837; Ireland, 17th December, 1837.	Prolongation. *Lodged*, 27th Dec. 1849. *Referred*, 8th Jan. 1850. *Reported*, 13th Mar. 1850. *Approved*, 22nd Mar. 1850.	Petitioners: H. Vane, Carlton Chambers.	Granted for 6 years.
1850. No. 1	HENRY RAWSON, of the town of Leicester, Machine Maker, and GEORGE EDMUND DONISTHORPE, of Leeds, in the county of York, Machine Maker, and of SAMUEL CUNLIFFE LISTER, of Manningham, in the same county, Machine Maker.	For certain improvements in the combing of wool and other fibrous substances. For England, Wales, &c. (6805), 3rd April, 1835.	Prolongation. *Lodged*, 2nd Jan. 1850. *Referred*, 8th Jan. 1850. *Reported*, 15th Mar. 1850. *Approved*, 22nd Mar. 1850.	Petitioners: Wilson, Harrison, and Bristow, 1, Copthall Buildings. Opponents: 1. J. Goren, 29, South Molton Street. 2. J. W. Flower, 61, Bread Street, Cheapside. 3. Morris, Stone, and Townson.	Dismissed.
"	JOHN ERICSSON, formerly of Brook Street, New Road, but now of New York, U. S., and Count ADOLPHE EUGENE DE ROSEN, of 84, Jermyn Street, St. James's.	For an improved propeller applicable to steam navigation. For England, &c. and Colonies (7149), 13th July, 1836.	Prolongation. *Lodged*, 17th Jan 1850. *Referred*, 30th Jan. 1850. *Reported*, 25th June, 1850. *Approved*, 13th July, 1850.	Petitioners: Shoubridge and Bramley, 3, Bedford Row. Opponent: Robson, 10, Lancaster Place.	Application to be made on 11th February, 1850. Granted for 5 years.
" 3	JOHN GIBSON, of Glasgow, and CHARLES CAMPBELL, of Glasgow.	For a new or improved process or manufacture of silk, and silk in combination with certain other fibrous substances. For England, Wales, &c. (7228), 19th November, 1836; Scotland, 20th May, 1837; Ireland, 21st January, 1837.	Prolongation. *Lodged*, 9th May 1850. *Referred*, 19th June 1850. *Reported*, 17th Dec. 1850. *Approved*, 3rd Feb. 1851.	Petitioners: C. Evans, 2, Gray's Inn Square. Opponents: 1. Messrs. Tatham, Upton, and Co. 2. Messrs. Jaques and Co. 3. Messrs. Bower and Son.	Opposition withdrawn. Day of application, 3rd June. Granted for 6 years for England and Ireland; for Scotland, vide infra, January, 1851.
" 4	JAMES POTTER, of Manchester.	For certain improvements in spinning machinery. For England (7263), 21st December, 1836; Scotland, 6th October, 1837.	Prolongation. *Lodged*, 17th June 1850. *Referred*, 19th June 1850. *Reported*, 10th Feb. 1851. *Approved*, 7th Mar. 1851.	Petitioner: Abbott and Atkinson, 35, Lincoln's Inn Fields. Opponents: Plucknett and Adams, 17, Lincoln's Inn Fields.	Day of application, 10th July. Granted for 5 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1850. No. 5	John James Siordet, John Charles Louis Meyer, and Robert Louis Siordet, of No. 3, St. Helen's Place, City of London, and Henry Patteson and John Field, of Warneford Court, London. Patents granted to W. H. Craufurd, R.N., for England and Scotland, and Miles Berry for Ireland.	For an improvement in coating or covering iron and copper for the prevention of oxidation. For England, &c. (7355), 29th April, 1837; Scotland, 2nd May 1837. For a new and improved method or process of alloying metals by cementation, particularly applicable to the preservation of copper, wrought or cast iron, and other metals, and thereby operating a change in their surface, and giving them more brilliancy. Ireland, 2nd May, 1838.	Prolongation. *Lodged*, 31st Oct. 1850. *Referred*, 13th Nov. 1850. *Reported*, 13th Feb. 1851. *Approved*, 7th Mar. 1851.	Petitioners: J. A. Pinneger, 5, Raymond Buildings. Opponents: Nicholls and Doyle, 48, Bedford Row.	Day for application, 30th November. Dismissed.
„ 6	The Electric Telegraph Company, assignees of William Fothergill Cook and Charles Wheatstone.	For improvements in giving signals and sounding alarums in distant places by means of electric currents transmitted through metallic circuits. For England, Wales, &c. (7390), 12th June, 1837.	Prolongation. *Lodged*, 14th Nov. 1850. *Referred*, 12th Dec. 1850. *Reported*, 12th Feb. 1851. *Approved*, 7th Mar. 1851.	Petitioners: Wilson, Harrison, and Bristow. Opponents: 1. Bell and Stewart. Three caveats. 2. Thomson, Debenham, and Nunn, Salters' Hall, St. Swithin's Lane. 3. Alexander Dobie. 4. Cameron and Martin, 10, New Palace Yard.	Application to be made, 7th December, 1850. Dismissed.
„ 7	Edward Austin, of 163, Albany Road, Camberwell.	For improvements in raising sunken vessels and other bodies. For England, Wales, &c. (7372), 12th May 1837.	Prolongation. *Lodged*, 25th Nov. 1850. *Referred*, 12th Dec. 1850. *Reported*, 19th Feb. 1851. *Approved*, 7th Mar. 1851.	Petitioner: Paxon, 16, Bloomsbury Square.	Application to be made, 19th December. Dismissed.
„ 8	Francis Pufford, Esq., of Bellbroughton, county of Worcester, M. P., assignee of Patent granted to Henry Davies, Esq., of Stoke Prior, county of Worcester.	For certain improved apparatus or machinery for obtaining mechanical power, also certain improved apparatus or machinery for impelling or raising fluids. For England, Wales, &c. (7325), 15th March, 1837.	Prolongation. *Lodged*, 28th Nov. 1850. *Referred*, 12th Dec. 1850.	Petitioner: Alger, Bedford Row.	Day for application, 21st December, 1850. Withdrawn.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1851. No. 1	JOHN SHEWELL and GEORGE BARRETT LENNARD, trustees of Claridge's Patent Asphalte Company. — (Patentee, Richard Tappin Claridge.)	For an invention of a mastic cement or composition applicable to paving and road making and covering buildings, and various purposes to which cement, mastic, lead, zinc, or composition are employed. For England, &c. (7489), 25th November, 1837; Scotland, 27th March, 1838; Ireland, 23rd April, 1838.	Prolongation. *Lodged*, 2nd Jan. 1851. *Referred*, 3rd Feb. 1851. *Reported*, 15th May 1851. *Approved*, 25th June 1851.	Petitioners: Hodgson and Burton, 10, Salisbury St.	Application to be made, 31st January, 1851. Dismissed.
„ 2	JOHN GIBSON, of Glasgow, and CHARLES CAMPBELL, of Glasgow, Merchant and Silk Spinner.	For a new or improved process or manufacture of silk, and silk in combination with certain other fibrous substances. For Scotland, 20th May, 1837.	rolongation. *odged*, 9th Jan. 1851. *Referred*, 3rd Feb. 1851. *Reported*, 17th Feb. 1851. *Approved*, 7th Mar. 1851.	Petitioners: Evans and Close, 2, Gray's Inn Square.	Notice on 10th February, 1851. Granted for 6 years.
„ 3	JAMES DOWIE, of No. 455, Strand.	For improvements in the construction of boots and shoes, and other covering for the human feet. For England, Wales, &c. (7493), 2nd December, 1837.	Prolongation. *Lodged*, 30th May, 1851. *Referred*, 25th June, 1851. *Reported*, 5th Dec. 1851. *Approved*, 26th Dec. 1851.	Petitioner: R. Comyn, 31, Lincoln's Inn Fields.	Notice on 27th June, 1851. Dismissed.
„ 4.	BENNET WOODCROFT, formerly of Mumps, in the county of Lancaster, but now of Furnival's Inn, in the city of London, Gentleman.	For improvements in the construction of looms for weaving various sorts of cloths, which looms may be set in motion by any adequate power. For England (7529), 4th January, 1838; Scotland, 19th July, 1838; Ireland, 25th July, 1838.	Prolongation. *Lodged*, 1st July, 1851. *Referred*, 17th July, 1851. *Reported*, 18th Feb. 1851. *Approved*, 5th Mar. 1852.	Petitioner: Watkins and Hooper, 11, Sackville St. Opponents: Bower and Son, 46, Chancery Lane. (Withdrawn.)	Day fixed for application, 26th July, 1851. Opposition withdrawn 21st January, 1852. Granted for 7 years.
„ 5.	JAMES LOWE, of No. 4, Charlotte Place, Grange Road, Bermondsey, in the county of Surrey, Mechanic.	For improvements in propelling vessels. For England (7599), 24th March, 1838.	Prolongation. *Lodged*, 23rd Sept. 1851. *Referred*, 23rd Oct. 1851. *Reported*, 21st Feb. 1852 *Approved*, 5th Mar. 1852.	Petitioner: T. E. Wyche, 13, George Street, Mansion House. Opponents: 1. William Frogatt Robson, Solicitor to the Admiralty, 10, Lancaster Place. 2. George Smart Chevallier, 166, Fleet Street. 3. Thomas Browning, 1, Hatton Court. 4. Richard Cattarns, 33, Mark Lane. 5. John James, 58, Lincoln's Inn Fields. (4 caveats.)	Day for application, 17th November, 1851. Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1851. No. 6.	Sir WILLIAM BURNETT, Kt., Somerset House.	For improvements in preserving wood and other vegetable matters from decay. For England, (7747), 26th July, 1838.	Prolongation. *Lodged*, 4th Nov. 1851. *Referred*, 14th Nov. 1851. *Reported*, 7th Feb. 1852. *Approved*, 11th Feb. 1852.	Petitioner: R. Ellis, Cowper's Court, Cornhill.	Day for application, 29th November, 1851. Granted for 7 years.
„ 7.	THOMAS RIDGWAY BRIDSON, of Bolton-le-Moors, Bleacher, and JOHN MANGNALL, of Sharples, Paper Manufacturer.	For improvements in machinery or apparatus for stretching, drying, or finishing woven fabrics. For England, Wales, &c. (7653), 26th May, 1838.	Prolongation. *Lodged*, 24th Nov. 1851. *Referred*, 26th Dec. 1851. *Reported*, 7th Feb. 1852. *Approved*, 11th Feb. 1852.	Petitioners: Johnson and Weatherall. Opponents: 1. Bower and Son. 2. Gregory and Faulkner.	Day of application, 22nd December, 1851. Withdrawn. Costs of opponents to be paid by petitioner.
„ 8.	JOSEPH JEPSON ODDY TAYLOR, of Gracechurch Street, London, Machinist.	For improvements in propelling ships and other vessels on water. For England, Wales, &c. (7629), 1st May, 1838.	Prolongation. *Lodged*, 27th Nov. 1851. *Referred*, 26th Dec. 1851. *Reported*, 21st Feb. 1852. *Approved*, 5th Mar. 1852.	Petitioner: Hubbard, 18, Bucklersbury.	Day of application, 24th December, 1851. Granted for 4 years, on lodging Disclaimer of 1st part of Specification.
1852. No. 1	JAMES HONIBALL, Cornhill, Anchor, Manufacturer, assignee of Patent granted to William Henry Porter.	For improvements in anchors. For England, &c. (7774), 15th August, 1838; Scotland, 2nd April, 1839.	Prolongation. *Lodged*, 14th Feb. 1852. *Referred*, 5th Mar. 1852. *Reported*, 19th July 1852. *Approved*, 18th Aug. 1852.	Petitioner: Watkins and Hooper. Opponents: 1. Keightley, Cunliffe, and Beaumont. 2. Shearman and Slater. Opposition withdrawn.	Date of application, 15th March, 1852. Granted for 6 years.
„ 2	JAMES MORRISON, Iron Master, now of Newcastle-upon-Tyne, JAMES BROWN, late of New Bridge, in the county of Monmouth, now of Brynglass, near Newport, in the same county, and CLAUDE GEORGE ROBIN, of Munster, in France, assignees of Letters Patent granted to Miles Berry.	For certain improvements in the means of economizing heat and fuel in furnaces or closed fireplaces. For England, Wales, &c. (7656), 31st May, 1838; Scotland, 15th June, 1838.	Prolongation. *Lodged*, 30th Mar. 1852. *Referred*, 5th Apr. 1852. *Reported*, 24th May, 1852. *Approved*, 15th June 1852.	Petitioners: Holme, Loftus, and Young, transferred to Mr. Wight, of 13, Russell Place, Fitzroy Square, by letter dated 8th April, 1852. Opponents: Tatham and Upton.	Date of application, 23rd April. Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1852. No. 3	JAMES BERINGTON, of Shoreditch, Veterinary Surgeon.	For improvements in knapsacks. For England, Wales, &c. (7853), 3rd November, 1838.	Prolongation. *Lodged*, 1st May, 1852. *Referred*, 15th May, 1852. *Reported*, 5th July, 1852. *Approved*, 18th Aug. 1852.	Petitioner: Watkins and Hooper.	Day of application, 29th May. Extended for 5 years.
„ 4	WILLIAM NASH, of Budge Row, in the city of London, Merchant, now of 91, Minories.	For certain improvements in the construction of bridges, viaducts, roofs, and other parts of buildings. For England, Wales, &c. (7975), 21st February, 1839.	Prolongation. *Lodged*, 9th Sept. 1852. *Referred*, 16th Oct. 1852. *Reported*, 2nd Feb. 1853. *Approved*, 7th Feb. 1853.	Petitioner: Bower and Son.	Day of application, 2nd October, 1852. Abandoned.
„ 5	CHARLOTTE CATHARINE HEATH, of Fairlawn House, Hammersmith, widow and administratrix of Josiah Marshall Heath (late Patentee).	For certain improvements in the manufacture of iron and steel. For England, Wales, &c. (8021), 5th April, 1839.	Prolongation. *Lodged*, 25th Oct. 1852. *Referred*, 10th Nov. 1852. *Reported*, 8th Feb. 1853. *Approved*, 21st Feb. 1853.	Petitioner: Sutton and Ommaney. Opponent: R. S. Deighton, John Street, Bedford Row.	Application to be made, 25th November. Granted for 7 years.
„ 8	THOMAS HORNBY BIRLEY, of Manchester, assignee of John George Bodmer.	For certain improvements in machinery, tools, and apparatus for cutting, planing, drilling, and rolling metals and other substances. For England, (8070), 20th May, 1839; Scotland, 16th October, 1839.	Prolongation. *Lodged*, 6th Dec. 1852. *Referred*, 28th Dec. 1852. *Reported*, 1st Apr. 1853. *Approved*, 13th June 1853.	Petitioner: Milne. Opponents: Bower and Son, Chancery Lane.	Application to be made, 31st December. Granted for 5 years for part of Patent.
1853. No. 1	JAMES TEMPLETON, late of Paisley, and now of Glasgow, Carpet Manufacturer.	Machinery for a new and improved mode of manufacturing silk, cotton, woollen, and linen fabrics. For England, Wales, &c. (8169), 25th July, 1839; Scotland, 17th July, 1839.	Prolongation. *Lodged*, 31st Jan. 1853. *Referred*, 7th Feb. 1853. *Reported*, 16th June, 1853. *Approved*, 8th Aug. 1853.	Petitioner: Crowder and Maynard. Opponents: Reed, Langford, and Marsden.	Application to be made on 1st March 1853. Dismissed.
„ 2	JOHN ROBERTSON, of Emmett Street, Poplar, assignee of Rapson's Patent.	For improvements in steering ships or vessels. For England (8214), 9th September, 1839; Scotland, 4th August, 1840.	Prolongation. *Lodged*, 5th Mar. 1853. *Referred*, 11th Mar. 1853. *Reported*, 16th June, 1853. *Approved*, 8th Aug. 1853.	Petitioner: Parnell and Willaume, 34, New Broad Street.	Application for hearing, 6th April, 1853. Extended 3 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1853. No. 3	William Henry Hornby, William Kenworthy, Joseph Harrison, William Harrison, of Blackburn, Machine Maker.	For certain improvements in the machinery or apparatus for sizing and otherwise preparing cotton, wool, flax, and other warps for weaving. For England (6619), &c., 26th September, 1839; Ireland, 11th December, 1840.	Prolongation. *Lodged*, 24th Mar. 1853. *Referred*, 1st April, 1853. *Reported*, 16th June, 1853. *Approved*, 8th Aug. 1853.	Petitioners: Bower and Son. Opponent: Benham.	Application for hearing, 16th April, 1853. Withdrawn, but order made to dismiss with costs.
Special	Nicholas Schlumberger, of Guebwiller, department of Haut Rhin, France.	(7228) - - -	Petition to rescind Her Majesty's Order of the 3rd Feb. 1851, for extension of Gibson and Campbell's Patent. *Lodged*, 18th July, 1853. *Referred*, 8th Aug. 1853. *Reported*, 29th Nov. 1853. *Approved*, 29th Dec. 1853.	Petitioner: Capes and Stuart. Opponents: Evans and Clode.	Dismissed.
No. 4	William Milner, of Liverpool, Safe and Box Manufacturer, executor of Thomas Milner.	For certain improvements in boxes, safes, or other depositories for the protection of papers or other materials from fire. For England (8401), 26th February, 1840; Scotland, 8th September, 1840; Ireland, 29th October, 1840.	Prolongation. *Lodged*, 16th Aug. 1853. *Referred*, 19th Aug. 1853. *Reported*, 1st Feb. 1854. *Approved*, 18th Feb. 1854.	Petitioner: Capes and Stuart. Opponents: Norton and Son, New St., Bishopsgate Street.	Day of application, 14th September, 1853. Withdrawn. Order made as to costs.
„ 5	Charles Williams Allen, the Rev. Humphrey Allen, Richard Roy, Stephen Phillips, and Henry Morris Kempshead. (Williams' Patent.)	For improvements in the manufacture of woollen and other fabrics, or fabrics of which wool or fur form a principal component part, and in the machinery employed for effecting that object. For England (8387), 14th February, 1840; Scotland, 11th April, 1840; Ireland, 16th April, 1840.	Prolongation. *Lodged*, 18th Oct. 1853. *Referred*, 24th Oct. 1853. *Reported*, 1st Feb. 1854. *Approved*, 18th Feb. 1854.	Petitioners: R. and W. G. Roy. Opponents: Ridsdale and Craddock.	Day of application, 9th November, 1853. Granted for 5 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1853. No. 6	James Pillans Wilson and George Fergusson Wilson, of Vauxhall, co. Surrey, Managing Directors of Price's Patent Candle Company. (Aubé's Patent.)	For improvements in the preparation of wool for the manufacture of woollen and other stuffs, and in the process of obtaining the materials to be used for that purpose. For England, &c. (8496), 7th May, 1840.	Prolongation. *Lodged*, 1st Nov. 1853. *Referred*, 25th Nov. 1853. *Reported*, 8th Feb. 1854. *Approved*, 18th Feb. 1854.	Petitioners: Wilson, Harrison, and Co.	Day of application, 29th November, 1853. Dismissed.
„ 7	Theodore Jones, T. B. Jones, Anna Matilda Jones, Alfred Orlando Jones, and others. (Jones' Patent.)	For improvements in treating or operating upon farinaceous matters to obtain starch and other products, and in manufacturing starch. (8488), 30th April, 1840.	Prolongation. *Lodged*, 3rd Nov. 1853. *Referred*, 25th Nov. 1853. *Reported*, 8th Feb. 1854. *Approved*, 18th Feb. 1854.	Petitioners: Wilson, Harrison, and Bristows. Opponents: 1. George Chevallier, 166, Fleet Street. 2. Henry Johnson, 47, Lincoln's Inn Fields.	Day of application, 28th November, 1853. Dismissed, 100*l.* costs.
„ 8	Edmund Leach, of Rochdale, co. of Lancaster, Machine Maker.	For certain improvements in machinery or apparatus for carding, doubling, or preparing wool, cotton, silk, flax, and other fibrous substances. For England, Wales, &c. (8519), 28th May, 1840; Scotland, 28th December, 1840.	Prolongation. *Lodged*, 24th Nov. 1853. *Referred*, 25th Nov. 1853. *Reported*, 16th Feb. 1854. *Approved*, 18th Feb. 1854.	Petitioner: Benham.	Day of application, 22nd December 1853. Dismissed.
„ 9	Sir William Burnett, Kt., K.C.B. of Somerset House, co. of Middlesex.	For improvements in preserving animal and vegetable, woollen, and other fibrous substances from decay. For Scotland, 25th March, 1840; Ireland, 23rd May, 1840.	Prolongation. *Lodged*, 14th Dec. 1853. *Referred*, 29th Dec. 1853. *Reported*, 16th Feb. 1854. *Approved*, 18th Feb. 1854.	Petitioner: Robert Ellis, 2, Cowper'sCourt, Cornhill.	Day of application, 7th Jan. 1854. Scotch and Irish. Extended until the expiration of the new English Patent.
„ 10	Edward John Carpenter, 7, Bayswater Terrace, Captain, R.N.	For improvements in the application of machinery for assisting vessels in performing certain evolutions upon the water, especially tacking, veering, propelling, steering, casting, or winding or backing astern. For England, &c. (8545), 13th June, 1840.	Prolongation. *Lodged*, 29th Dec. 1853. *Referred*, 29th Dec. 1853. *Reported*, 31st Mar. 1854. *Approved*, 7th Apr. 1854.	Petitioner: Walker and Grant. Opponents: Few and Son.	Day of application, 24th January, 1854. Granted for 6 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1854.					
No. 1	Alexander Angus Croll, Richard Laming, William Daniel Owen, and Herman Dirs Mertens.	For certain improvements in the manufacture of gas for the purposes of illumination, and for the preparation or manufacture of materials to be used in the preparation of gas for the purpose of illumination. (8577), Dated 29th July, 1840.	Prolongation. *Lodged*, 9th Feb. 1854. *Referred*, 18th Feb. 1854.	Petitioners: Taylor and Mason, 15, Furnival's Inn. Opponents: 1. Shield and Harwood, 10, Clement's Lane. 2. John Curtis, Haberdashers' Hall. 3. Johnson, 47, Lincoln's Inn Fields.	Day of application, 24th March, 1854. Withdrawn.
„ 2	William Ryder, of Bolton, Roller and Spindle Maker.	For certain improved apparatus for forging, drawing, moulding, or forming spindles, rollers, bolts, and various other like articles in metal. For England, &c. (8835), 8th February, 1841.	Prolongation. *Lodged*, 15th May, 1854. *Referred*, 8th June, 1854. *Reported*, 1st Dec. 1854. *Approved*, 11th Dec. 1854.	Petitioner: Gregory and Faulkner, 1, Bedford Row. Opponents: Plucknett and Adams, 17, Lincoln's Inn Fields.	Day of application, 14th June, 1854. Dismissed.
„ 2A	Do. (Scotch Patent)	For Scotland, 21st June, 1841.	Prolongation. *Lodged*, 8th Aug. 1854. *Referred*, 11th Aug. 1854. *Reported*, 1st Dec. 1854. *Approved*, 11th Dec. 1854.	Petitioner: Gregory and Faulkner.	Day of application for Scotch Patent, 6th September. Dismissed.
„ 3	Charles Payne, of Belmont Place, Vauxhall, county Surrey, Gentleman.	For improvements in salting animal matters. For England (8658), 13th October, 1840; Scotland, 11th November, 1840; Ireland, 25th March, 1841.	Prolongation. *Lodged*, 29th May, 1854. *Referred*, 8th June, 1854. *Reported*, 12th July, 1854. *Approved*, 11th Aug. 1854.	Petitioner: Gough and Son, Craig's Court, Charing Cross.	Day of application, 22nd June, 1854. Granted for 5 years.
„ 4	William Henry Fox Talbot, of Lacock Abbey, County Wilts.	For improvements in obtaining pictures or representations of objects. For England (8842), 8th February, 1841.	Prolongation. *Lodged*, 3rd July, 1854. *Referred*, 3rd July, 1854.	Petitioner: Price and Bolton, 1, New Square, Lincoln's Inn. Opponents: Fry and Loxley	Day of application, 29th July, 1854. Abandoned.
„ 5	Edward Godson, of Aldersgate St., London, assignee of Edward Foard's Letters Patent.	For an improved method or improved methods of applying fuel to the fires or grates of steam engines, boilers, brewers' coppers, or other furnaces, as well also to the fire-places employed in domestic purposes, and generally to the supplying of fuel to furnaces or fire-places, in such a manner as to consume the smoke generally produced in such furnaces or fire-places. For England, &c. (8794), 16th January, 1841; Scotland, 16th July, 1841; Ireland, 28th August, 1841.	Prolongation. *Lodged*, 15th July, 1854. *Referred*, 11th Aug. 1854.	Petitioner: J. Wood, Falcon St., Aldersgate Street. Opponents: Jacques, Edwards, and Co., 8, Ely Place.	Day of application, 16th August, 1854. Abandoned.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1854. No. 6	EDWARD FOARD, of 39, Nicholas Street, Hoxton.	For an improved method or improved methods of applying fuel to the fire-places or grates of steam engine boilers, brewers' coppers, and other furnaces, as well also to the fire-places employed in domestic purposes, and generally to the supplying of fuel to furnaces or fire-places in such a manner as to consume the smoke generally produced in such furnaces or fire-places. For England (8794), 16th January, 1841; Scotland, 16th July, 1841; Ireland, 19th August, 1841.	Prolongation. *Lodged*, 21st July, 1854. *Referred*, 11th Aug. 1854. *Reported*, 10th Jan. 1855. *Approved*, 8th Feb. 1855.	Petitioner: Jacques Edwards and Co., 8, Ely Place. Opponent: Wood, 8, Falcon Street.	Day of application, 14th August. Granted for 6 years.
,, 7	Mrs. MARY HONIBALL, of Accacia Road, St. John's Wood.	For improvements in anchors (7774); extended, 18th August, 1852.	Confirmation. *Lodged*, 8th Aug. 1854. *Referred*, 11th Aug. 1854. *Reported*, 10th Feb. 1855. *Approved*, 28th Feb. 1855.	Petitioner: Watkins and Hooper. Opponents: Bower and Son.	Day of application, 29th August, 1854. Dismissed.
,, 8	GEORGE LOWE, of Finsbury Circus, London, Civil Engineer.	For improved methods of supplying gas under certain circumstances, and of improving its purity and illuminating powers. For England (8883), 16th March, 1841.	Prolongation. *Lodged*, 24th Oct. 1854. *Referred*, 14th Nov. 1854. *Reported*, 11th Jan. 1855. *Approved*, 8th Feb. 1855.	Petitioner: Sutton, Ommaney, and Prudence.	Day of application, 4th December, 1854. Granted for 5 years.
,, 9	GEORGE SHILLIBEER, 1 and 2, Commercial Place, City Road.	For improvements in the construction of hearses, mourning and other carriages. For England (9086), 20th September, 1841.	Prolongation. *Lodged*, 22nd Nov. 1854. *Referred*, 11th Dec. 1854. *Reported*, 2nd Feb. 1855. *Approved*, 8th Feb. 1885.	Petitioner: H. W. Shillibeer, 2, Great James St. Bedford Row.	Day of application, 20th December, 1854. Dismissed.
,, 10	THOMAS CLARK, of Marischal College, Aberdeen, Professor of Chemistry.	For a new mode of rendering certain waters (the water of the Thames being among the number) less impure and less hard for the supply and use of manufactories, villages, towns, and cities. For England, &c. (8875), 8th March, 1841.	Prolongation. *Lodged*, 19th Dec. 1854. *Referred*, 8th Feb. 1855. *Reported*, 10th Feb. 1855. *Approved*, 28th Feb. 1855.	Petitioner: Watkins and Hooper. Opponent: Chevalli r.	Day of application, 9th January, 1854. Granted 7 years.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1855. No. 1	Alphonse René le Mire de Normandy, of 67, Judd Street, Brunswick Square.	For improvements in the manufacture of soap. For England (9081), 8th September, 1841.	Prolongation. *Lodged*, 6th Mar. 1855. *Referred*, 10th Mar. 1855. *Reported*, 16th July, 1855. *Approved*, 21st July, 1855.	Petitioner: Fry and Loxley.	Day of application, 2nd April, 1855. Granted for 3 years.
„ 2	Frederick John Reed, of 59, Friday Street, Cheapside, Solicitor, Charles Foard, of the Stock Exchange, Stock Jobber, and Thomas Shepperson, of Dulwich Hill, Esquire. —(Juckes Patent.)	For improvements in furnaces or fireplaces. For England (9067), 4th September, 1841; Scotland, 8th December, 1841; Ireland, 21st April, 1842.	Prolongation. *Lodged*, 15th Mar. 1855. *Referred*, 31st Mar. 1855. *Reported*, 16th July, 1855. *Approved*, 21st July, 1855.	Petitioners: Reed, Langford, and Marsden, 59, Friday St. Opponent: Samuel H. Barrow.	Day of application, 12th April, 1855. Granted for 3 years.
„ 3	Alfred Jeffery, of Huntingdon Street, Islington, county of Middlesex.	For a new method of preparing masts, spars, and other wood for ship building and other purposes. For England (9323), 15th April, 1842; Scotland, 18th October, 1842.	Prolongation. *Lodged*, 18th Oct. 1855. *Referred*, 19th Oct. 1855. *Reported*, 1st Feb. 1856. *Approved*, 25th Feb. 1856.	Petitioner: Nelson and Wynn, 4, Cloak Lane.	Day of application, 17th November, 1855. Dismissed.
1856. No. 1	Joseph Whitworth, of Manchester, county of Lancaster, Engineer.	For certain improvement in machinery or apparatus for cleaning roads and which machinery is also applicable to other similar purposes. For England, &c. (9433), 2nd August, 1842; Scotland, 1st November, 1842; Ireland, 22nd March, 1843.	Prolongation. *Lodged*, 4th Feb. 1856. *Referred*, 25th Feb. 1856. *Reported*, 16th June, 1856. *Approved*, 24th June, 1856.	Petitioner: E. Atkinson, 22, Bouverie St., Fleet Street.	Day of application, 3rd March, 1856. Dismissed.
„ 2	John Lee, of Brunswick Street, Trinity Square, Southwark, Surrey.	For certain improvements in wheels and axle-trees to be used in railways and in machinery for stopping on or preventing carriages from running off railways. For England (9437), 3rd August, 1842.	Prolongation. *Lodged*, 7th Feb. 1856. *Referred*, 25th Feb. 1856. *Reported*, 16th June, 1856. *Approved*, 24th June, 1856.	Petitioner: Petitioner in person, Brunswick Street.	Day of application, 1st March, 1856. Granted for 5 years as regards railway breaks only.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1856. No. 3	JOHN THOMAS BETTS, WILLIAM BETTS, JAMES BETTS, and DANIEL BETTS, of Smithfield Bars, in the city of London, assignees of John Betts.	For improvements in covering and stopping the necks of bottles and other vessels. For England, &c. (9445), 11th August, 1842; Scotland, 12th January, 1843; Ireland, 24th December, 1842.	Prolongation. *Lodged*, 29th Feb. 1856. *Referred*, 4th April, 1856. *Reported*, 17th June, 1856. *Approved*, 24th June, 1856.	Petitioners: Bridges and Mason, 23, Red Lion Square. Opponents: 1. Walcot, Lloyd, and Chevallier, 73, Chancery Lane. 2. Do. do. 3. Charles Patrick, 89, Chancery Lane.	Day of application, 24th March, 1856. Dismissed.
„ 4	WILLIAM LONGMAID, of Victoria Cottage, Stoke Newington, Gentleman, THOMAS JULIAN PODE, of Plympton, county Devon, Surgeon, ALFRED KINGSTON, of Plymouth, Banker, and WILLIAM JOSEPH SQUARE, of the same place, Surgeon. — (Longmaid's Patent.)	For improvements in treating ores and other minerals, and in obtaining various products therefrom, certain parts of which improvements are applicable to the manufacture of alkali. For England, &c. (9496), 20th October, 1842; Scotland, 13th March, 1843; Ireland, 4th May, 1843.	Prolongation. *Lodged*, 12th Mar. 1856. *Referred*, 4th April, 1856. *Reported*, 19th June, 1856. *Approved*, 24th June, 1856.	Petitioners: Watkins and Hooper. Opponents: 1. Walcot, Lloyd, and Chevallier. 2. Dunn and Surtees.	Day of application, 5th April, 1856. Dismissed.
„ 5	THOMAS CARDWELL, late of Bombay, in the East Indies, but now of Manchester, county of Lancaster, Merchant.	For improvements in the construction of presses for compressing cotton and other articles. For England (9556), 15th December, 1842; Scotland, 9th December, 1842.	Prolongation. *Lodged*, 7th June, 1856. *Referred*, 24th June, 1856. *Reported*, 1st Dec. 1856. *Approved*, 29th Dec. 1856.	Petitioner: Watkins and Hooper. Opponents: Gregory and Co. (Withdrawn). Keightley & Co. (Withdrawn).	Day of application, 5th July, 1856. Dismissed.
„ 6	ARTHUR DUNN, of Dalston Terrace, East Dalston Green, in the county of Middlesex, Soap Manufacturer, JOHN JOHNSON, and THOMAS JOHNSON, of Runcorn, in the county of Chester, Soap Manufacturers, and GEORGE HEARN, of Short Street, Curtain Road, in the county of Middlesex. — (Dunn's Patent.)	For improvements in treating, purifying, and bleaching oils and fatty matters. For England, &c. (9682), 28th March, 1843. For improvements in treating, purifying, and bleaching oils and fatty matters, and making soap. For Scotland, 1st November, 1843; Ireland, 6th December, 1843.	Prolongation. *Lodged*, 27th Sept. 1856. *Referred*, 22nd Oct. 1856. *Reported*, 2nd Feb. 1857. *Approved*, 7th Feb. 1857.	Petitioners: Philpot and Greenhill, 49, Gracechurch Street.	Day of application, 30th October, 1856. Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1857. No. 1	WILLIAM SCOTT, of Ranelagh House, Fulham, county Middlesex, ARTHUR EDEN, of Candover House, Micheldever, county of Southampton, Trustees of and for the Patent Fuel Company, and FERDINAND CHAS. WARLICH, of 29, Argyle Street, King's Cross, county Middlesex. — (Warlich's Patent.)	For improvements in the manufacture of fuel. For England, 5th October, 1843; Scotland, 10th April, 1844; Ireland, 20th May, 1844.	Prolongation. *Lodged*, 2nd April, 1857. *Referred*, 2nd April, 1857. *Reported*, 22nd June, 1857. *Approved*, 25th June, 1857.	Petitioners; Wordsworth and Co., South Sea House.	Day of application, 30th April, 1857. Dismissed.
„ 2	ROBERT DAVISON, of 8, London Street, London, Civil Engineer.— (Davison and Symington's Patent.)	For a method of cleansing, purifying, and sweetening casks, vats, and other vessels. For England, (9924), 2nd November, 1843; Scotland, 1st July, 1844; Ireland, 26th September, 1844. Title of Scotch Patent:— "A method or methods of drying, seasoning, purifying, and hardening wood and other articles, either in a manufactured or unmanufactured state, parts of which are applicable for the preparation and desiccation of animal, vegetable, and mineral substances."	Prolongation. *Lodged*, 29th May, 1857. *Referred*, 25th June, 1857. *Reported*, 1st Aug. 1857. *Approved*, 27th Aug. 1857.	Petitioner: Thomas Clark, 3, Dean's Court, Doctors' Commons. Opponents: Bennet and Stark, 4, Furnival's Inn.	Day of application, 20th June, 1857. Dismissed.
„ 3.	CHARLES GOODYEAR, of Bernard Hill, Norwood, Surrey, India Rubber Manufacturer, and WILLIAM JUDSON, of New York, United States. — (Newton's Patent.)	For improvements in the manufacture of caoutchouc or india-rubber, and in manufacturing various fabrics, of which caoutchouc forms a component part. For England (10,027), 30th January, 1844; Scotland, 12th March, 1844.	Prolongation. *Lodged*, 9th June, 1857. *Referred*, 25th June, 1857.	Petitioners: Wilson & Bristows, 1, Copthall Buildings. Opponents: 1. Karslake, Furnival's Inn. 2. Alfred Jones, 15, Size Lane, Bucklersbury.	Day of application, 1st July, 1857. Withdrawn.
„ 4	JOHN FIELDING EMPSON, of Birmingham, county Warwick Button Manufacturer. — (Empson's Patent.)	For certain improvements in the construction and manufacture of buttons and other fastenings for dress. For England (10,019), 16th January, 1844.	Prolongation. *Lodged*, 19th June, 1857. *Referred*, 25th June, 1857. *Reported*, 26th Nov. 1857. *Approved*, 2nd Dec. 1857.	Petitioner: R. A. Parker, 19, Coleman Street. Opponents: 1. Chilton and Burton, 7, Chancery Lane. 2. Ditto.	Day of application, 18th July, 1857. Dismissed.

Year and No. of Application.	Name of Petitioner.	Nature of Invention, and No. and Date of Patent.	Object and Stages of Petition.	Names of Solicitors.	Observations.
1857. No. 5	PETER ROTHWELL JACKSON, of Salford, in the county of Lancaster, Esq. Engineer.	For certain improvements in the construction and manufacture of wheels, cylinders, hoops, and rollers, and in the machinery or apparatus connected therewith, and also improvements in steam valves. For England (10,073), 24th February, 1844; Scotland, 17th September, 1844; Ireland, 23rd October, 1844.	Prolongation. *Lodged*, 24th Sept. 1857. *Referred*, 4th Nov. 1857. *Reported*, 2nd Feb. 1858. *Approved*, 3rd Feb. 1858.	Petitioner: Gregory and Co. Bedford Row.	Day of application, 22nd October, 1857. Granted for 6 years on entering a Disclaimer for certain part of Patent.
1858. No. 1	JOHN WHITEHEAD, jun., of Elton, near Bury, county of Lancaster, Dyer and Finisher.	For certain improvements in the process of finishing fustian or beaverteens, satin tops, and other similar cotton fabrics. For England, &c. (10,290), 15th August, 1844.	Prolongation. *Lodged*, 13th Feb. 1858. *Referred*, 26th Feb. 1858. *Reported*, 14th June, 1858. *Approved*, 31st July, 1858.	Petitioner: Plucknett and Adams, 17, Lincoln's Inn Fields. Opponents: Milne and Co. Temple. Withdrawn.	Day of application, 15th March, 1858. Dismissed.
„ 2	JOHN FISHER, of Carrington, in the county of Nottingham, Lace Manufacturer. — (Fisher and Gibbon's Patent.)	For certain improvements in the manufacture of figured or ornamental lace or net, and other fabrics. For England, &c. (10,424), 7th December, 1844.	Prolongation. *Lodged*, 5th June, 1858. *Referred*, 5th June, 1858. *Reported*, 29th Nov. 1858. *Approved*, 11th Jan. 1859.	Petitioner: Hodgson & Burton, Salisbury Street, Strand. Opponents: 1. J. H. Johnson, 47, Lincoln's Inn Fields. 2. Wilson and Bristow, 1, Copthall Buildings. 3. Sharp, 150, Leadenhall Street.	Day of application, 5th July, 1858. Dismissed.
	JOHN FISHER, &c. (as above), Scotch and Irish Patents.	Patent as above. Scotland, 4th March, 1845; Ireland, 22nd April, 1845.	Prolongation. *Lodged*, 27th July, 1858. *Referred*, 31st July, 1858.	Petitioner: Hodgson & Burton, Salisbury Street, Strand,	Day of application, 25th August, 1858. Not proceeded with.

FOREIGN PATENTS.



BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 17th March, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 543 of this Journal.)

1. J. Bianchi, represented by J. Moscardini, of Brussels, for "A system of mountings whereby gas is prevented from escaping from the breech of breech-loading guns."—Dated 6th March, 1859.
2. H. Mignard, represented by H. Biebuyck, of Brussels, for "A sector with a stop."—Dated 6th September, 1858.
3. A. Barclay, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the means of obtaining and distributing electricity and magnetism."—Dated 5th February, 1859.—(English Patent, 28th January, 1859.)
4. G. Douha, of Brussels, for "Winter foot-coverings with double soles.'—Dated 21st February, 1859.
5. Hendrickx, of St. Josse-ten-Noode, for "A process for protecting stoves, fire-places, &c., from oxidation or wear and tear."—Dated 23rd February, 1859.
6. N. Hainaut, of Battignies, for "A piano with a phonographic apparatus."—Dated 24th February, 1859.
7. T. Restell, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to his breech-loading fire-arms and projectiles for the same."—Dated 24th February, 1859.—(Original Patent, 27th February, 1858.)
8. W. H. Bell, represented by H. Biebuyck, of Brussels, for an imported invention of "A self-acting system of capping fire-arms."—Dated 24th February, 1859.—(American Patent, 18th January, 1859.)
9. J. B. Falguière, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to his system of vertical millstones worked at a high speed."—Dated 24th February, 1859.—(Original Patent, 14th September, 1857.)
10. E. Roche, represented by H. Biebuyck, of Brussels, for an imported invention of "Hygienic cigaret-paper."—Dated 24th February, 1859.—(French Patent, 17th February, 1859.)
11. E. F. Evras, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of ladies' pages for dresses."—Dated 24th February, 1859.—(French Patent, 19th February, 1859.)
12. C. T. Moulan, of Flavion, for "A compass saw for sawing marble and rocks."—Dated 25th February, 1859.
13. Ed. Beckman-Olosson, represented by H. Biebuyck, of Brussels, for "Manufacture of so-called 'Hermetic graphite-mastic.'"—Dated 26th February, 1859.
14. W. Craft and Th. Wilson, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in drawers and breeches for rendering the same impervious."—Dated 26th February, 1859.—(English Patent, 14th January, 1859.)
15. W. Talbot, represented by J. Piddington, of Brussels, for an imported invention of "An improved apparatus for lowering boats from vessels."—Dated 26th February, 1859.
16. L. J. Vandecasteele, of Brussels, a Patent of Improvement for "Additions to his system of collars and harness."—Dated 26th February, 1859.
17. J. R. Bassete and A. E. Bateman, represented by Eng. Guillery, of Molenbeek St. Jean, for "Improvements in machines for making bolts and rivets."—Dated 28th February, 1859.
18. L. Le Chatelier, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Manufacture of alumina."—Dated 28th February, 1859.
19. G. Smith, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in breech-loading fire-arms and their cartridges.'—Dated 28th February, 1859.—(American Patent, 23rd June, 1857.)
20. L. Droissart, represented by O. Daillencourt, of Brussels, for an imported invention of "A manometer."—Dated 28th February, 1859.—(French Patent, 17th November, 1857.)
21. P. E. Fraissinet, represented by O. Daillencourt, of Brussels, for an imported invention of "A chambered tissue of iron ribbons."—Dated 28th February, 1859.—(French Patent, 1st February, 1859.)
22. L. Guérette, of Brussels, for "A system of bathing machines."—Dated 1st March, 1859.
23. A. A. Perier and Z. A. Possoz, represented by X. Raclot, of Brussels, for "Improvements in the manufacture of sugar."—Dated 1st March, 1859.
24. H. Henroz, represented by A. Servais, of Floreffe, for "Improvements in polishing and smoothing mirrors."—Dated 1st March, 1859.
25. M. Chatelain, represented by A. Vallée, of Ixelles, for an imported invention of "Improvements in brewing."—Dated 2nd March, 1859.
26. A. De Moor, of Koekelberg, for "Composing a kind of varnish."—Dated 3rd March, 1859.
27. A. De Moor, of Koekelberg, a Patent of Improvement for "Additions to his mode of composing

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

a kind of siccative."—Dated 3rd March, 1859.—(Original Patent, 26th May, 1858.)

28. L. Le Chatelier, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Applying acids obtained from fluor to the manufacture of soda and potash."—Dated 3rd March, 1859.—(Original Patent, 4th March, 1858.)

29, F. J. Imbs, represented by J. Piddington, of Brussels, for an imported invention of "Preparing and applying a kind of soles to boots and foot coverings in general."—Dated 3rd March, 1859.—(French Patent, 21st February, 1859.)

30. Mrs. J. E. S. Achet, represented by J. Piddington, of Brussels, for an imported invention of "A system of stopping horses."—Dated 3rd March, 1859.—(French Patent, 25th February, 1859.)

31. J. F. P. Hugonneng, represented by P. Bourson, of Brussels, for an imported invention of "An economical system of dyeing all kinds of fabrics with blue colours."—Dated 3rd March, 1859.

32. F. A. J. Jossart, of St. Josse-ten-Noode, for "A system of twilled gauze wire with a compensated resistance."—Dated 3rd March, 1859.

33. M. N. Colleye, of Hoignée, a Patent of Improvement for "Modifications in his system of fire-arms."—Dated 3rd March, 1859.—(Original Patent, 11th March, 1857.)

34. H. Henry Godart, of Châtelet, for "A machine for cutting tobacco."—Dated 3rd March, 1859.

35. M. J. Motte, of Marchienne-au-Pont, for "An economical system of building houses by means of vaults, without using timber."—Dated 5th March, 1859.

36. J. C. J. Lhôte, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "An apparatus for dosing Seltzer water and other gaseous beverages."—Dated 4th March, 1859.—(Original Patent, 8th September, 1858.)



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 22nd March, 1859, and each bearing that date.

No. 23,288. S. B. Batchelder, of Lowville, N.Y., for an "Improvement in scythe snaths."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of the hooks D, D, screw E, ring C, and plate B, with slot F and sliding block G, the whole being constructed for joint operation, in the manner herein set forth and described."

No. 23,289. Wm. Bray, of Folkstone, England, for an "Improvement in the wheels of traction engines."—Patented in England, 31st December, 1856.

"Having now described the nature of my invention, and in what manner the same is to be performed, I wish it to be understood that what I claim, is, constructing traction engines with driving wheels, with blades or teeth, which are capable of being protruded and withdrawn, substantially as herein-before described."

No. 23,290. Francis J. Bridges, of New York, N. Y., for an "Improved submarine telegraph cable."

"What I claim as my invention and improvement, is, the braided or plaited coat, covering, or layer, for conductors, cords, or cables for electric telegraphic purposes, as herein above set forth"

No. 23,291. Geo. Brodie, of Little Rock, Ark., for an "Improvement in metallic bands for baling."

"Having thus pointed out the nature of my invention, and how the same may be used in various modes with success, I will state what I claim as my invention, and wish to secure by Letters Patent, is, preparing the hoops or bands for tying before they are passed around the bale; by bending one or both ends of the hoops or bands, and placing in the inside of each band at suitable prepared metallic pin, similar to those I have already described, around which pins the bent end of the hoops are securely pressed, for the purpose of keeping the pins in place, and also making the ends of the hoops wider or thicker, as the shape of the connecting links used may require. I also claim forming the connecting links like those shown in Figures 4, 5, and 6. I also claim bending one or both ends of the hoop or band, as shewn in Figures 11 and 12, around the outer ends of the connecting link, thereby strengthening the ends of the link, preventing it turning or getting out of place and the tie from untying. I also claim making metallic hoops for binding bales with a tie on each side of the bale, for the uses and purpose before expressed. I also claim using strips of cloth, paper, or other suitable material under the metallic hoops, as shown in Figures 16 and 17, for the purpose described, substantially as herein set forth."

No. 23,292. Barnes Clayton, of Philadelphia, Pa., for an "Improved fastening for shirt studs, &c."

"I am aware that a fastening for studs has been used before, consisting of two vertically moving levers, turning upon pivots in the back piece, and jointed to a sliding stem on the front piece, so that by simply pushing the latter inward or pulling it outward, the said levers are caused to open or shut together accordingly, as in Wilcox's Patent, of April 14th, 1857; therefore, I do not claim such a combination of devices; but what I claim as new, and desire to secure by Letters Patent, is, a stud fastening, consisting of the stem (*e*) rigidly fixed to the piece (*d*) of the back part (B), the vertically moving lever plate (*f*) and the screw stem (*h*) fixed to the front or ornamental part (A), the same being constructed and arranged to operate together, as set forth, and for the purpose of fastening the stud in place, so that it cannot be pulled out or removed therefrom without first rotating the screw (*h*), as described."

No. 23,293. Elijah H. Danforth, of Jamestown, N. Y., for an "Improvement in adjustable dental swages."

"I am aware that compound dies, or dies composed of several pieces of metal clamped together, have been used for swaging sheet metal into form; and I, therefore, do not claim the compound swaging die; but I am not aware, that in swaging sheet metal for any purposes, the grooves of sheet metal have been filled with maleable metal, and then the sheet subjected to complete or final swaging; and what I therefore claim, is, forming the labial and the lingual curve of dental plates, for the inferior maxillary alveolar ridge by swaging it into form with the compound die and maleable plates in the curve of the plate, as herein set forth."

No. 23,294. Brutus de Villeroi, of Philadelphia, Pa., for an "Improved instrument for ascertaining the distance between itself and the target, without chaining."

"What I claim as my invention, and desire to secure by Letters Patent, is, the addition by means of a screw of a tube containing the lens, and is divided throughout its whole length by a vertical partition or diaphragm. At the extremity of this tube next the eye piece is placed a ring containing a bisected lens D, E, G, K, the two halves of which

are equally inclined on opposite sides of the vertical plane perpendicular to the axis of the telescope."

No. 23,295. HERMAN A. DOSTER, of Bethlehem, Pa., for an "Improvement in corn huskers."

"Having described my invention, I claim as new, and desire to secure by Letters Patent, the arrangement and combination of the lever D, with the adjustable roller A^1, so that when the roller A^1 is adjusted, the distance between the cam (*i*) and the fulcrum of the lever D, will be correspondently changed, as and for the purpose herein shown and described."

No. 23,296. JOHN L. FABER, senr., of South Hadley, Mass., for an "Improvement in weather strips."

"Having fully described my invention in its different modifications, what I claim therein as new, and desire to secure by Letters Patent, is, 1st, the bar G, in combination with the parallel vibrating links *a*, *a*, when said bar is so arranged as to fall by its own weight, and be forced against the door by the closing of the latter, as herein-before set forth. 2nd, the combined arrangement of the several strips and their attachments, to close up the frame sides of the door, as herein described."

No. 23,297. JOHN FITCH, of Seneca Falls, N.Y., for an "Improvement in filters."

"I do not claim the ordinary cask or tub filters with pot or reservoir, filled with charcoal or other filtering material, the same having been known and used. What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the cylinder B, constructed and partly filled, as described, with the outside case A, having the perforated plates and the filtering material disposed and arranged as described, by means of which the fluid to be filtered is made to pass through the filtering material for a greater distance, and a more perfect purification effected. I als obtain by the same combination, a convenient mode of cooling the fluid, and also of cleansing the filter, without deranging its parts, by means of reversing its action in the manner described, the whole constructed and operating in the manner and for the purposes above mentioned."

No. 23,298. R. B. FITTS, of Philadelphia, Pa., for an "Improvement in coffee-mills."

"Having thus fully described my invention, and pointed out its utility, I proceed to state, that I am aware that a single crushing cylinder has been employed before, in combination with a horizontal grinding cylinder, fitted with an adjustable shell or concave, the said crushing cylinder rotating at a slower speed than the grinding cylinder, for the purpose of crushing or grinding coffee; therefore I do not claim such a combination; but what I claim as new, and desire to secure by Letters Patent, is, the cylinders B, B, in combination with the grooved cylinder C, and its adjustable concave (D), the whole being constructed and arranged together beneath the hopper (A), so as to operate in the manner and for the purpose set forth and described."

No. 23,299. JACOB GEYSER, of Alleghany, Pa., for an "Improvement in fly wheels for rolling mill machinery."

"I do not claim any particular shape, or form, or material, for the construction of the rim of a fly wheel, great variations can be made in this respect; but I claim constructing the rim of a fly wheel hollow, with partitions, in such a manner that when the heavy materials are piled in, laid in concrete, it may be held stiff and steady, as described. I claim using any heavy and hard materials along with suitable cement, to fill up such a rim, when constructed and operating as and for the purpose described."

No. 23,300. EMANUEL HARMON, of Washington, D. C., for an "Improvement in letter envelopes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method or process of preparing letter envelopes, ready ruled in the process of manufacture, substantially in the manner and for the purpose herein-before set forth."

No. 23,301. JOHN HECKER and WM. HOTINE, of New York, N. Y., for an "Improved dough-rolling machine."

"We do not wish to be understood as making claim to the use of cylinders for rolling dough, as these have long since been applied to the rolling of dough; but what we do claim as our invention, and desire to secure by Letters Patent, is, the combination of an inclined endless apron for receiving and returning the dough, substantially as described, in combination with the cylinders for rolling the dough, substantially as described. We also claim, in the above combination, the curving in of the apron around the upper roller, or the equivalent thereof, substantially as described, for the purpose of returning the dough to the feed table, substantially as described, in combination with the cylinders for rolling the dough, as described. And we also claim the rotating screen, as described, in combination with the arrangement of cylinders for rolling and working the dough, substantially as and for the purposes described. And, finally, we claim, in combination with the rotating screen, as described, the hopper and apparatus therein, for insuring a regular supply of flour, as set forth."

No. 23,302. A. JAMINET, of St. Louis, Mo., for an "Improvement in filters."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, circulating the water to be filtered through tiers or courses of pipes arranged within a drum having a current of waste steam passing through it, and then passing said water into separators for further circulation, and for depriving it of mud and other foreign matters. 2nd, arranging the separators C, C^1, C^2, C^3, C^4, C^5, within the steam drum B. 3rd, making the apparatus self-cleansing at intervals by operating the valves at the bottom of the separators and filters by levers acted on by toothed discs, ratchet wheel, and pawl, or their equivalents, actuated by the automatic movement of the clear water trough in tipping or tilting to discharge, essentially as set forth. 4th, controlling the automatic discharging action of the clear-water trough by means of a flutterer or float arranged therein, and serving by connection with an unlocking lever a stop piece and catch or hook to hold the trough from prematurely tilting."

No. 23,303. JAMES LANCELOTT, of Cranston, R. I., for an "Improvement in making ornamental chains."

"I claim the method described of weaving a chain from sheet metal by forming the base of each link into a geometrical figure, and by bending each arm longitudinally at the same angle as one of the outer angles of the base, so that a cross bar on the extremity of the next preceding link shall, when bent down, bear against the angular side of two of the arms of the next succeeding link, and thereby enable the chain to withstand a strain nearly equal to the cohesive strength of the metal of which the links are formed."

No. 23,304. THOS. MACKENZIE and ALBERT TROCHSLER, of Boston, Mass., for a "Mode of marking and ornamenting paper."

"Having thus described our invention, we claim, and desire to secure by Letters Patent, as an improved article of manufacture, paper for writing, printing, and other purposes, having indelible marks or designs stamped thereon by condensing the fibers thereof by pressure, as herein shewn and described."

No. 23,305. CHAS. MANS, of Danville, Pa., for an "Improvement in motive power."

"I do not claim the use of wheels and pinions driven by weights, nor two wheels gearing into the opposite sides of a pinion or third wheel, in order to distribute the strain on the teeth, for these devices are known; but what I do claim as my invention is, the arrangement of the drums D, &c., wheels E, &c., pinions P, &c., fly wheel R, and sectional weights *w*, when the whole are combined and operated as described."

No. 23,306. JAMES H. MERRILL, of Baltimore, Md., for an "Improvement in breech-loading cannon."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, first, the combination of the breech piece and frame, so that the former may move back and forth, and have its bore raised up and lowered on the latter automatically, and fastened or locked, substantially as herein described. I also claim, in combination with the screw for running the breech piece forward and back, the mechanism for lowering and raising the rear of said breech piece, substantially as described."

No. 23,307. EZRA MILLER, of Janesville, Wis., for a "Post office hammer stamp."

"What I claim as my invention, and desire to secure by Letters Patent, is, a post office marking stamp, which has its handle running parallel, or nearly so, with its marking face or faces, substantially as and for the purposes set forth."

No. 23,308. J. J. PARKER, of Marietta, O., for an "Improved device for equalizing the tension of watch springs."

"What I claim as new, and desire to secure by Letters Patent, is, making and constructing a barreled cog-wheel

or drum, for time-pieces, or for other purposes, so as to equalise and regulate the power of a spring, in manner and form, as substantially set forth."

No. 23,309. S. E. Pettee, of Philadelphia, Pa., assignor to the North American Paper Bag and Envelope Manufacturing Company, of said Philadelphia, for an "Envelope."

"I am aware that an envelope has been made with a narrow fold at the side; but in that case the fold is carried down the sides of the back and flap, as well of the body of the envelope, and the fold of the back is pasted to that of the body, leaving a stiff projecting piece in the interior of the envelope, very inconvenient and objectionable, and totally useless and unnecessary, such a form I distinctly disclaim; but what I do claim, is, the form of envelope blank, herein described and represented, whether cut from a continuous roll of paper, or from separate sheets."

No. 23,310. James Powell, of Cincinnati, Ohio, for an "Improvement in faucets."

"I claim as new, and of my invention, and desire to secure by Letters Patent, the described arrangement of the cam F, flanges J and J^1, longitudinal slot *i*, and spurs K, combined and operating in the manner and for the purposes set forth."

No. 23,311. Treat T. Prosser, of Fon du Lac, Wis., for an "Improved rotary engine."

"What I claim as my invention, and desire to secure by Letters Patent, is, a wheel with a spiral passage diminishing, in size, from the centre to the periphery, in the manner and for the purpose substantially as described."

No. 23,312. Joseph Read, of Philadelphia, Pa.' for an "Improvement in heels for boots and shoes."

"I am aware that composition heels have been made and used before, but their construction and mode of application heretofore involved either an increase of weight over leather heels, or an objectionable difficulty in securing them properly in position on the boot or shoe, which has prevented their adoption by the trade. I therefore, do not claim, broadly, making composition heels for boots and shoes, nor do I claim the described mode of securing them to the soles; but having fully described their construction and the best mode of producing and applying them, what I claim as new, and desire to secure by Letters Patent, is, a composition heel for boots and shoes, consisting of the composition (A), molded into the form of a heel, with the concavity (*m*), in the upper side of the same, as described, and the leather 'lift' or bottom piece (B or B^1), in combination with the leather edge piece (*c*), applied and secured thereto, substantially as set forth, the said heel being adapted for subsequent application to a boot or shoe, as described, and for the purposes specified."

No. 23,313. Horace P. Russ, of San Francisco, Cal., for an "Improved amalgamator."

"What I claim as my invention, and desire to secure by Letters Patent, are, portable or movable cups or cones of copper, galvanized or amalgamated with quicksilver inside, or manufactured of other materials, such as wood, cast iron, &c. to be placed in holes in sluice boxes, or other apparatus used in mining for the precious metals, substantially as and for the purposes specified."

No. 23,314. L. B. Schäfer, of Baltimore, Md., for an "Improvement in pumps."

"I am aware that shear levers have been used in different machines, and I therefore do not claim any part of my ship pump separately and for itself. I claim the arrangement for operation together of the pump barrel A, shear C, link D, hand brake E, and piston rod I, substantially as and for the purpose herein set forth."

No. 23,315. John T. Schuffenecker, of Keokuk, Iowa, for an "Improvement in brick machines."

"I make no claim to the hopper of the machine, nor to the manner of grinding and working the clay; but what I do claim as my invention, and desire to secure by Letters Patent, is, 1st, I claim the safety openings D, in combination with the quadrant C, arranged and operating in the manner and for the purpose specified. 2nd, I claim the shutter B, operated by the fork R, spring S^1, and bar L, in the manner above represented. 3rd, I claim the manner of leveling the mortar in the moulds by means of the two scrapers A and A, A, as shown in the foregoing specification."

No. 23,316. David Shive, of Philadelphia, Pa., for an "Instrument for enlarging photographs."

"I do not claim broadly the use of an illuminating lens, in connection with a camera; but what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the illuminating lens (F), in the usually open end of a photographic camera, supported in connection with the adjustable paper holder (C) upon a stand (D), substantially as described, so as to operate in the manner and for the purposes specified."

No. 23,317. Wm. H. Smith, of Philadelphia, Pa., for an "Improvement in casting and annealing articles made of scoria."

"Having now described the nature of my invention, and shown the modes of carrying the same practically into effect, I wish it to be understood that I do not confine myself to the precise details herein described and represented, as various modifications can be made in the process and apparatus, without affecting, substantially, the principle of my invention; nor do I claim any of the processes and apparatus separately, except as stated below; what I claim, and desire to secure by Letters Patent, is, first, the construction and use of the horizontally revolving casting wheel B, for facilitating the casting of slug and similar mineral products. Second, the construction of an annealing chamber, having various modes of retaining and regulating the heat therein, viz., by a series of dampers, by the construction of grooves and troughs in the walls in connection with the flanges and dippers of the bed D, with or without the use of sand, by the devices at the ends of the wagons, and by the use of the ante-chambers, substantially as above described. Third, the use and combination of a series of rollers, with a traversing bed, substantially as described, for imprinting an entire pattern of different colored figures. Fourth, the construction and employment of segmental sliding moulds, as shewn, or of similar character, and the mode of arranging and working the same, substantially as described."

No. 23,318. James Spear, of Philadelphia, Pa., for an 'Improvement in gas burning stoves.

"What I claim, and wish to secure by Letters Patent, is, the combination of the sled E in the door frame F with the ring M and the cylinder B and the body of the stove A, as constructed in the manner and for the purpose set forth."

No. 23,319. Chas. F. Spencer, of Rochester, N. Y., for an "Improved carpet fastener."

"What I claim as my invention, and desire to secure by Letters Patent, is, a carpet fastener made of a single piece of plate metal of triangular or three-pointed form, one point *b* serving as the shank to be driven into the floor, another poit *d* as the hook for receiving the carpet, and the third point *a* as a head so shaped as to enable the fastener to be driven with facility into the floor, all substantially as herein specified."

No. 23,320. A. M. Sprague, of Mobile, Ala., for an "Improved apparatus for skimming the surface of the water in steam boilers."

"What I claim, and desire to secure by Letters Patent, is, the surface skimmer B, constructed, arranged, and operating substantially as and for the purpose of removing the sedimentary water from the upper water surface of steam boilers."

No. 23,321. Chas. E. Stevens, of New York, N. Y., for an "Improvement in car couplers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the yielding support within the mouth of the aperture of railway car boxes, with one or more blocks inside, and the annular flange outside the said boxes, when said parts are arranged in relation to each other, substantially as described, to effect the coupling of the boxes automatically by the action of straight links and locking bolts, in the manner specified herein, and for the purposes set forth."

No. 23,322. Edwin L. Swartwout, of Utica, N.Y., for an "Improved mode of fastening sheets of paper together."

"I am aware that metal plates have been used for fastening in various ways, in the construction of book clasps, carpet bags, harness, &c. I do not therefore claim, irrespective of construction, any such devices. But what I claim as my invention, and desire to secure by Letters Patent, is, the new and improved article of manufacture, the metallic clasp A, in combination with the perforated metal plate B, for fastening together legal and other documents, constructed as de-

scribed, in the manner and for the purpose, substantially as specified."

No. 23,323. Chas. Taylor, of Little Falls, N. Y., for an "Improvement in cheese press."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1, attaching the one end of the press bars (l, l,) to the bottom of the box (K) and the other end to the crank pin on the wheel (L), as herein set forth, whereby I am enabled to shorten the movements of the follower, and have an eccentrically operating press compactly arranged, as herein described. 2nd, I claim the spring bed piece (q) and the springs (P, P,) acting upon the wheel (L) on the extreme upward movement of the follower, and thus upholding the follower, as herein described."

No. 23,324. Nathan Thompson, of Bridgeport, Conn., for an "Improved paddle wheel."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination, in the manner herein shown and described, of the triangular floats D, with the arms C, to prevent the formation of the vacuum, the lifting of backwater, &c., as set forth."

No. 23,325. Louis Tilliers, of West Morrisania, N. Y., for an "Improved filter."

"Claim.—I am fully aware of the existence of what is known as the 'Phelpses Patent,' granted in 1855, in which the claim is for the use of discs for filtering purposes, formed of rolled wire gauze. I am also aware that charcoal and other materials I employ, are not new, for the same purposes; but I am not aware that an apparatus constructed in the peculiar manner mine is, has ever been known or used prior to my invention of the same. I therefore claim, and desire to secure by Letters Patent, a Hygienic purifier, constructed in the manner herein described, operated as described, and for the purpose set forth."

No. 23,326. Wm. Tucker, of Blackstone, Mass.' for an "Improved method of securing bits in the stock."

"I claim the application or arrangement of the screws d, e, and the segmental button g, with respect to the bit or boring tool socket, and to operate with or on the tool, substantially as specified."

No. 23,327. Wm. P. Valentine, of Fon du Lac, Wis., for an "Improved shingle machine."

"I do not intend to limit myself to the especia mechanical devices employed in my machine, as these may be somewhat varied and yet accomplish the same result. I am aware that small chisels have been placed upon the convex side of a thick saw flange, for the purpose of cutting away splinters, to prevent the latter from catching behind the spreader. I am also aware that shingle machines have been fed by hand at a varying rate of feed. Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is,—1. Varying the rate of feed by the mechanical means set forth, so as to feed the lumber to the saw more rapidly during the first half of a cut, when the saw has the highest velocity, and slower during the latter half of a cut, in order to keep the saw constantly at a uniform velocity. 2. I claim the use of the two carriages P and P^1, operating in the particular manner described, for the purpose of cutting alternately on both sides of the saw, thus keeping the saw constantly at work, and preventing the loss of time or power whilst the lumber is returning with the carriage to be ready for the next cut. 3. I do not claim the concavo-convex saw or the planes upon its surface, as separate mechanical devices; but I claim the concave saw and the planes, in combination with the saw carriage for giving rake to the saw, and for sawing and planing shingles at a single operation substantially as described. 4. I claim the arrangement of springs S, S, and S^1, S^1, the head blocks R, R, and R^1, R^1, and the spreaders C, C, and C^1, C^1, for alternately holding and dropping the shingle block, substantially as set forth."

No. 23,328. Benjn. C. Vanduzen, of Cincinnati, Ohio, for an "Improved machine for heading bolts."

"I am aware that toggles have been used for operating punches, dies, &c., and arranged in various ways, and I therefore do not claim broadly, the use of toggles for operating the heading die F and die J; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the adjustable spring fork rod G, lever H, upper lever (b), and heading die F, substantially as herein shown and described, for the purpose of regulating the movements of the lever H, and die F, and controlling the size given to the head of the bolt."

No. 23,329. Haskel Walker, of Hartford, Vermont, assignor to himself and Benjn. Driggs, of Fairlle, Vermont, for an "Improved odometer."

"Having thus fully described my improved odometer, what I claim therein as new, and desire to secure by Letters Patent, is, the peculiar arrangement of the parts thereof, by which an actuating tooth upon the hub of one of the wheels of a carriage, will cause each revolution of said wheel to unerringly impart a small portion of a revolution to the shaft K of the odometer, whilst the spring l by its action against the faces of the angular portion of said shaft, will accurately govern and control the movements thereof, substantially as herein set forth."

No. 23,330. Wm. A. Wilson, of Berlin Falls, N.H., for an "Improved construction of saw teeth."

"Having thus described my improvements, I claim combining the planing with the sawing tooth, so that the cutting edge of the former shall be in rear of, and at about right angles to the back of the latter having the throat between, as set forth and shown herein-before."

No. 23,331. Wm. Wood, of Hartford, Conn., for an "Improvement in brick machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arms B, B, in combination with the slides A, A, provided with the lever C^1, and tappet c, for operating the molds M^1 as described."

No. 23,332. Lewis E. Clow, of Albany, N. Y., assignor to S. H. Ransom and Co., of same place, for an "Improvement in pot-hole covers for cooking stoves."

"I claim a cover or division plate, constructed of two perforated plates, and the unperforated rim or ring, as herein set forth."

No. 23,333. Joseph Davenport, of Masillon, Ohio, assignor to himself and C. M. Russell, of said Masillon, for an "Improvement in iron railroad cars."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination with the platform or bottom of a railroad car, of a laterally and longitudinally supporting truss brace, when said brace consists of a four-sided frame s, s, t, t, a series of transverse ties B, and transverse diagonal braces C, C, a central longitudinal skeleton or diagonally braced girder A, c, d, b, b, and bearing plates or shoes D, D, g, g, substantially as and for the purposes set forth."

No. 23,334. W. P. Goolman, of Dublin, Ind., assignor to himself, Saml. B. Morris, and W. Hollingsworth, of same place, for an "Improvement in mole plough."

"I claim as new, and of my invention, and desire to secure by Letters Patent, the arrangement substantially as set forth, of devices for producing or preventing lateral curves in a drain, by adjusting the presentation of the mole, independently of the point of draft."

No. 23,335. Darius Wellington, of Boston, Mass., assignor to Chas. A. Wellington, of same place, for an "Improved water closet."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the hollow valve rod F, perforated at (d, d), cap G, basin B, pipe H, tube H^1, and reservoir I, as and for the purpose herein shown and described."

Designs.

David Hathaway, of Troy, N. Y., assignor to Fuller, Warren, and Co., of said Troy, for a "Design for parlor cook's stove"

"What I claim as my invention or production, and desire to secure by Letters Patent, is, the ornamental design for a parlor cook stove herein described and represented in the annexed photographic drawing."

A. C. Barstow, of Providence, R. I., for a "Design for cook's stove."

"What I claim as my invention or production, and desire to have secured to me by Letters Patent, is, the new design for the side plate of a cooking stove, consisting of the orna-

mental configurations herein described and represented in the drawings."

Additional Improvements.

Oliver Robinson, of Rochester, N. Y., for an "Improved bedstead fastening."—Patented 28th December, 1858.—Additional Improvement, dated 22nd March, 1859.

"What I claim as new, and desire to secure by Letters Patent, is, constructing the locking bolt A, of a flat or rectangular form, so as to work against the surface of the side board C, to obviate the reducing of the bearing surface of the recess of the wrench B, and hold the parts to the required position without the usual guide pin, substantially as described. I also claim elevating the hook *j*, above a right line through the center of the bolt A, substantially as and for the purpose set forth. I also claim uniting the point *i* of the circular wedge with the stock of the wrench, whereby greater strength and a better adaptation to the recess or seat of the same is secured, substantially as described. I further claim adapting the cam *l*, or raised part of the wrench lever to pushing and holding forward the bolt for ready connection with the pin *f*, substantially in the manner herein described."

James Spear, of Philadelphia, Pa., for an "Improved rail road car stoves."—Patented 1st June, 1858. — Additional improvement, dated 22nd March, 1859.

"What I claim, and wish to secure by Letters Patent, is, the combination of the openings A in the side plate F, with the back fire plate B in connecting tube C, with the center plates D and E, constructed and combined in the manner and for the purpose set forth. Second, I claim the openings f, f^1, in side plate F, with the center plate E^1, constructed in the manner and for the purpose set forth. Third, I claim the flue or opening L, L_2 from the front plate H to the top plate I, constructed in the manner and for the purpose set forth."

James Spear, of Philadelphia, Pa., for an "Improvement in cooking stoves." — Patented 7th July, 1857.—Additional improvement, dated 22nd March, 1859.

"What I claim, and wish to secure by Letters Patent, in addition to my former Patent, is, 1st, I claim the combination of the cone damper J, with the smoke pipe H, and the top plate D, constructed in the manner and for the purpose set forth. 2d, I claim the combination of the head or deck collar L, with the cold air pipe G and the smoke pipe H, constructed in the manner and for the purpose set forth."

Jonas Simmons, of Cohoes, N. Y., for an "Improved machine for making axes."—Patented 1st March, 1853.—Additional improvement, dated 22nd March, 1859.

"What I claim, and desire to secure by Letters Patent, is, the groove G, the arm X, with the tongs T or T^2, in combination with each other, substantially in the manner and form, and for the purposes set forth in the within specification."

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THE

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Notices to Proceed.

NOTICE is hereby given, that

2707. GEORGE OATES, of Gatefield Works, Sheffield, in the county of York, Scissors Manufacturer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the manufacture of scissors."—A communication.

As set forth in his petition, recorded in the said office on the 29th day of November, 1858.

2725. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new rail-road with continued supports splintered together without any wood being used."—A communication from Leon Barroux.

2733. And JOSEPH COLVER, of Leman Street, in the county of Middlesex, Cooper and Back Maker, has given the like notice in respect of the invention of "Improvements in machinery and apparatus for cutting and shaping staves and other parts of casks."

As set forth in their respective petitions, both recorded in the said office on the 30th day of November, 1858.

2744. And HENRY ADCOCK, of the City Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in furnaces and apparatus for annealing wire."

2745. And FREDERICK WARNER, of Jewin Street, in the city of London, JOHN DERBYSHIRE, of Longton, in the county of Stafford, and ALEXANDER MANN, of Little Britain, in the city of London, have given the like notice in respect of the invention of "An improvement in the manufacture of cocks or taps."

2747. And HENRY BESSEMER, of 4, Queen Street Place, New Cannon Street, in the city of London, has given the like notice in respect of the invention of "Improvements in railway and other wheels and wheel tyres."

2748. And SAMUEL NEWINGTON, of Ticehurst, in the county of Sussex, has given the like notice in respect of the invention of "Improvements in agricultural implements."

2749. And ANN ELIZABETH DAVIS, of 1, Pulboro' Place, Harleyford Road, Vauxhall, and RICHARD WRIGHT, of 28, Grosvenor Park, Camberwell, both in the county of Surrey, have given the like notice in respect of the invention of "Improvements in the manufacture of colouring matter for spirits and other liquids."

As set forth in their respective petitions, all recorded in the said office on the 1st day of December, 1858.

2759. And JOHN BAILLIE, of Vienna, in the empire of Austria, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of railway wheels."

As set forth in his petition, recorded in the said office on the 2nd day of December, 1858.

2765. And SAMUEL PETERS, of No. 12, Rue de la Briche, St. Denis, near Paris, Mechanic, has given the like notice in respect of the invention of "Improvements in the manufacture of pipes and tubes, and in the apparatus employed therein."

As set forth in his petition, recorded in the said office on the 3rd day of December, 1858.

2771. And JOHN CAMERON, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for the manufacture of sugar."

2772. And Robert Legg, Millwright and Engineer, of No. 11, Ashby Street, Clerkenwell, in the county of Middlesex, has given the like notice in respect of the invention of "A machine for combining the operation of compressing and cutting tobacco during the process of manufacture."

As set forth in their respective petitions, both recorded in the said office on the 4th day of December, 1858.

2794. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of gloves."—A communication from Messrs. A. and L. Fontaine, residing at Paris.

2796. And Edward Watkin Scale, of Merthyr Tydvil, in the county of Glamorganshire, South Wales, Agent and Contractor, has given the like notice in respect of the invention of "Improvements in railway and other breaks."

As set forth in their respective petitions, both recorded in the said office on the 6th day of December, 1858.

2807. And Stephen Williams Pugh, of Nelson Square, Commercial Road, New Peckham, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in obtaining and purifying naphtha paraffine and other oils, and also spirits."

As set forth in his petition, recorded in the said office on the 7th day of December, 1858.

2820. And John Barrow, jun., of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in the treatment of coal gas tar, and of the oils obtained by the distillation of the same, and for the application of substances obtained thereby."

2822. And Joseph Eccles, of Blackburn, in the county of Lancaster, Cotton Manufacturer, has given the like notice in respect of the invention of "Improvements in arrangements and machinery for preparing for manufacture, and for manufacturing clay and other plastic earths into bricks, tiles, pipes, and other articles, formed of such materials."

2827. And Thomas Allen, of Clifton, Bristol, Ironmonger, has given the like notice in respect of the invention of "Improvements in folding bedsteads."

2828. And John Wilson, of Wansford, Northamptonshire, has given the like notice in respect of the invention of "Improvements in machinery for tilling and cultivating land."

As set forth in their respective petitions, all recorded in the said office on the 9th day of December, 1858.

2849. And Alexander Rollason, of Birmingham, in the county of Warwick, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of waterproof tissues, and in applying such waterproof material to woven fabrics and manufactured fibrous goods."

As set forth in his petition, recorded in the said office on the 11th day of December, 1858.

2855. And Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in twisting and otherwise operating upon threads, twine, or cords, and in apparatus for performing the same."—A communication from Messrs. Edmond Empis and Co., residing at Wazemines, near Lille, France.

As set forth in his petition, recorded in the said office on the 13th day of December, 1858.

2863. And George Williams Baker, of Park Farm, Woburn, in the county of Bedford, Farm Steward, has given the like notice in respect of the invention of "An improved construction of manger fastening."

2864. And Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "An improvement in transmitting electric telegraph signals."—A communication from T. A. M. Sortais, residing at Lisieux, France.

As set forth in their respective petitions, both recorded in the said office on the 14th day of December, 1858.

2869. And Henry Bridges, of Bridgewater, in the county of Somerset, Railway Carriage Builder, has given the like notice in respect of the invention of "Improvements in the means of working breaks on carriages on railways."

2872. And Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved arrangement of condensing apparatus."—A communication.

2873. And John Bullough, of Blackburn, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Improvements in looms."

As set forth in their respective petitions, all recorded in the said office on the 15th day of December, 1858.

2880. And Robert Wilson, senior, and Robert Wilson, junior, of Livesey Street, Manchester, in the county of Lancaster, have given the like notice in respect of the invention of "Certain improvements in the preparation of leather, in combination with india rubber and other materials, for the manufacturing of hose pipes, and and other purposes where leather is required to be impervious to water, steam, or frost."

As set forth in their petition, recorded in the said office on the 16th day of December, 1858.

2961. And Claude Mamès Augustin Marion, of Paris, in the empire of France, Manufacturer, has given the like notice in respect of the invention of "An improved box or case for containing and preserving sensitive photographic paper, called 'Marion's Box.'"
As set forth in his petition, recorded in the said office on the 27th day of December, 1858.

2972. And William Haworth, of the firm of Firth and Haworth, Cotton Spinners and Manufacturers, of that part of Todmorden which is in the county of York, and William Barker, of the same place, Overlooker, have given the like notice in respect of the invention of "Improvements in the top clearers of machines for spinning."

2977. And Thomas Pickford, of No. 15, Mark Lane, in the city of London, Merchant, has given the like notice in respect of the invention of "Improvements in the preparation and manufacture of manure."
As set forth in their respective petitions, both recorded in the said office on the 29th day of December, 1858.

55. And George Kennedy Geyelin, Civil Engineer, of London, has given the like notice in respect of the invention of "Regulating gas burners, which he calls the Universal Gas Burners Regulator."
As set forth in his petition, recorded in the said office on the 7th day of January, 1859.

64. And Frederick Versmann and Alphons Oppenheim, of Bury Court, St. Mary Axe, in the city of London Analytical Chemists, have given the like notice in respect of the invention of "Improvements in the treatment of various substances by which to render the same uninflammable."
As set forth in their petition, recorded in the said office on the 8th day of January, 1859.

80. And Charles Middleton Kernot, of Gloucester House, West Cowes, Isle of Wight, in the county of Southampton, Doctor of Medicine, Doctor of Laws and Logic, Doctor of Philosophy, and Member of the Royal College of Surgeons, England, etc., has given the like notice in respect of the invention of "Improvements in purifying and decolorising paraffine, and rendering the same white, hard, and sweet."

88. And Frederick Versmann and Alphons Oppenheim, of Bury Court, St. Mary-Axe, in the city of London, Analytical Chemists, have given the like notice in respect of the invention of "Improvements in rendering fabrics and substances non-inflammable."
As set forth in their respective petitions, both recorded in the said office on the 11th day of January, 1859.

222. And Henry Owen, of Portswood, Southampton, in the county of Hampshire, has given the like notice in respect of the invention of "Improvements in stockings."
As set forth in his petition, recorded in the said office on the 24th day of January, 1859.

518. And Frederick Weekes, of Bolney, in the county of Sussex, has given the like notice in respect of the invention of "The treatment of certain alcoholic products."
As set forth in his petition, recorded in the said office on the 26th day of February, 1859.

644. And David Joy, of Leeds, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in hydraulic engines and meters."

645. And Charles Henry Hurst, of Victoria Terrace, Royal Road, Kennington Park, in the county of Surrey, has given the like notice in respect of the invention of "An improved wrench or spanner."
As set forth in their respective petitions, both recorded in the said office on the 14th day of March, 1859.

694. And John Wallace Duncan, of Grove End Road, St. John's Wood, and James Eglinton Anderson Gwynne, of Hanover Terrace, Regent's Park, both in the county of Middlesex, Gentlemen, have given the like notice in respect of the invention of "Improvements in, or connected with, apparatus for the generation, application, and condensation of steam, part of which apparatus or arrangements is applicable to other purposes."
As set forth in their petition, recorded in the said office on the 18th day of March, 1859.

707. And William Haggett, of Sherborne, in the county of Dorset, Architect and Surveyor, has given the like notice in respect of the invention of "An improved method of treating metals and other materials to increase their strength."

710. And Robert Whittaker, of Lennox Mill, in the county of Stirling, North Britain, Millwright, has given the like notice in respect of the invention of "Improvements in the manufacture or construction of metallic rollers or cylinders and mandrills for printing."

716. And William Warne, John Americus Fanshawe, James Archibald Jaques, and Thomas Galpin, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, have given the like notice in respect of the invention of "An improved compound or preparation of materials for, and mode of covering and insulating wires or conductors used for telegraphic or electrical purposes."
As set forth in their respective petitions, all recorded in the said office on the 21st day of March, 1859.

737. And Samuel Clarke, of Albany Street, Regent's Park, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of candles."
As set forth in his petition, recorded in the said office on the 23rd day of March, 1859.

747. And William Garforth and James Garforth, both of Dukinfield, in the county of Chester, Engineers, have given the like notice in

respect of the invention of "A certain improvement in metallic pistons."

As set forth in their petition, recorded in the said office on the 24th day of March, 1859.

761. And GEORGE HASELTINE, Gentleman, of Washington, in the District of Columbia, United States of America, now of No. 37, King Street, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of small metallic chains."—A communication from Edwin H. Perry, of Rhode Island, United States.

As set forth in his petition, recorded in the said office on the 26th day of March, 1859.

780. And WILLIAM MOSSMAN, of No. 50, Cumming Street, Pentonville, in the parish of Clerkenwell, in the county of Middlesex, Manufacturing Stationer, has given the like notice in respect of the invention of "Improvements in machinery applied to embossing or cutting presses, for the better and more expeditious manner of manufacturing ornamental cut out and embossed work, in paper, leather, parchment, cloth, foil, and other material."

As set forth in his petition, recorded in the said office on the 29th day of March, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of LETTERS PATENT which passed the Great Seal on the

12*th April*, 1859.

2274. GEORGE BEADON, of Bathpool, in the county of Somerset, Captain in the Royal Navy, for an invention of "Improvements in the construction of ships, boats, rafts, and vessels for passing through water or through the atmosphere, or partly through the water and partly through the atmosphere."—Dated 12th October, 1858.

2275. JEAN ALEXANDRE GASSE, of Paris, in the empire of France, Merchant, for an invention of "Improvements in railway breaks and in apparatus for working the same."—Dated 12th October, 1858.

2283. ANTON BENDA, of 79, Basinghall Street, in the city of London, Importer of Foreign Goods, for an invention of "Improvements in the manufacture of models of the human and other figures to be used as toys for tuition and for other purposes."—A communication from a Foreigner residing abroad.—Dated 13th October, 1858.

2285. JOHN CHARLES OLLERENSHAW, of Manchester, in the county of Lancaster, Merchant, for an invention of "An improvement in cotton gins."—A communication from Lewis S. Chichester, of New York, U.S.A.—Dated 14th October, 1858.

2288. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for an invention of "Improvements in the manufacture of articles of hard vulcanized india rubber and gutta percha and similar gums."—A communication from Gustavus Cuppers, residing at College Point in Long Island, in the state of New York, in the United States of America.—Dated 14th October, 1858.

2293. SAMUEL PERKES, of Clapham, for an invention of "Improvements in machinery for extracting oil from the cocoa nut and other vegetable matters."—Dated 14th October, 1858.

2295. GEORGE BAXTER, of Northampton Square, in the county of Middlesex, for an invention of "Improvements in colouring photographic pictures."—Dated 14th October, 1858.

2297. SQUIRE DIGGLE, of Radcliffe, in the county of Lancaster, Machine Maker, for an invention of "Improvements in looms for weaving."—Dated 14th October, 1858.

2300. ROBERT RAYNSFORD JACKSON, of Blackburn, in the county of Lancaster, Cotton Spinner, for an invention of "Certain improvements in machinery or apparatus for sizeing yarn."—Dated 15th October, 1858.

2302. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "Improvements in the manufacture of gloves, and in the apparatus employed therein."—A communication from a Foreigner residing abroad.—Dated 15th October, 1858.

2309. FIRMIN JOSEPH COULON and SIMON GODEFROID GIRAUD, of 2, Rue Sainte Appoline, Paris (empire of France), and of 45, Essex Street, Strand, London, for an invention of "Improvements in the process of ornamenting skin and leather."—Dated 16th October, 1858.

2316. ARTHUR DUNN, of 1, Dalston Terrace, East, in the county of Middlesex, Fancy Soap Maker, for an invention of "An improvement in preparing marking compounds to be used on linen and other fabrics."—Dated 16th October, 1858.

2378. JOHN ROBB, of Aberdeen, in the county of Aberdeen, North Britain, Merchant, for an invention of "Improvements in propellers for ships and boats."—Dated 25th October, 1858.

2385. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for pulverizing, kneading, pressing, and moulding clay and other plastic materials."—Dated 26th October, 1858.

2750. FREDERIC FINCHAM, of Ravenhead, in the county of Lancaster, Esquire, for an invention of "Improvements in the construction of annealing kilns or ovens."—Dated 1st December, 1858.

95. Joseph Gibbons, of No. 345, Oxford Street, in the county of Middlesex, for an invention of "Improvements in fixing door and other knobs." —Dated 12th January, 1859.

280. Joseph Grimond, of the city of Manchester, in the county of Lancaster, Manufacturer, for an invention of "Improvements in the manufacture of hearth rugs."—Dated 1st February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 9th April*, 1859, *inclusive.*)

7th April.

884. Robert Richardson, of Great George Street, Westminster, in the county of Middlesex, for an invention of "Improvements in railway switches." —Dated 14th April, 1856.

8th April.

888. Joseph Barrans, of New Cross, Deptford, in the county of Kent, for an invention of "Improvements in constructing steam-engines." — Dated 14th April, 1856.

948. James Nasmyth, of Patricroft, near Manchester, in the county of Lancaster, Engineer, and Herbert Minton, of Stoke-upon-Trent, in the county of Stafford, China Manufacturer, for an invention of "Certain improvements in machinery or apparatus employed in manufacturing tiles, bricks, and other articles, from pulverized clay."—Dated 21st April, 1856.

973. William Peacock Savage, of Roxham, in the county of Norfolk, Farmer, for an invention of "A machine for drilling and rolling land."—Dated 23rd April, 1856.

9th April.

892. Leonard Kaberry, of Rochdale, in the county of Lancaster, Manager, and Aaron Horsefield, of the same place, Moulder, for an invention of "Improvements in moulding for casting certain parts of machinery used in the preparation and spinning of cotton and other fibrous materials."—Dated 14th April, 1856.

Errata in Journal of 8th April.

720. For "in metallic pens" read "on metallic pens."

748. For "Great Hampton" read "Great Hampton Street."

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Inventions and of Importation Delivered on the 24th and 31st March, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 549 of this Journal.)

1. C. Robardet, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of iron Venetian blinds." — Dated 4th March, 1859.—(French Patent, 22nd June, 1858.)

2. J. Perier, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of tie-pieces of fire-places of locomotives." — Dated 4th March, 1859.—(French Patent, 11th January, 1859.)

3. P. J. Richir, of Gilly, for "An apparatus for stopping carriages on inclined planes of railways in mines, &c."—Dated 7th March, 1859.

4. Ph. D. Margesson, represented by V. Sainthill, of Brussels, for an imported invention of "Improvements in the treatment of sugar canes."— Dated 5th March, 1859.—(English Patent, 31st August, 1858.)

5. Ed. Pesier, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "Using alcohol for removing extraneous substances in the manufacture of sugar."—Dated 5th March, 1859.— (French Patent, 27th February, 1859.)

6. H. S. Lansing, H. Savage-North, and Ed. Savage, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in fire-arms."—Dated 5th March, 1859.—(French Patent, 3rd August, 1857.)

7. C. A. Dandraut, represented by C. Lahaye, of St. Josse-ten-Noode, a Patent of Improvement for "Additions to his process of preserving alimentary substances and organic matter in general."—Dated 5th March, 1859.

8. L. J. Ficheroulle, of Farciennes, for "A parachute of mines."—Dated 7th March, 1859.

9. L. J. Bernard, of Huy, for "An apparatus for extracting oil and water from the steam issuing from engines."—Dated 7th March, 1859,

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

10. J. Bessens, of Herstal, for "A system of fastenings for lever or spring guns."—Dated 7th March, 1859.

11. Leclercq Brothers and Lardinois, of Liége, for "A system of guns with moveable barrels."—Dated 7th March, 1859.

12. P. J. Malherbe, of Tilleur, for "An apparatus for ventilating mines."—Dated 7th March, 1859.

13. H. Dandoy, A. Dandoy, and G. Lavallée-Poussin, of Namur, for "A mode of distilling gas at a high pressure."—Dated 5th March, 1859.

14. J. D. Brabazon, represented by A. Anoul, of Ixelles, for an imported invention of "Using sails as a motor for screws and other propellers of ships."—Dated 7th March, 1859.—(English Patent, 28th August, 1858.)

15. W. Ralston, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in goffering and finishing tissues, and also in machines and apparatuses used thereat."—Dated 8th March, 1859.—(English Patent, 24th November, 1858.)

16. V. Oudinot and A. Delarbre, represented by H. Biebuyck, of Brussels, for "Manure."—Dated 8th March, 1859.

17. J. Eason, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in apparatus for tanning and dyeing."—Dated 8th March, 1859.—(English Patent, 16th February, 1859.)

18. A. Boillot, represented by A. Picard, of Brussels, for "A composition, called 'Japanese wax.'"—Dated 8th March, 1859.

19. A. Jumelais, represented by A. Picard, of Brussels, for an imported invention of "A motor of illimited power, obtained from the permanent pressure of air."—Dated 8th March, 1859.—(French Patent, 16th October, 1857.)

20. Paignon and J. Vandaux, represented by A. Picard, of Brussels, for an imported invention of "A motor worked by air, which is alternately heated and cooled."—Dated 8th March, 1859.—(French Patent, 3rd March, 1859.)

21. J. Rival, represented by J. N. Herremans, of Brussels, a Patent of Improvement for "A modification of his manometer."—Dated 10th March, 1859.—(Original Patent, 17th December, 1857.)

22. A. Quidde and H. Von Langen, represented by De de Vos-Verraert, of Brussels, for "A means of preventing incrustations of steam boilers."—Dated 9th March, 1859.

23. P. E. Aimont, of Brussels, for "An apparatus for preventing the breakage of syphons or bottles in the manufacture of Seltzer water or other liquids."—Dated 9th March, 1859.

24. P. E. Aimont, of Brussels, for "An arrangement in cutters and punches with beams."—Dated 9th March, 1859.

25. P. E. Aimont, of Brussels, for "A system of carriages or vehicles with independent wheels and rails attached thereto."—Dated 9th March, 1859.

26. P. E. Aimont, of Brussels, for "A safety indicator on railways."—Dated 9th March, 1859.

27. V. Delperdange, of Schaerbeek, for "A system of reflectors for lanterns or street lamps."—Dated 9th March, 1859.

28. P. Vandervoorde, of Lokeren, for "An apparatus for feeding boilers with chemical substances."—Dated 8th March, 1859.

29. L. Leprince, represented by X. Raclot, of Brussels, for an imported invention of "A kind of transparent shoes and half-boots for ladies."—Dated 11th March, 1859.—(English Patent, 21st January, 1859.)

30. A. Jouan, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for manufacturing sugar, and for other chemical purposes."—Dated 11th March, 1859.—(American Patent, 25th January, 1859.)

31. L. de Dax, represented by H. Bieubyck, of Brussels, for an imported invention of "Improvements in the manufacture of fire-arms."—Dated 11th March, 1859.—(French Patent, 8th January, 1859.)

32. J. Romiguière, represented by O. Daillencourt, of Brussels, for an imported invention of "A process for preserving young tobacco plants."—Dated 11th March, 1859.—(French Patent, 2nd January, 1858.)

33. E. C. Martin, represented by O. Daillencourt, of Brussels, a Patent of Improvement for "Additions to his processes for purifying natural phosphate of lime."—Dated 11th March, 1859.—(Original Patent, 2nd December, 1858.)

34. Ph. Leblanc, of Mons, for "A smoke-consuming apparatus."—Dated 12th March, 1859.

35. P. Dernoncourt, of Mons, for an imported invention of "A system of safety lamps with toothed disks."—Dated 12th March, 1859.—(French Patent, 7th March, 1859.)

36. Ed. Bauthière-Paquet, of Montigny-sur-Sambre, for "A circular glass bench, with an alternate movement for glass furnaces."—Dated 12th March, 1859.

37. H. de Bach and A. Laurent, of Jemmapes, for "A system of pistons with clack valves for propelling steam-boats, and for a system of india-rubber calking."—Dated 14th March, 1859.

List of Patents Delivered on the 31st March, 1859.

1. M. Colson, of Haim St. Pierre, for "New arrangements in machines for raising and lowering workmen in coal pits."—Dated 7th March, 1859.

2. J. B. Brubé, represented by H. Biebuyck, of Brussels, for an imported invention of "A kind of button buckles."—Dated 8th March, 1859.—(French Patent, 5th March, 1859.)

3. P. E. Aimont, of Brussels, for "A mode of lubricating railway carriages, &c."—Dated 9th March, 1859.)

4. B. Bejot-Gandel, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "An hydraulic cesspool, called 'fulling cesspool.'"—Dated 11th March, 1859.—(French Patent, 18th January, 1859.)

5. F. Hignet and Co., of Chatelineau, for "An apparatus for casting pipes in an upright position."—Dated 14th March, 1859.

6. F. Deboubers, of Ghent, for "A system of paddle wheels."—Dated 10th March, 1859.

7. F. Vouillon and F. R. Tavernier, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the treatment of filamentous substances." — Dated 12th March, 1859.—(French Patent, 31st December, 1858.)

8. V. A. Prou, represented by X. Raclot, of Brussels, for "An hydro-atmospheric weighing machine, with three pitches."—Dated 12th March, 1859.

9. J. Vandenhielakker, of St. Josse-ten-Noode, for "A machine for compressing coal and moulding bricks."—Dated 12th March, 1859.

10. Ch. Madiou, represented by Th. Boutillier, of Schaerbeek, for an imported invention of "A system of horse-gins combined with a railway."—Dated 12th March, 1859.—(French Patent; 11th May, 1858.)

11. J. Dumas, represented by Th. Boutillier, of Schaerbeek, for an imported invention of "A system for obtaining natural fountains."—Dated 12th March, 1859.—(French Patent, 14th January, 1859.)

12. L. A. Deflassieux Brothers and Pellion, represented by A. Crooy, of Brussels, for an imported invention of "A process for manufacturing wheels of locomotives, railway carriages, &c."—Dated 14th March, 1859.—(French Patent, 12th March, 1859.)

13. A. Couvreux and L. Combe, represented by H. Biebuyck, of Brussels, for an imported invention of "A dredging machine with inclined strops."—Dated 14th March, 1859.—(French Patent, 12th March, 1859.)

14. A. Couvreux and L. Combe, represented by H. Biebuyck, of Brussels, for an imported invention of "A crane with a moveable mast."—Dated 14th March, 1859.—(French Patent, 12th March, 1859.)

15. A. F. P. Bas, represented by X. Raclot, of Brussels, for an imported invention of "A system of fire-places."—Dated 14th March, 1859.—(French Patent, 10th March, 1859.)

16. F. Bonnardot, L. J. Vasner, and F. Létrillard, represented by X. Raclot, of Brussels, for an imported invention of "A thrashing machine."—Dated 14th March, 1859.

17. H. Tilkin-Mention, of La Boverie-lez-Liége, for "A piston with a variable tension, worked outside the cylinder without unmounting any part of the machinery."—Dated 17th March, 1859.

18. Ch. E. Devendeuvre, represented by O. Daillencourt, of Brussels, for an imported invention of "A drying kiln, and kiln for drying and baking bricks, tiles, drain pipes, and other ceramic products."—Dated 15th March, 1859.—(French Patent, 25th November, 1858.)

19. H. J. Rigaux, represented by H. Biebuyck, of Brussels, for "Improvements in the manufacture of tiles for vaults."—Dated 15th March, 1859.

20. L. Hanssens, of Vilvorde, for "A new fabric imitating hair stuffs."—Dated 15th March, 1859.

21. J. P. Piedboeuf, of Jupille, for "A mode of assembling sheet iron in the fire-places of steam boilers."—Dated 16th March, 1859.

22. A. Dessart, of Dolhain (Limburg), for "An apparatus for superheating steam."—Dated 16th March, 1859.

23. C. Martin, of Pepinster, for "Improvements in machines for carding and combing filamentous substances."—Dated 15th March, 1859.

24. T. Steppe, of Brussels, for "Manufacture of lace, called 'Brussels application,' from silk, thread, or common coloured thread."—Dated 16th March, 1859.

25. J. Emes, represented by L. N. Meckenheim, of Ixelles, for an imported invention of "A portable bed, which may be converted into a sofa, chair, or arm-chair."—Dated 16th March, 1859.—(English Patent, 27th July, 1858.)

26. F. Segers, of Brussels, for "A flexible hat with rims, made of American cloth." — Dated 16th March, 1859.

27. V. Tiphagne and M. Lepetit, of Brussels, for "A new mode of advertising, called 'album advertisements.'"—Dated 16th March, 1859.

28. Ch. Launay, of Brussels, for "A magnet-manometer or gas pressure gauge."—Dated 16th March, 1859.

29. M. N. Nicolle, represented by Ch. Launay, of Brussels, for "A gas-carburator."—Dated 16th March, 1859.

30. H. de Langen and A. Quidde, represented by D. de Vos-Verraert, of Brussels, for "An improved oven for baking bread." — Dated 16th March, 1859.

31. J. V. Florence, of Verviers, for "Improvements in Jacquard machines."—Dated 17th March, 1859.

32. H. Bayet, of Liége, for "A galvanic process for tinning metals."—Dated 18th March, 1859.

33. A. Dewitte, of Tamise, for "A churn." — Dated 18th March, 1859.

34. A. Hoelscher, of Verviers, for "Objects of art and ornaments, lacquered, bronzed, or galvanized, applicable to ornaments of silk, ribbons, embroideries, &c."—Dated 19th March, 1859.

35. J. B. Fondu, of Lodelinsart, a Patent of Improvements for "Improvements in machines for manufacturing bolts, rivets, and wood screws, by the cold or hot process."— Dated 19th March, 1859.—(Original Patent, 29th September, 1857.)

36. A. Scholberg, of Liége, for "Modifications in the manufacture of fire-arms with barrels placed one above the other."—Dated 18th March, 1859.

37. A. Lefebvre, of Alost, for "Treating and preparing halpha, reeds, hemp, flax, &c."—Dated 17th March, 1859.

38. J. Wetherhill, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in locks."—Dated 17th March, 1859. —(French Patent, 1st March, 1859.)

39. S. Léoni, represented by A. Crooy, of Brussels, for an imported invention of "Manufacture of certain ceramic products."—Dated 17th March, 1859.—(French Patent, 24th November, 1858.)

40. V. L. M. Serrin, represented by O. Daillencourt, of Brussels, for an imported invention of "A regulator of electric lights with a self-acting digression."—Dated 17th March, 1859.—(French Patent, 23rd October, 1858.)

41. F. Damême, J. Chrzanowski, and C. Brillaux, represented by Ch. Bika Dubois, of Schaerbeek, for an imported invention of "A continuous safety signal."—Dated 17th March, 1859.—(French Patent, 28th June, 1858.)

42. G. Leach, represented by A. Anoul, of Ixelles, for an imported invention of "An apparatus for winding off yarns from reels."—Dated 18th March, 1859.—(English Patent, 2nd February, 1859.)

43. N. Lelarge and D. Bodet, of Liége, for "A machine for polishing gun barrels."—Dated 19th March, 1859.

44. A. F. Ménard, represented by O. Dardenne, of Liége, a Patent of Improvement for "Improvement in apparatus for making bread."—(Lesobre's Original Patent, 20th November, 1851.)

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„ 5	Tuesday -	223	504	727— „
„ 6	Wednesday	125	81	206—Very hot.
„ 7	Thursday*	92	—	92— „
„ 8	Friday -	77	—	77—Showery.
„ 9	Saturday -	138	—	138—Fine.
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On his petition, recorded in the Office of the Commissioners on the 12th day of March, 1859.

658. To CHARLES PARKER, of Dundee, in the county of Forfar, North Britain, Engineer, for the invention of "Improvements in looms for weaving."

666. And to EDMUND ANSCOMBE, of No. 95, Westbourn Street, Pimlico, in the county of Middlesex, Joiner, for the invention of "An apparatus for taking an accurate delineation of any view or object in open air or otherwise."

On both their petitions, recorded in the Office of the Commissioners on the 16th day of March, 1859.

676. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Treating barley so as to obtain new alimentary substances therefrom."—A communication from Pierre Marmay, residing at Riom, France.

682. And to JULIEN DONAT, of 6, Rue Paradis Marais, Paris, in the empire of France, for the invention of "Improvements in apparatus used with matches for obtaining instantaneous light."

On their petitions, both recorded in the Office of the Commissioners on the 17th day of March, 1859.

700. To JOHN WALTER HART, of 60, St. Mary-Axe, in the city of London, Gentleman, for the invention of "An apparatus for the destruction of flies and other insects."—A communication from abroad by Frederick Barnett, residing at Paris, in the empire of France.

On his petition, recorded in the Office of the Commissioners on the 19th day of March, 1859.

722. To WILLIAM WEILD, of the city of Manchester, in the county of Lancaster, Machinist, for the invention of "Improvements in machinery and arrangements for coating slips, sheets, rods, and bars of metal, and laths, rods, and boards of wood, and similar articles formed of other substances, with paints, varnishes, and other like preparations, and drying the same."

727. To DANIEL LANCASTER BANKS, of Kennington, in the county of Surrey, Engineer, for the invention of "Improvements in suspension rail or road ways, and in machinery or apparatus connected therewith."

731. And to JOHN MACINTOSH, of North Bank, Regent's Park, Gentleman, and GODFREY RHODES, of Regent Street, Major in Her Majesty's Army, for the invention of "Improvements in tents and such like coverings for shelter against the weather."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of March, 1859.

778. To THOMAS CARR, of Bebington, in the county of Chester, Artificial Manure Manufacturer, for the invention of "Improvements in machinery for disintegrating artificial manures, and various other substances."

779. To CHARLES LEWIS ROBERTS, of Clerkenwell, in the county of Middlesex, for the invention of "Improvements in cigars."

781. To JOHN WILLIAM KELLY, Civil Engineer, of the town of Ennis, in the county of Clare, Ireland, for the invention of "Improvements in gas burners."

782. To Ernest de Caranza, of No. 97, Rue des Petits Champs, in the city of Paris, in the empire of France, Engineer, for the invention of "A new system of gas lighting through new apparatuses and matters richer in gas than pit-coal."

783. To Edwin Napoleon Norminton, of 19, High Street, Camden Town, in the county of Middlesex, for the invention of "The cleansing and remanufacturing of old used dirty railway grease for the manufacturing of new railway grease, for the cleansing and remanufacturing of old used cotton waste, tow, or any textile fabrics, and for the purifying of oils or any fatty matter."

785. To Richard Searle, of Woodford Wells, in the county of Essex, Gentleman, for the invention of "Improvements in apparatus used for transmitting signals by electricity for telegraphic purposes, and in the construction of telegraphic cables."

786. To Isaac Spight, of Glandford Briggs, in the county of Lincoln, Ironfounder and Agricultural Machine Maker, for the invention of "Improvements in horse hoes."

787. To Thomas Taylor, of Vere Street, in the county of Middlesex, Chemist, for the invention of "Improved means of giving increased strength to paper."

788. To Henry Potter Burt, of Charlotte Row, Mansion House, in the city of London, for the invention of "Improvements in apparatus for preparing and preserving timber."

789. And to Henry Moss, of 62, Brill Row, Somers Town, in the county of Middlesex, Boot and Shoe Manufacturer, and Thomas West, of 5, Jewin Street, in the city of London, Machinist, for the invention of "A machine for the cutting of leather for every purpose, and cutting cloths, linen, and other fabrics and materials."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of March, 1859.

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791. To John Henry Linsey, of No. 103, Cheapside, in the city of London, for the invention of "Certain improvements in binding or covering books."

793. To William Vaughan Edwards, of Swindon, in the county of Wilts, Ironfounder, for the invention of "Improvements in the construction of ways and apparatus to facilitate the conveyance of mails, goods, and passengers."

794. To George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in preventing explosions in steam boilers."—A communication from abroad by François Marchal, of Clermond-Ferand, in the empire of France, Engineer of the Paris and Lyons Railway.

795. To Thomas Downs Shipman, of Toronto, Canada West, North America, for the invention of "Improvements in apparatus for stamping and printing."—Partly a communication when abroad by Mr. Kendell, of Canada aforesaid.

796. To Humphrey Jefferies, of Birmingham, in the county of Warwick, Button Maker, for the invention of "Improvements in castors for furniture."

797. To John Cartwright, of Shrewsbury, in the county of Salop, Agricultural Implement Manufacturer, for the invention of "An improved implement for crushing clods and pulverizing the surface soil, also convertible into a press wheel roller."

798. To Cowper Phipps Coles, of Southsea, in the county of Hants, Captain R.N., for the invention of "An apparatus for defending guns and gunners in ships of war, gun boats, and land batteries."

799. To William Gossage, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture of certain alkaline silicates and in the production therefrom of liquor silicis or liquid flint."

800. To Alfred Vincent Newton, of the Office of Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved governor for marine and other steam engines."—A communication from abroad by H. C. Sergeant, of the United States of America.

801. And to William Smith, of King Street, Smithfield, in the city of London, and Edmund Smith, of Hamburgh, Gas Meter Manufacturers, for the invention of "Improvements in means or apparatus for the purpose of regulating the flow or passage of fluids."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of March, 1859.

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802. To John Lacy, Cotton Spinner, and Samuel Simpson, and Henry Smith, Managers, all of Travis Holme Mill, Walsden, near Todmorden, in the county of Lancaster, for the invention of "Certain improvements in machinery for preparing and spinning cotton and other fibrous materials."

803. To Charles Pickering, of Tonbridge, in the county of Kent, for the invention of "Improved apparatus for brewing."

804. To Robert Craib Ross, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improved apparatus for cultivating land."

805. To Thomas Ivory, of Edinburgh, Advocate for the invention of "Improvements in rotary engines."

807. To Alexander Morton, of Morton Place, Kilmarnock, for the invention of "Improvements in sextants or quadrants for nautical purposes, and which are also adapted to the measuring of altitudes or angular distances."

809. To James Stephen Bateson, of No. 17, Bolton Street, Mayfair, in the county of Middlesex, Barrister-at-Law, for the invention of "Improvements in generating steam and in the apparatus employed therein."

810. To Francis Morton, of James Street, Liverpool, in the county of Lancaster, Engineer, for the invention of "Improvements in the construction of fences and the post or pillars for the same, parts of which improvements are also applicable to the construction of gate posts or poles for telegraph purposes or for signal posts."

811. To William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of

Middlesex, Civil Engineer, for the invention of "Improvements in mills for cleaning rice."—A communication from abroad by Peter McKinley, of Charleston, in the United States of America.

812. And to Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for for the invention of "Improvements in the construction of steam boiler and other furnaces."—A communication from abroad by Jonathan Amory, of Boston, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 31*st day of March*, 1859.

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813. To Daniel Kinnear Clark, of No. 11, Adam Street, Adelphi, in the county of Middlesex, Civil Engineer, for the invention of "Feed water heating apparatus."

815. To Isidor Sigismund, of Hull, in the county of York, Dentist, for the invention of "Certain improvements in the manufacture of artificial teeth, and in the apparatus connected therewith."—Partly a communication from Simon Baron Sigesmond, of New York, U. S.

816. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "Improvements in solidifying, pressing, and moulding."—A communication from Felix Dehaynin, residing at Paris.

817. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "A new preparation of indigo for dyeing."—A communication from Messrs. Depoully Frères, residing at Paris.

819. To William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved process of manufacturing sulphate of lead, carbonate of lead, nitrate of potash, and sulphate of soda."—A communication from Samuel Cooper, of Boston, in the United States of America.

820. To John James Davis, of Percival Street, Clerkenwell, in the county of Middlesex, Die Sinker and Press Manufacturer, for the invention of "An improved pad, applicable for inking, damping, and other like purposes by hand."

821. To William Tod, of Glasgow, in the county of Lanark, North Britain, Marine Engineer, for the invention of "Improvements in marine steam engines."

822. And to Yves-Marie Thomas, of No. 2, Rue Sainte-Appoline, Paris, empire of France, and of No. 45, Essex Street, Strand, London, for the invention of "An improved propeller for ships, vessels, boats, and water wheels."

On their several petitions, recorded in the Office of the Commissioners on the 1*st day of April*, 1859.

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823. To Joseph Desmet-Séaut, of Mons, in the kingdom of Belgium, and No. 4, South Street, Finsbury, London, Mechanician, for the invention of "An improved gas burning and lighting apparatus."

825. To John Hall, of Queen's Road, Chelsea, Engineer, and John Say Sparkes, of St. John's Wood, Gentlemen, both in the county of Middlesex, for the invention of "An improved application of machinery for the purpose of hoisting, lowering, pulling, or drawing weights."

827. To Spendlove Desborough, of No. 24, Noble Street, in the city of London, Agent, for the invention of "Improvements in making up needles, steel pens, and other small articles for sale."

829. To William Mather, of the city of Manchester, in the county of Lancaster, Wholesale Druggist, for the invention of "An improved apparatus for catching and destroying flies and other insects."

831. To Michael Scott, of No. 26, Parliament Street, Westminster, for the invention of "Improvements in diving apparatus."

833. And to Thomas Richardson, of Hartlepool, in the county of Durham, Engineer, and George William Jaffrey, of the same place, Engineer, for the invention of "Improvements in the arrangements and construction of harbours of refuge, breakwaters, sea walls, or barriers, and other like structures."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of April, 1859.

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835. To Ferdinand Potts, of the firm of F. Potts and Company, Tube Manufacturers, and Robert Brough, Engineer, both of Birmingham, in the county of Warwick, for the invention of "Certain improvements in the manufacture of calico printing rollers or cylinders, also in the machinery and apparatus for performing certain parts of the same, and which said apparatus are also applicable, seperately or conjointly, to the manufacture of parallel and other metallic tubes, end the rolling of the metal for the same or other purposes."

837. To Charles Felton Kirkman, of Argyl Street, Regent Street, London, Gentleman, for the invention of "Protecting telegraphic wires, and in using them for subterranean and submarine purposes."

839. To William Brown and Charles Neale May, both of Devizes, in the county of Wilts, Engineers, for the invention of "Improvements in hay-making machines."

841. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in ladies' hooped skirts."—A communication from abroad by George Mallory, of Watertown, Newhaven, United States of America.

843. To Champion Russell, of Stubbers, near Romford, in the county of Essex, Esquire, for the invention of "An improvement in the working of marine engines."

845. To DAVID BLAIR WHITE, of Newcastle-on-Tyne, M.D., for the invention of "Improvements in arranging ships' and other pumps."

847. And to DAVID SOWDEN, of Bradford, in the county of York, Jacquard Machine Maker, for the invention of "Improvements in jacquard machines employed for weaving figured goods or fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of April, 1859.

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849. To GEORGE HASELTINE, of the United States of America, now of No. 4, Southampton Buildings, Holborn, in the county of Middlesex, for the invention of "Improvements in sewing machines."

851. To LEONARD BRIERLEY, of Birmingham, in the county of Warwick, Manufacturer, and HENRY GEERING, of Birmingham aforesaid, Manufacturer, for the invention of "A new or improved method of ornamenting metallic bedsteads and other articles of metallic furniture."

853. To GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, and EDWARD DUTCH, of the same place, Commercial Traveller, for the invention of "Improvements in the apparatus for regulating the quantity of water to be used for the flushing of waterclosets and other purposes."

855. To JOHN HETHERINGTON, of Manchester, in the county of Lancaster, Machinist, and THOMAS WEBB and JAMES CRAIG, of Tutbury, in the county of Derby, Cotton Spinners, for the invention of "Improvements in machinery or apparatus for spinning and doubling cotton and other fibrous materials."

857. And to NICOLAS LIBOTTE, Mechanician, of 33, Boulevart St. Martin, Paris, empire of France, for the invention of "An improved safety appparatus to be applied to cages in the drawing of coals."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of April, 1859.

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859. To THOMAS PURNELL LUFF, of Shepton Mallet, in the county of Somerset, Estate Agent, for the invention of "Improvements in cheese vats."

861. To JEAN AUGUSTE HILARION BALLANDE, of Paris, in the empire of France, Gentleman, for the invention of "An improvement in the preparation of writing paper, and ink to be used thereon."

863. And to JOSEPH ROGERS, of 9, Queen Square, Bartholomew Close, in the city of London, Rope Maker, and EDWARD JOHNSON TWEED, of 22, Castle Street, Falcon Square, also in the city of London, for the invention of "Improvements in coating conducting wires used for electric telegraphic purposes."

On their several petitions recorded in the Office of the Commissioners on the 6th day of April, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given that the petition of

860. ISAAC ADAMS, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "An improved tubular chain cable guide for vessels' bulwarks," —a communication from Alfred S. Phillips, a resident of Boston, of the said state of Massachusetts,—was deposited and recorded in the Office of the Commissioners on the 6th day of April, 1859, and a complete Specification accompanying such petition was at the same time filed in the said Office.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 12th April,* 1859, *inclusive.*)

11th April.

879. ROBERT BAIRD LINDSAY, of Mill Wall Brewery, Poplar, in the county of Middlesex, for an invention of "An improvement in removing the scale or deposit from tubular flues of steam-boilers."—Dated 12th April, 1856.

963. CHRISTOPHER NICKELS, of the Albany Road, Camberwell, in the county of Surrey, and JAMES HOBSON, of Leicester, for an invention of "An improvement in machinery for weaving carpets and terry fabrics."—Dated 22nd April, 1856.

12th April.

876. ROBERT STIRLING NEWALL, of Gateshead-upon-Tyne, in the county of Durham, Telegraph Engineer, for an invention of "Improvements in telegraph insulators."—Dated 12th April, 1856.

882. PATRICK ROBERTSON, of Shawlands Hill, in the county of Renfrew, Manufacturer, for an invention of "Improvements in power-loom weaving." —Dated 14th April, 1856.

889. SAMUEL CUNLIFFE LISTER, of Bradford, county of York, for an invention of "Improvements in spinning."—Dated 14th April, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents for Inventions which were Granted, Prolonged, or became Void during the Month of January, 1859.†

(Communicated by the Austrian Government.)

1. Patents Granted.

1. Friedrich Wilhelm Mowbray and Jacob Broadley, of Bradford, England, represented by Robert Galbraith, Vienna, for "Improvements in weaving and in looms." — 3 years. — (Secret.)—Dated 1st January, 1859.—(English Patent, 8th April, 1858.)

2. Friedrich Oerle, of Venice, for "An improved machine for hulling rice."—5 years. — (Secret.)—Dated 3rd January, 1859.

3. Johann Nesweibik, of Ofen, for "Protecting hats from perspiration without using linings or leather."—2 years.—(Secret.)—Dated 3d January, 1859.

4. Enoch and Philemon Sykes, of Huddersfield, and Reuben Sykes, of Brussels, represented by August Lenz, Vienna, for "Improvements in continuous machines for spinning and preparing wool and partly other fibrous substances."—3 years.—(Public.)—Dated 3rd January, 1859.—(English Patent, 29th May, 1858.)

5. Friedrich Paget, of Vienna, for "Improvements in the manufacture of steel."—1 year.—(Secret.)—Dated 4th January, 1859.

6. Theophil Weisse, Joseph Kretschmer, and Anton Weisse, of Prague, for "A peculiar construction of hermetic cocks for steam, connection, and fluids, which are protected from freezing, which do not require repairing, which may be regulated with the greatest precision, and which are applicable to machines as well as to domestic purposes." — 1 year. — (Secret.) — Dated 4th January, 1859.

7. Joseph Dobsch, of Heiligenstadt, near Vienna, for "Improvements in the manufacture of hats, whereby a greater portion of cotton may be mixed with the substances used in that manufacture." — 1 year.—(Secret.)—Dated 4th January, 1859.

8. Peter Arnhofer, of Leibnitz, Styria, for "Improvements in chaff-cutting machines." — 1 year.—(Public.)—Dated 4th January, 1859.

9. Dominik Boccasini, of Triest, for "Obtaining coke from lignites, said coke being applicable to smelting metals in blast furnaces."—5 years.—(Secret.)—Dated 4th January, 1859.

10. Hugo Fiedler, of Preran, Moravia, and Joh. Friedr. Gärtner, jun., of Vienna, for "A machine for wetting, hulling, and cleaning corn."—1 year.—(Secret.)—Dated 4th January, 1859.

11. Adolph Janernig, of Jägerndorf, for "A so-called 'safety-pipe.'"—1 year.—(Public.)—Dated 5th January, 1859.

12. Digney Brothers and Co., of Paris, represented by Georg Märkl, Vienna, for "Improvements in Morse's telegraphs."—1 year.—(Public.)—Dated 5th January, 1859.

13. J. Rudolph Brzorad, of Mogyoros, in the district of Gran, Hungary, for "Obtaining so-called 'moulded coal' by means of mineral coal dust and tar pressed together."—1 year.—(Secret.)—Dated 5th January, 1859.

14. Franz Poduschka, of Ischeitsch, Moravia, for "An expeditious mode of lighting moderator lamps and other lamps, lustres, stearine candles, &c. by means of blow pipes."—1 year.—(Public.)—Dated 5th January, 1859.

15. Peter Pfeffermann, of Vienna, for "A cooling and disinfecting liquid for the mouth."—1 year.—(Secret.)—Dated 5th January, 1859.

16. Johann Chadwick, of Manchester, Arthur Elliot, of Wist-Hongten, and Wilhelm Robertson, of Manchester, represented by Friedr. Paget, Vienna, for "Improvements in machines for spinning or twisting silk directly from cocoons, and for winding the same on bobbins."—3 years.—(Public.)—Dated 7th January, 1859.—(English Patent, 30th April, 1858.)

17. Candidus Antognazza, of Milan, for "Improvements in the construction of stoves." — 1 year.—(Public.)—Dated 9th January, 1859.

18. Benjamin Jani Rowits, of Abrudbanya, Transylvania, for "Improvements in extracting gold and silver from ores and slick."—1 year.—(Secret.)—Dated 9th January, 1859.

19. Alexander Bonzanini, of Milan, for "A process for obtaining lighting gas directly from peat and other tertiary fossils and vegetable detritus, and for conveying said gas, pressed or not, into private houses."—1 year.—(Secret.)—Dated 9th January, 1859.

20. August Hepner and Co., of St. Marie aux Minet, France, represented by Cornelius Kasper, Vienna, for "Improvements in circular looms for weaving plain and figured stuffs." — 1 year.—(Secret.)—Dated 9th January, 1859.

21. Johann Oetl, of Pest, for "Improvements in fire-proof iron safes."—1 year.—(Secret.)—Dated 9th January, 1859.

22. Simon Reiner, of Keskemit, Hungary, for "Improvements in fastening buttons to men's dresses." — 1 year.—(Secret.)—Dated 9th January, 1859.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

23. Wilhelm Kraust, of Vienna, for "A peculiar construction of water carts without water casks, which may be used as fire engines."—1 year.—(Secret.)—Dated 13th January, 1859.

24. Gregor Nasso, of Triest, for "A screw life boat.—1 year.—(Public.)—Dated 13th January, 1859.

25. Paul Ragaller, of Salzburg, for "A peculiar construction of smokeless malt-kilns."—1 year.—(Public.)—Dated 13th January, 1859.

26. Joseph Grundmann, of Vienna, for "Protecting trees, blossoms, fruit, and plants from insects, without injury to their growth."—1 year.—(Public.)—Dated 13th January, 1859.

27. Leopold Schostal, of Vienna, for "A peculiar process for manufacturing statuary pasteboard for roofings."—1 year.—(Secret.)—Dated 13th January, 1859.

28. Lorenz Remelka, of Fischamend, Lower Austria, for "Improvements in machines for cleaning fruit and rolling barley."—1 year.—(Secret.)—Dated 13th January, 1859.

29. Louis Gustav Scriba, of Paris, represented by Georg Märkl, Vienna, for "A cigar-case."—1 year.—(Public.)—Dated 14th January, 1859.

30. Jean André Cecil Nestor Delpech, senr., of Castres, France, represented by Georg Märkl, Vienna, for "A suction and forcing pump for fire-engines applicable to industrial and domestic purposes."—1 year.—(Public.)—Dated 14th January, 1859.

31. Johann Wagner, of Vienna, for "Manufacture of smoking-pipes and mouth-pieces for cigars from meerschaum waste and other meerschaum clay by means of steam."—1 year.—(Secret.)—Dated 14th January, 1859.

32. Lodovico Farant, of Turin, represented by Alexander Bonnefond, Milan, for "A saw with one or several different blades."—1 year.—(Secret.)—Dated 14th January, 1859.—(Sardinian Patent, 30th September, 1858.)

33. Friedrich Huth, of Hagen, Westphalia, represented by Dr. Leopold von Mayer, Vienna, for "Converting iron wheel-tyres of railway carriages, axles, and rails into steel, and for rolling the same."—5 years.—(Secret.)—Dated 16th January, 1859.

34. Franz von Mack, of Vienna, for "A mechanical apparatus called 'expeditious reckoner,' for converting Austrian convention money into Wahrung money, and vice versâ."—1 year.—(Secret.) Dated 16th January, 1859.

35. Moriz Preyss, of Pest, for "Constructing gas burners so as to obtain more air than by the common butterfly burners."—1 year.—(Pubic.)—Dated 16th January, 1859.

36. Friedrich Paget, of Vienna, for "Improvements in machines for the treatment of flax, hemp, and other vegetable fibres."—2 years.—(Secret.)—Dated 16th January, 1859.

37. Johann Christoph Endris, of Vienna, for "Improvements in machines for cleaning and purifying flax, hemp, and other fibrous substances."—2 years.—(Secret.)—Dated 16th January, 1859.

38. Hyacinth Barran, of Barcelona, Spain, represented by Georg Märkl, Vienna, for "Improvements in looms for weaving velvet and other cloth fabrics."—1 year.—(Public.)—Dated 16th January, 1859.

39. Johann Nejedly, of Vienna, for "Improvements in the manufacture of all kinds of playing cards."—2 years.—(Secret.)—Dated 16th January, 1859.

40. Robert Franz Loges, of Vienna, for "Improvements in fastenings of bracelets."—1 year.—(Public.)—Dated 16th January, 1859.

41. Raimond Smolka, of Vienna, for "Improvements in Morse's telegraphs, whereby they are worked in two different ways by using electro-magnetic power instead of weights."—1 year.—(Secret.)—Dated 16th January, 1859.

42. Joseph Friedmann, of Miskolcz, now at Vienna, for "Improvements in tongs for marking sheep."—1 year.—(Public.)—Dated 16th January, 1859.

43. Leopold Mechlovits, of Ofen, for "Improvements in fastening pockets of men's dresses."—1 year.—(Secret.)—Dated 17th January, 1859.

44. Adam Priljeva, of the 46th Regiment of the Line, for "A motor for conveying weights worked by a combination of spring or other power, with the power of a lever or elasticity, being applicable to all kinds of machines."—1 year.—(Secret.)—Dated 17th January, 1859.

45. Florentin Joseph Van den Vinne, of Brussels, represented by Peter August Kruss, Vienna, for "A brick-machine."—5 years.—(Secret.)—Dated 21st January, 1859.

46. Heinrich Wallfisch, of Gran, Hungary, for "Improvements in men's dresses, whereby they are made more durable."—1 year.—(Secret.)—Dated 21st January, 1859.

47. Anton Okenfuss, of Pest, for "Pressing metal semi-relief objects and letters for inscriptions without using punches."—2 years.—(Secret.)—Dated 21st January, 1859.

48. Joseph Heinrich Sopuch, of Vienna, for "A process for smelting tallow with the addition of substances not used hitherto for that purpose."—3 years.—(Secret.)—Dated 23rd January, 1859.

49. Eduard Engelmann, of Hernals, near Vienna, for "Manufacture of lake bonnets and hats for children, and also caps resembling cloth."—1 year.—(Secret.)—Dated 23rd January, 1859.

50. Leopold Kraft, of Fünfhans, near Vienna, for "Improvements in felt and silk hats, whereby they are made lighter and more durable."—1 year.—(Secret.)—Dated 23rd January, 1859.

51. Prince Sergius Dolgoruki, of Berlin, represented by Georg Märkl, Vienna, for "A peculiar cylinder press, called 'Sergiana.'"—1 year.—(Public.)—Dated 23rd January, 1859.

52. Joseph Rocca and Joseph and Vincenz Lancia, of Turin, represented by Evarista Medea, Milan, for "Preserving food by means of steam."—2 years.—(Secret.)—Dated 23rd January, 1859.—(Sardinian Patent, expires 30th September, 1861.)

53. Adam Koiterer, of Vienna, for "An apparatus for separating fecal matter, for collecting the solid matter in hermetic moveable vessels, and for removing the draught of air."—1 year.—(Public.)—Dated 23rd January, 1859.

54. Johann Schatzl, of Pfaffstätten, Lower Austria, for "Removing the tension in manufacturing cast-iron wheels of railway-carriages, &c."—1 year.—(Secret.)—Dated 23rd January, 1859.

55. Cornelius Kasper, of Vienna, for "An improved gas-burner."—2 years.—(Secret.)—Dated 23rd January, 1859.

56. Gustav Starke, of Vienna, for "A peculiar construction of surveyors' tables, whereby they are made lighter, more durable, and steady."—1 year.—(Public.)—Dated 23rd January, 1859.

57. Franz Daina, of Bergamo, for "A peculiar method of condensing steam in steam engines."—2 years.—(Secret.)—Dated 23rd January, 1859.

58. Dr. Heinrich Meidinger, of Heidelberg, represented by Friedrich Aschermann, Vienna, for "Improvements in the construction of continuous galvanic batteries, especially for telegraphs, which may be worked for two years without requiring repairs."—1 year.—(Secret.)—Dated 23rd January, 1859.

59. George Taylor Yull, of Pest, represented by Dr. Finger, Vienna, for "A peculiar construction of ploughs."—3 years.—(Public.)—Dated 23rd January, 1859.

60. Clemens Eduard Sonneborn, of Berlin, represented by Georg Märkl, Vienna, for "A peculiar process for manufacturing cement from any kind of stones, marl, or sand."—5 years.—(Secret.)—Dated 24th January, 1859.

61. Eduard Schmid, of Vienna, for "Constructing and protecting telegraphic cables."—1 year.—(Secret.)—Dated 24th January, 1859.

62. Andreas Weber, of Vienna, for "A peculiar construction of Venetian blinds, which may be lowered and raised without opening the windows."—3 years.—(Secret.)—Dated 24th January, 1859.

63. Franz Rödiger, of Vienna, for "A dial apparatus for registering the distance travelled over by carriages, their fares, the revolutions of machines, and for other similar purposes."—1 year.—(Public.)—Dated 25th January, 1859.

64. Carl Schleicher, of Schönthal, Rhenish Prussia, represented by M. P. Crachi, Vienna, for "A machine for grinding the points of needles, pins, heckle bars, &c. of any metal."—5 years.—(Secret.)—Dated 25th January, 1859.

65. Anton Guttin, of Milan, for "A cylindrical wheel of a single piece of solid steel, of any size and dimension, for the manufacture of metal sheets."—3 years.—(Secret.)—Dated 25th January, 1859.

66. Franz. Stiehler, of Vienna, for "An apparatus for consuming smoke or gas in boilers of locomotives and vessels."—1 year.—(Public.)—Dated 25th January, 1859.

67. Carl Austerlitz, of Vienna, for "So-called solar gas oil."—1 year.—(Secret.)—Dated 25th January, 1859.

68. Conrad Schember, of Vienna, for "A mode of converting the usual proportion of 1—10 in moveable decimal weighing machines into the proportion of 1 to 50 or 1 to 100, whereby a saving of 5/10 or 5/100 in the usual weights is obtained."—1 year.—(Public.)—Dated 25th January, 1859.

69. Simon Deutsch, of Pest, for "Improvements in the manufacture of furniture."—1 year.—(Secret.)—Dated 29th January, 1859.

70. Anton Hausner, of Krapina, Croatia, for "Manufacture of paper for documents in vats and by common machines, said paper being more uniform, durable, and insensitive to chemical agents."—1 year.—(Secret.)—Dated 29th January, 1859.

71. Adolph Hammer, of Vienna, for "A peculiar process for transferring prints on stone and for multiplying the same on lithographic presses."—1 year.—(Secret.)—Dated 29th January, 1859.

72. Joseph Pizzocheri, of Monza, Lombardy, for "Improvements in his patent clocks, whereby the time is easily ascertained at night."—1 year.—(Public).—Dated 29th January, 1859.

73. Pasquale Fioravanti and Michelangelo Latini, of Turin, represented by Luigi Dumolard, Milan, for "A peculiar process for hardening and colouring plaster stones without destroying their structure and for imitating thereby marble and other hard stones."—1 year.—(Secret.)—Dated 31st January, 1859.—(Sardinian Patent, 31st December, 1858.)

74. Wilhelm Schmidt and Co., of Heidelberg, represented by Friedrich Aschermann, Vienna, for "Improvements in the construction of hydraulic spiral blasts for forges and smelting furnaces, being also applicable to preserving the carbonic acid contained in beer."—1 year.—(Public.)—Dated 31st January, 1859.

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2. Prolonged Patents.

1. Joseph Storefs, for "A method of applying lithographic printing on paper by other means than used hitherto."—6th year.—(Secret).—Dated 9th January, 1854.

2. Joseph Bauch (Wenzel Konvalinka, assignee), for "Improvements in preparing all kinds of cotton fabrics for dyeing and printing."—3rd and 4th years.—(Secret.)—Dated 27th May, 1857.

3. Joseph Löftner, for "Improvements in the manufacture of wooden pins."—2nd year.—(Secret.)—Dated 30th September, 1857.

4. Franz de Paula Schürer, for "Improvements in vine-scissors."—5th year.—(Secret.)—Dated 26th January, 1855.

5. Napoleon Gaillard, for "Manufacture of gutta percha shoes or boots."—3rd year.—(Secret.)—Dated 4th January, 1857.

6. Wilhelm Nedwied and junr., for "Improvements in moveable cast-iron machines for roasting coffee."—3rd and 4th years.—(Secret.)—Dated 17th January, 1857.

7. Alexis Vavin and Eugen Grenet, for "An electric battery."—2nd year.—(Secret.)—Dated 27th December, 1857.

8. Peter Joseph Guyet, for "A mode of assembling pipes for conveying water, gas, air, and steam."—2nd year.—(Public.)—Dated 28th December, 1857.

9. Samuel Frankfurter, for "Manufacture of durable furniture."—2nd year.—(Secret.)—Dated 28th January, 1858.

10. Marie Louise Croezier de Ronzieres (Mrs. Prost), for "A process for preparing and preserving hides, fur, wool, &c."—2nd year.—(Secret.)—Dated 8th March, 1858.

11. Joseph Tobias Goldberger, for "Vegetable soap."—8th and 12th years.—(Secret.)—Dated 22nd March, 1852.

12. Cornelius Kasper, for "An apparatus for covering bottles and other objects with straw, reeds, leaves, &c."—3rd year.—(Secret.)—Dated 25th December, 1856.

13. Johann Hermann, for "An improved mode of fixing cross-ties in tin-sheet bridges."—2nd year.—(Public.)—Dated 24th December, 1857.

14. Arnold Berliner, Arnold Berlyn, and Franz Durand, for "A continuous self-acting spindle for spinning fibrous substances."—2nd year.—(Public.)—Dated 9th March, 1858.

15. Carl Philipp Haussoullier and Carl Cogniet, for "A process for manufacturing and purifying paraffine."—2nd year.—(Secret.)—Dated 15th March, 1858.

16. Claude Bernard Adrien Chenot, for "Improvements in smelting, welding, and casting steel."—5th year.—(Secret.)—Dated 18th March, 1855.

17. Johann Baptist Pascal, for "A machine, by means of which the expansive power of a mixture of water-steam, air, and the gases obtained by combustion is utilized as motive power."—5th year.—(Secret.)—Dated 24th March, 1855.

18. Jean Baptist Pascal, for "Improvements in machines for obtaining motive power by means of a mixture of steam and hot air or gases of combustion.—4th year.—(Public.)—Dated 7th January, 1856.

19. Joachim Jellinek, for "An apparatus for pressing devices on paper."—4th year.—(Secret.)—Dated 21st January, 1856.

20. Arsenias August Olivier, for "Improvements in reeling silk."—4th year.—(Secret.)—Dated 11th May, 1856.

21. Carl Dritzler, for "A peculiar objective glass for the camera obscura."—2nd year.—(Public.)—Dated 28th December, 1857.

22. Franz Roch, for "So-called 'Vienna patent starch.'"—2nd year.—(Secret.)—Dated 1st January, 1858.

23. Joseph Beer, for "Improvements in his construction of economical kitchen-ranges."—2nd year.—(Secret.)—Dated 10th January, 1858.

24. Friedrich Kuhlmann, for "A peculiar process for obtaining chloride of barium."—2nd year.—(Secret.)—Dated 15th May, 1858.

25. Prosper Pimont, for "Improvements in his composition for coating walls, timber, iron, &c."—3rd year.—(Secret.)—Dated 5th January, 1857.

26. Heinrich Bougleux, for "Boiling fluids by applying balls to the boilers."—3rd year.—(Secret.)—Dated 5th January, 1857.

27. Louis Jacquemier, for "A process for hardening plaster-stones in imitation of marble."—3rd year.—(Secret.)—Dated 15th February, 1857.

28. Ulysse Puech, for "A French stocking-frame."—3rd year.—(Secret.)—Dated 18th February, 1857.

29. Johann Backhausen, for "Manufacture of gauze, lawn, tulle, &c., with designs on both sides."—3rd and 4th year.—(Secret.)—Dated 15th March, 1857.

30. Joh. Rixinger, for "Improvements in the manufacture of gilt rods, which may be washed."—2nd year.—(Secret.)—Dated 31st December, 1857.

31. Johann Maria Joseph Degabriel, for "An electric danger signal for railways."—2nd year.—(Public.)—Dated 24th February, 1858.

32. Joseph Reichwein, for "Size for silk and felt hats."—2nd year.—(Secret.)—Dated 18th January, 1858.

33. Joseph Klotz, for "Improvements in safety-valves for steam-boilers and similar vessels."—3rd and 4th year.—(Secret.)—Dated 5th January, 1857.

34. Gustav Temesvary, for "A composition for waterproofing, smoothing, strengthening leather, and rendering the same warmer to the feet."—2nd year.—(Secret.)—Dated 17th March, 1858.

35. Johann Weber (Anton Freundt, assignee), for "A washing powder for cleaning linen."—2nd year.—(Secret.)—Dated 29th March, 1858.

36. Stanislaus Chodzko, for "A cheap and strong manure."—3rd year.—(Public.)—Dated 28th March, 1857.

37. Julius Peters, for "A spindle for continuously spinning wool into short-stapled wool."—2nd year.—(Secret.)—Dated 5th January, 1858.

38. Franz and Eligius Schmitz, for "Treatment of peat."—2nd year.—(Public.)—Dated 6th January, 1858.

39. Franz Schmitz, for "An hydraulic press."—2nd year.—(Public.)—Dated 7th January, 1858.

40. Friedrich Rödiger, for "An apparatus for manufacturing all kinds of figured stuffs."—2nd year.—(Public.)—Dated 14th January, 1858.

41. Charles Arsène Anciot, for "A so-called universal loom."—2nd year.—(Public.)—Dated 24th February, 1858.

42. Felix Alexander Testut de Beauregard, for "A peculiar photographic process, called photochromy."—2nd year.—(Secret.)—Dated 16th March, 1858.

43. Jacob Weiner (Franz Wertheim and Friedrich Wiese, assignees), for "Improved fastenings of fire-proof safes and chests."—3rd year.—(Secret.)—Dated 6th December, 1856.

44. Gertrand Wanner, for "So-called vegetable oil for the hair."—3rd year.—(Secret.)—Dated 11th January, 1857.

45. Joseph Guth, for "A file-cutting machine."—3rd year.—(Secret.)—Dated 28th January, 1857.

46. Carl Tichaczek, for "Improvements in the manufacture of ceruse."—2nd year.—(Secret.—)—Dated 13th January, 1858.

47. Franziska Wolf (May Klein, assignee), for "Protecting men's dresses from the effect of perspiration."—2nd year.—(Secret.)—Dated 24th February, 1858.

48. Franz Wilhelm and Julius Bittner, for "So-called aricin-pomatum."—2nd year.—(Secret.)—Dated 14th January, 1858.

49. Ernst Werner Siemens and Johann Georg Halske, for "Improvements in Morse's telegraphs."—5th year.—(Secret.)—Dated 14th February, 1855.

50. Daniel Hooibrenk, for "A process for obtaining a greater circulation of air in the soil."—3rd year.—(Public.)—Dated 19th January, 1857.

3. Patents which have become Void.*

1. Joseph Neuhold, for "Improvements in fly-wheels."—Dated 16th December, 1857; expired 16th December, 1858.

2. Joseph Neuhold, for "Improvements in razors."—Dated 16th December, 1857; expired 16th December, 1858.

3. Franz Leopold, for "Improvements in Jacquard machines."—Dated 13th October, 1856; expired 13th October, 1858.

4. Emil Dupont, for "Manufacture of Portland cement."—Dated 17th September, 1856; expired 17th September, 1858.

5. Joseph Slavik (Carl Lüftner, assignee), for "Manufacture of wooden pegs."—Dated 29th October, 1856; expired 29th October, 1858.

6. Alfred Charles Hervier, for "Applying centrifugal power to propelling vessels."—Dated 12th July, 1853; expired 12th July, 1858.

7. Andreas Töpper, for "Manufacture of kitchen vessels from rolled Styrian sheet iron."—Dated 16th July, 1853; expired 16th July, 1858.

8. Alphons Jobard, for "Improvements in lamps."—Dated 25th July, 1853; expired 25th July, 1858.

9. Wilhelm Schmidt and Philipp Arend, for "A harvesting machine moved by horse power."—Dated 26th July, 1853; expired 26th July, 1858.

10. Peter Rittinger, for "A new system of evaporation."—Dated 27th July, 1853; expired 27th July, 1858.

11. Eduard Heinrich Jackson, for "Improvements in apparatus for obtaining electric light."—Dated 27th July, 1853; expired 27th July, 1858.

12. Wenzel Günther, for "Improvements in the construction of locomotives."—Dated 8th July, 1854; expired 8th July, 1858.

13. Heinrich Arend, for "A harvesting machine."—Dated 20th July, 1854; expired 20th July, 1858.

14. Thomas John, for "An apparatus for writing telegraphs."—Dated 25th July, 1854; expired 25th July, 1858.

15. Gaetano Bonelli, for "Improvements in electric telegraphs"—Dated 10th July, 1855; expired 10th July, 1858.

16. Conrad Puchelt, for "Applying graduated grates to locomotives and moveable steam boilers."—Dated 12th July, 1855; expired 12th July, 1858.

17. Louis Michel Franç. Doyère, for "A process for preserving corn and grain."—Dated 19th July, 1855; expired 19th July, 1858.

18. Stephan Desiré Noyon, for "A new system of machines for earthworks."—Dated 23rd July, 1855; expired 23rd July, 1858.

19. Hermann Ehrenfeld, for "Improvements in pressed yeast."—Dated 2nd July, 1856; expired 2nd July, 1858.

20. Anton von Sibrik, for "Improvements in his sewing machine, as patented 25th March, 1856."—Dated 8th July, 1856; expired 8th July, 1858.

21. Richard Ischeligi and Co., for "An improved machine for grinding chemically pure or dry oxide of lead (massicot) for the manufacture of minium."—Dated 11th July, 1856; expired 11th July, 1858.

22. Friedrich Georg Wieck, for "A machine for drying woollen and downy fabrics."—Dated 14th July, 1856; expired 14th July, 1858.

23. Carl Jurmann, for "Manufacture of side weapons from cast-steel."—Dated 18th July, 1856; expired 18th July, 1858.

24. Ignaz Fuchs and Abraham Reach, for "An expeditious sealing machine."—Dated 27th July, 1856; expired 27th July, 1858.

25. Leprince Brothers, for "Improvements in the manufacture of gas."—Dated 27th July, 1856; expired 27th July, 1858.

26. Antoine Beanfumé, for "An apparatus for distributing water in steam-boilers."—Dated 31st July, 1856; expired 31st July, 1858.

27. Johann Kienzle, for "Improvements in smut-mills."—Dated 1st July, 1857; expired 1st July, 1858.

28. Gustav Romanow Ruczicki, for "An apparatus in pianos for enabling performers to write down at once the music they play."—Dated 2nd July, 1857; expired 2nd July, 1858.

29. Franz Horski, for "A peculiar machine for sowing corn."—Dated 2nd July, 1857; expired 2nd July, 1858.

30. Franz Horski, for "A machine for distributing artificial manure."—Dated 2nd July, 1857; expired 2nd July, 1858.

31. Andreas Glätzle, for "Manufacture of brilliant blacking for leather."—Dated 1st July, 1857; expired 1st July, 1858.

32. Julius Hippmann, for "Improvements in thrashing machines."—Dated 2nd July, 1857; expired 2nd July, 1858.

33. Hermann Gotthard Möhring, for "A peculiar sawing machine, called compass sawmachine."—Dated 13th July, 1857; expired 13th July, 1858.

34. Hermann Gotthard Möhring, for "Improvements in chaff-cutting machines."—Dated 13th July, 1857; expired 13th July, 1858.

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

35. Carl Omboni, for "An apparatus in hydraulic oil-presses."—Dated 17th July, 1857; expired 17th July, 1858.

36. Friedrich Haller, for "A composition for rendering pasteboard for roofings fire and waterproof, and for rendering wood, cloth, and paper fire-proof."—Dated 19th July, 1857; expired 19th July, 1858.

37. Joseph Bertinetti, for "An hydraulic suction pump with hollow pistons."—Dated 19th July, 1857; expired 19th July, 1858.

38. Lorenz Mohrherr, for "Manufacture of chests for protecting their contents from fire, water, and robbers."—Dated 19th July, 1857; expired 19th July, 1858.

39. Franz and Anton Suske, for "A marble composition which cannot be injured by the action of fire or the atmosphere."—Dated 19th July, 1857; expired 19th July, 1858.

40. Friedrich Kühnel, for "Improvements in cast-iron wheels and wheel-tyres of railway carriages."—Dated 19th July, 1857: expired 19th July, 1858.

41. Jacob Lindemann, for "Moveable steam and shower bath apparatus."—Dated 25th July, 1857; expired 25th July, 1858.

42. Johann Littloch, for "Improvements in machine spurs."—Dated 27th November, 1856; expired 27th November, 1558.

43. Dr. Ferdinand Jansen (Dr. Ludw. Hoffmann, assignee), for "A cosmetic substance, or washing liquid."—Dated 16th September, 1852; expired 16th September, 1858.

44. Carl Jedatschek and Eugen Hammermüller, for "Manufacturing leather within four weeks by means of tannine and an air-pump."—Dated 15th April, 1858; annulled 13th January, 1859, for want of novelty.

45. Friedrich Paget and Joseph Choczenski, for "A peculiar process for treating bituminous mineral substances in order to obtain paraffine oil and paraffine."—Dated 12th July, 1855; annulled 12th July, 1858, in consequence of its not having been worked.

46. Julius Galecki (A. M. Kuiper, assignee), for "Improvements in the manufacture of furniture from hollow wrought-iron."—Dated 16th August, 1856; expired 16th August, 1858.

47. Joseph Haba, for "A metal cylinder matchbox."—Dated 3rd November, 1857; expired 3rd November, 1858.

48. Anton Mayer, for "Improvements in smelting and hammering iron."—Dated 15th August, 1851; expired 15th August, 1858.

49. S. Edler and A. Wolf, for "Improvements in the manufacture of matches."—Dated 31st August, 1851; expired 31st August, 1858.



THE NETHERLANDS.

List of Patents for Inventions and Importations Delivered since the 6th November, 1858.*

(For previous List, see No. 514 of this Journal.)

(*Communicated by His Excellency the Minister of the Interior.*)

1. Moreau, senr. and junr., of Paris, represented by L. J. Vonk, of Gravenhage, for an imported invention of "Carbonizing peat, wood, pit-coal, &c."—10 years, to begin from 26th August, 1857.—Dated 30th January, 1858.

2. J. C. Meunier, of Paris, represented by L. J. Vonk, of Gravenhage, for an imported invention of "A new arrangement in machines used for propelling vessels on rivers and canals."—15 years, to begin from 19th April, 1858.—Dated 29th October, 1858.

3. E. Bremer, of Brussels, represented by J. H. Gaade, of Gravenhage, for an imported invention of "An improved mould for clay articles of porcelain works."—15 years.—Dated 29th October, 1858.

4. J. H. Schober, of Utrecht, for "A new mode and apparatus for drying flour."—5 years.—Dated 4th December, 1858.

5. K. Meynema, of Amsterdam, for "An improved system of diagonal yard-sails."—5 years.—Dated 13th December, 1858.

6. Baron H. M. Mollerus, of Brussels, represented by Schmolck, of Gravenhage, for "Improvements in machines for cutting matches and other improvements relating thereto."—5 years.—Dated 14th February, 1859.

7. Baron C. M. F. Serrurier, of Paris, represented by L. J. Vonk, of Gravenhage, for an imported invention of "Further improvements in his galvanic battery, as patented for 15 years on the 10th December, 1857."—10 years.—Dated 22nd February, 1859.

* For the Dutch Patent Law, see No 289 of this Journal.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 29th March, 1859, and each bearing that date.

No. 23,336. T. F. ALLEN, of Dyersville, Iowa, for an "Improvement in R. R. car trucks."

"What I claim as my invention, and desire to secure by Letters Patent, is, a car truck sustaining the weight of the car body upon the centre, in a manner to balance, or keep it in equilibrium, and free from contact with the side timbers of the truck frame, whatever be the motion imparted to it, and yet provide but the one common central axis or bearing, for it to turn upon, substantially as described and for the purposes set forth."

No. 23,337. LUTHER ATWOOD, of Brooklyn, N. Y., for an "Improvement in apparatus for destructive distillation."

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, the combination of the vertical distilling tower A, and appurtenances, with the condenser *h*, and the adjustable draft passage *c*, or their substantial equivalents in combination; when arranged and combined substantially as herein-before described, so as to use the current of heated products of combustion, in its upward or natural direction."

No. 23,338. THOS. D. AYLSWORTH, of Ilion, N.Y., for an "Improvement in hop frames."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, so hanging the main wire B, upon the supports F, as that said supports will prevent the wire from slipping through them, should it accidentally become loose, or broken, substantially as herein described. And I also claim, in combination with the main wire, suspended as herein represented, the uniting thereto of the training wires *d*, by spriug hooks, substantially as described and shown."

No. 23,339. GEO. W. BAKER, of Neponset, Ill., for an "Improved farm gate."

"I claim the slide D, and levers C, C, in combination with the rods *f*, *f*, levers *l*, *l*, rods *c*, *c*, and bars *b*, *b*, arranged for joint operation in connection with the gate sections, substantially as set forth."

No. 23,340. ABRAHAM BASSFORD, of New York, N. Y., for an "Improved cushion for billiard tables."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, constructing the cushion of a billiard table, of a metal plate B, the edge of which is protected by a thin strip of india rubber, or other suitable substance, substantially as and for the purpose set forth."

No. 23,341. ABRAHAM BASSFORD, of New York, N. Y., for an "Improved cushion rail for billiard tables."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the arrangement of the cushion rail of a billiard table, in such a manner that a space is left between the bed and the rail, by securing the same to the bed by means of studs C, and bolts *a*, substantially as and for the purpose specified. 2d, the arrangement of the pocket bows D, which are made of one piece, with the rail, and secured together by a lap-joint *f*, and which are beveled down at their lower edge, substantially as and for the purpose set forth."

No. 23,342. ALEN BECKERS, of New York, N. Y., for a "Ilinge for the reflectors of stereoscopes, &c."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the ears *a*, *a*, one on each side of the reflector of a stereoscopic case, or attached, in a corresponding manner, and for the same purpose, to any like part of another similar instrument, in combination with the screws *c*, substantially as and for the purpose described."

No. 23,343. HUBBARD BEEBE, of Newhaven, Conn., for a "Mode of preparing and mounting slates."

"I do not claim the vulcanized india rubber, or gutta percha, or any right to use the same without the license of the patentee thereof. What I claim as my invention, and desire to secure by Letters Patent, is, the combination of a metallic band or rim, and vulcanized india-rubber frame, or mounting, with or without a lining of cloth to the school slate, whether of stone, or slated paper, or wood, substantially in the manner and for the purposes herein specified and set forth. I also claim as my invention, the application of the vulcanized india-rubber or gutta-percha frame, or mounting, substantially in the manner herein described, without the metallic rim to slates of stone or other material of sufficient strength and stiffness, to warrant its disuse in any case; but I deem it preferable in all cases, to combine the two, where durability as well as noiselessness is deemed important."

No, 23,344. EDWARD BEHR, of New York, N.Y., for a "Mode of fastening skates."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the screws *b* and the screws *i*, or their equivalent, in combination with the toe cap B and with the heel strap C, substantially as and for the purpose described."

No. 23,345. FREDERIC B. BETTS, of Brownhelm, Ohio, for an "Improved method of opening and closing gates, by weight of vehicle."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the roller B, and its appurtenances, with the levers F, F, and connecting rods D, and with the gate, for the purpose specified, and substantially as set forth."

No. 23,346. LYMAN W. BLANCHARD, of Whitingham, Vt., for an "Improved construction of mallets."

"What I claim as my invention, and desire to secure by Letters Patent is, the mode of constructing mallets with wooden head blocks and iron flanges, and a tapering screw, arranged substantially in the manner and for the purpose set forth."

No. 23,347. PARDON BOYDEN, of Sandy Creek, N.Y., for an "Improvement in carriage tops."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the bows E, bars D, D, bars H, H, and seat rail (a^*), substantially as and for the purpose herein shown and described."

No. 23,348. JOEL CARRINGTON, of Avoca, N.Y., for an "Improvement in mole plough."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of a replaceable pointed colter, with a continuous plate or solid standard, carrying the mole and a brace in the rear, connecting the said mole to the beam, and also to the handles, in the manner substantially as herein described."

No. 23,349. JOHN CHARLTON, of Newark, N.J., for a "Mode of fastening skates."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the self-adjusting toe cap D, which is attached to the stock of a skate, substantially as and for the purpose specified."

No. 23,350. Hugh W. Collender, of New York, N.Y., for an "Improvement in billiard table cushions.

"What I claim as my invention, and desire to secure by Letters Patent, is, making cushions for billiard tables, of what is known as the soft compound of vulcanizable india rubber, faced with what is known as the hard compound of vulcanizable india rubber, or al'ied gum, united in the green or plastic state, and together subjected to the heating process for vulcanization, substantially as described."

No. 23,351. James M. Connel, of Newark, Ohio, for an "Improved submarine telegraph cable."

"I claim the introduction of the smooth-surfaced wrapping between the coil and the insulating covering, and the employment of this last covering as a core for other wires, substantially as described."

No. 23,352. Saml. Cope, of Enterprise, Ill., for an "Improvement in cheese presses."

"I do not claim a hydrostatic press, as that has been used for many purposes; but what I claim is, graduating the force of a hydrostatic cheese press by drawing the water slowly through the stop cock S, as above described, for the purpose set forth."

No. 23,353. Joseph Corduan, of Brooklyn, N.Y., for an "Improved apparatus for sounding house bells, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the three separate springs in combination with the two tubes and escapement bolt, as herein described."

No. 23,354. Waldo P. Craig, of Newport, Ky., for an "Improvement in pile driver."

"I claim as new and of my invention, and desire to secure by Letters Patent, 1st, the described application and arrangement of the guides K and K^1, attached at their upper ends by universal joints to the frame, and at their lower ends sliding in apertures e^1 and e^{11} in a collar L, adapted to fit over the end of a pile and follow the same in its descent. 2nd, in combination with the above, the turntable J, constructed and operating substantially as and for the purpose set forth."

No. 23,355. Wm. H. Crittenden, of Grafton, Ohio, for an "Improved sawing machine."

"Having thus described my improved saw mill, what I claim as new, and desire to secure by Letters Patent, is, the manner of arranging the compensating levers K, K, and rods N, N, in combination with the straining levers H, H, straining rod I, adjustable slotted holder P, saw J, the whole being arranged and operating in the manner and for the purpose as set forth."

No. 23,356. A. H. Crozier and Cyrus Carrier, of Oswego, N. Y., for an "Improved chopping block for stave machines."

"Having thus fully described our invention, what we claim as new therein, and desire to secure by Letters Patent, is, what I claim is, the grooved metallic chopping block, constructed and operating as described."

No. 23,357. F. M. Davis, of Footville, Wis., for an "Improvement in seeding machines."

"I am aware that reciprocating seed slides J have been previously used, and also that slides *k* with oblique slots *l* have been used for operating seed slides; I, therefore, do not claim the reciprocating seed slides, nor the slides *k*; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the caster wheel C, lever D, spring rack bar E, pinion bar F, pinion G, rod H, slide (*k*), and share L, as herein shown and described, so that when the bar E is thrown back and lever D is depressed the bar F will carry the pinion out of gear with wheel M, and thus render the seed slides (*k*) inoperative while the front part of the machine will be lifted on the caster wheel, and the share L raised out of the ground, all as set forth."

No. 23,358. James E. Emerson, of Sacramento, Cal., for an "Improved pick handle."

"What I claim as my invention, and desire to secure by Letters Patent, is, the iron heading of a handle fitted to the under side of a pick or other instrument, by means of a pin and hole, on corresponding plane surfaces, or a swelling and hollow corresponding to each other, and securely fastened thereto, by means of a stirrup extending over the pick or other instrument, and secured to the handle by means of a key and wedge, which will by such combination form a durable and permanent mode of fastening handles on picks or other instruments, without eyes therein."

No. 23,359. Elisha E. Everitt, of Philadelphia, Pa., for an "Improved bedstead fastening."

"What I claim as new, and desire to secure by Letters Patent, is, a plug fastening, consisting of the two plug pieces (A and A^1,) constructed as set forth and described, the same being applied and arranged, in combination with the post and rail of a bedstead, in the manner and for the purposes specified."

No. 23,360. Thos. T. Furgusson, of New York N. Y., for an "Improvement in tanning hides and skins."—Patented in France 10th August, 1858.

"What I claim as my invention, and desire to secure by Letters Patent, is, the method herein described of impregnating hides or skins with the required liquid, by subjecting them to the action of a current of the liquid, under a sustained and regulated pressure after they have been deprived of air, by a preliminary exhaustion."

No. 23,361. Alpheus C. Gallahue, of North East Centre, N. Y., for an "Improvement in machines for pegging boots and shoes."

"I do not claim a rack block E arranged so as to feed the shoe with a continuous motion underneath the awl and peg driver, for such device has been previously used; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, 1st, forming the rack bar E of two parts *e*, *f*, arranged as shown, so as to admit of being lengthened and shortened, to compensate for different length of shoes. 2nd, the adjustable or swinging plate G, in connection with the inclined planes *i*, *i*, or an equivalent device, for actuating the plate G, for the purpose set forth. 3rd, the inclined peg gauge y^1 in connection with the peg or feed box S, so as to gauge the pegs from their lower ends, as described. 4th, the vibrating socket e^1, in connection with the plunger rods *u*, *v*, arranged in the same slide bar *t*, to operate as set forth. 5th, the bar R, provided with the shoulder or bearing s^1, and rendered capable of being operated when necessary by the yoke o^1 and cam p^1, for the purpose of duplicating the row of pegs when required. 6th, the combination of the swinging bed plate D with a rack E, arranged to operate substantially as and for the purpose set forth."

No. 23,362. James Gillespie, of Freeport, Pa., for an "Improvement in revolving retorts for distilling coal oil."

"What I claim as my invention, and desire to secure by Letters Patent, is, securing the hopper like cup I in position, by means of the pins *o*, *o*, or their equivalents, surrounding the exit journal *h*, of each retort, the square headed shaft J, passing through a hollow journal at the opposite end of the retort and the external plate *p*, the whole applied and operating substantially as herein specified."

No. 23,363. Francis Gilliland, of Port Jackson, N. Y., for an "Improvement in stoves."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, in combination with the lining E, and sheet metal case B, the cylinder F placed within the body of the stove, and provided at its top with the register or sliding band *h*, and a register or slide *f* on its flanch *d*, for the purpose set forth."

No. 23,364. L. F. Goodyear, of New Haven, Conn., for an "Improved tool for cutting metal."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the adjustable wedges D, cutters C, and ring A, substantially as and for the purpose herein shown and described."

No. 23,365. Chas. Gordon, of Washington, D.C., for an "Improved protractor."

"I do not claim any of the devices separately, which are herein referred to, as they have been long known and used; but what I do claim, and desire to secure by Letters Patent, is, my improved protractor, as herein described, consisting of the base, the meridian limb, the vernier, the arc, and rulers with the clamping screw, the whole arranged and operated as specified."

No. 23,366. Albert Granger, of New York, N. Y., for a "Metallic penholder."

"What I claim as my invention, and desire to secure by Letters Patent, is, the holding of a pen on the outside of a metallic tube (commonly called a penholder), in such a manner by reason of pierces, cracks, and indentations as to leave the entire length of a pen when inserted in proper writing position, uncovered."

No. 23,367. Wm. A. Greene and John G. Treadwell, of Albany, N. Y., for an "Improvement in gridirons."

"Claim.—The check plate I attached to a stove gridiron B, when the same are constructed and arranged in the manner and for the purpose herein-before set forth."

No. 23,368. Smith Groom, of Troy, N. Y., for an "Improved hose coupling."

"I do not claim as my invention the arrangement of notched lugs and wedge-shaped flanges upon the collars of hose, in the manner shown in No. 9,768 of United States Patents; nor the arrangement of wedge-shaped flanges upon the outside of the female part, and inside of the movable ring or nut of the two halves of the coupling, as represented in the rejected application of B. F. Joslyn, May 14, 1857. Having thus set forth the construction and use of my improved hose coupling, what I claim thereof as new, and desire to secure by Letters Patent, is, the arrangement of the notched lugs *h*, *h*, and wedge-shaped flanges *e*, *e*, for conjoint operation upon the outside of the fixed part C, and movable ring B, of the two halves of the coupling, as and for the purpose herein described. And in combination with the lugs *h*, *h*, and flanges *e*, *e*, constructed and arranged upon the coupling for conjoint operation, as herein described. I also claim the ratchet teeth *j* and catch *k*, when arranged upon the two halves of the coupling, as herein described, for the purpose specified."

No. 23,369. Wm. J. Griffies, of Marietta, Geo., for an "Improvement in ploughs."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the stock 'A,' forked and slotted foot 'B, B,, screw 'E,' shovel 'F,' brace 'G,' wedge 'C,' beam 'H,' and handles 'I, I,' the whole being constructed as and for the purposes set forth."

No. 23,370. Elijah Harris, of Princeton, Ill., for an "Improvement in watchmaker's lathes."

"I do not claim the base bar, the fixed or slide heads with slide mandrels; nor the rest, as they have heretofore been known and used; nor do I claim broadly the extra slide head E; but what I do claim as my invention, and desire to secure by Letters Patent, is, the standard F, with rimmer *b*, the standard shown at Fig. 3, and the standard shown at Fig. 4, with dove-tail slide *d*, the extra slide head E, in combination with the standards F, Figs. 3 and 4, and the slide tongs, shown at Fig. 8, substantially as shown and described."

No. 23,371. Jacob Haynes, of Cameron, Ill., for an "Improvement in corn planters."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, the hinged shoe T formed with a serrated plate, and with the wings V and W, substantially in the manner and for the purpose described. I also claim the combination of the movable seat A^1, with and supported by the hinged radius bars B^1, and by the sliding bars C^1, for the purpose of enabling the driver to raise or lower the front end of the machine, substantially in the manner and for the purpose described."

No. 23,372. Francis M. Hemphill, of Newport, Ky., for an "Improvement in grinding mills."

"I claim herein as new, and of my invention, 1st, in the described combination with an adjustable bridge tree, the spindle E, confined below to the tree, and hinged above to the cup-formed driving and feeding ryne N, *n*, n^1, having a hinged attachment to the runner, and enabling a discretionary increase of the stress of the runner on the grain, by the lighter screw operating wholly from below, as set forth. 2nd, the described arrangement of the cup-formed driving and feeding ryne N, *n*, n^1, gudgeons P, P^1, bolts Q, Q, sleeves *q*, q^1, and metallic eye R, having the described or equivalent connection with a runner and spindle respectively, for the purposes set forth. 3rd, the cup-formed driving and feeding ryne N, *n*, n^1, having the described or equivalent hinged attachments to the spindle and to the runner respectively, and operating as set forth. 4th, the frame A, B, C, constructed substantially as and for the purpose set forth."

No. 23,373. Russel Hickok, of Fort Edward, N.Y., for an "Improved insulator for lightning rods."

"Having thus described the construction of my improved insulator for lightning rods, what I claim as new, and desire to secure by Letters Patent, is, a lightning rod insulator, made in one piece so as to support and insulate the rod, and also leave open spaces for water to pass through it, and for air, when suddenly expanded, to escape from within it, as herein set forth."

No. 23,374. Gardner P. Hopkins, of Cabot, Vt., for an "Improved churn."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of the churn in the manner herein-before described, so as to combine the rotary motion of the barrel with the up and down and rotary motion of the dashers, and so as to prevent the cream from acquiring a circular motion in the process of churning."

No. 23,375. Robt. Jobson, of Wordsley, England, for an "Improvement in making moulds for casting."—Patented in England 31st May, 1856.

"Having thus described the nature of my invention, and the manner of performing the same, I would have it understood that I make no claim to the mechanical parts separately; but what I do claim is constructing the table platform or bed *b*, so that it may turn on or about necks, or axes, substantia'ly as herein described."

No. 23,376. Henry R. Keese, of Bridport, Vt., for an "Improvement in harvesters."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the employment of a hinged supplemental frame D, in combination with the main frame A and driving wheel B, when the said frame D is provided with an adjustable bearing wheel E, or its equivalent, all substantially as and for the purpose herein shown and described. 2d, the combination of a driver's seat G with the supplemental frame D and driving wheel B, as set forth, so that by lateral change of his position the driver may elevate or depress the cutters or diminish the traction, and otherwise balance and govern the machine all as herein shown and described. 3rd, hinging the supplemental frame D to the main frame A, substantially as and for the purpose set forth."

No. 23,377. Rufus S. Lee and Wm. D. Leavitt, of Cincinnati, O., for an "Improvement in rocker boxes for saw shafts."

"Having thus fully described the nature and object of our invention, what we claim therein as new, and desire to secure by Letters Patent, is, so connecting the inner to the outer box, through the medium of a spring, as that said inner box or bearing may have end motion in the outer one against the action of said spring, substantially as described and for the purpose set forth. And we also claim, in combination with the elastic or spring connection between the inner and outer box, the rollers *h*, *h*, for the inner box to move on, substantially as set forth and described."

No. 23,378. Edwd. Lindner, of New York, N. Y., for an "Improvement in breech-loading fire-arms."

"Having thus described my improvements in fire-arms, what I claim as new, and desire to secure by Letters Patent, is, firstly, the method herein described for operating or closing the breech, and forming a tight joint at the junction of the barrel with the breech, by the employment of a screw ferrule or sleeve fitting an outer screw thread on the barrel, and provided with a projecting annular flange for grasping and releasing the breech, and for drawing the same backwards and forwards in the direction of the barrel to or from the rear end thereof, upon said screw-threaded sleeve being operated substantially as herein described. 2nd, I claim, in combination with a movable box within the breech, constructed and operating as described, the packing thereof, by means of asbestos or its equivalent, substantially in the manner and for the purposes described. Thirdly, locking the screw-threaded sleeve that operates the breech by forming the pivoted lever which serves to turn said sleeve with an eccentric or cam, arranged to act upon a locking pin by pressing down said lever after the breech is drawn tight, as herein set forth."

No. 23,379. Wm. H. Lochman, of York, Pa., for "Improved portable writing desks."

"What I claim as my invention, and desire to secure by Letters Patent, is, the mode and manner of uniting the different parts of a writing desk by hinges, or their equiva-

lents, so as to admit of its being folded up into a comparatively small place, in the manner substantially as herein set forth."

No. 23,380. MATTHIAS LUDLUM, of Fair Haven, Vermont, for an "Improved life boat."

"What is here claimed as new and useful is, providing the exterior of the boat with adjustable side floats, constructed and hung, or arranged to operate in or at different fixed positions or distances to or from the sides of the boat, substantially as herein set forth. Also, providing either float, arranged along the outsides of a boat, with an open or trellis-work railing made to project below the float, essentially as specified."

No. 23,381. CHAS. MEYER, of Fonddu Lac, Wis., for an "Improved expanding auger."

"I am well aware that expanding augers have been before constructed in which the sections are moved in and out concentrically, but not in the same manner, nor by the same means; and I also know that the dies of universal chucks have been operated heretofore in a manner similar to that in which I operate my cutters, but this is for an entirely different purpose, and I do not claim, therefore, the expanding cutters, neither do I claim, separately, the manner of expanding the sections; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, as a new article of manufacture, is, an expanding augur constructed and operated substantially as herein described."

No. 23,382. JOHN G. MITCHELL, of Collington, Md., for an "Improvemeut in corn planters."

"What I claim, and desire to secure by Letters Patent, is, the combination of the swinging hopper H, constructed and arranged as described, with the adjustable coverer and dropping tubes, the whole arranged for joint operation, in the manner set forth."

No. 23,383. J. A. MOORE and A. H. PATCH, of Louisville, Ky., for an "Improvement in harvesters."

"What we claim as our invention, and desire to secure by Letters Patent, is, 1st, the enlargement, as at z, of the curved slots f, of the standards G, substantially as and for the purposes set forth. 2nd, the arrangement, relatively to each other, of the vertically perforated curved stop bar H, slide d, constructed as described, and lever F, for the purpose set forth."

No. 23,384. SAML. MORRETT, of West Pennsboro', Pa., for an "Improvement in preserve cans."

"What I claim as my invention, and desire to secure by Letters Patent, is, the covering of fruit cans by means of the concave cover B, when the same is constructed and applied as herein-before described and retained in place solely by atmospheric pressure."

No. 23,385. HENRY W. MOSHER and JOSEPH A. CONBOIE, of New York, N.Y., for an "Improved apparatus for cleansing bristles."

"We do not confine ourselves to any particular number of clamps on the shaft D, nor to any particular arrangement thereof, for various modifications of the same may be used. Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the rotating bristle clamps E, placed within a cylindrical box or case A, provided with diagonal plates c, and used with or without the brush C and soap bar, or other cleansing substance h^1, substantially as and for the purpose set forth."

No. 23,386. JOHN PACKER, of Philadelphia, Pa., for an "Improvement in hay mangers."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combining with a hay manger a falling rack B to prevent the horses from pulling out and unnecessarily wasting the hay therein, and as herein described and represented."

No. 23,387. JOHN PATRICK, of New York, N.Y., for an "Improvement in ventilating vault cover."

"What I claim as my invention, and desire to secure by Letters Patent, is, the perforated plate and gutter, in combination with the metallic roof, ceiling, or walk for forming a ventilating space, and catching any water of condensation, in the manner and for the purposes specified. And in combination therewith, I claim the ventilating-pipe d, as and for the purposes specified."

No. 23,388. WM. PATTERSON, of Constantine, Mich., for an "Improved machine for bending tire."

"Having fully described the nature of my improvements, I do not claim the method of bending tire by means of the segment lever and clevis, neither the combination of these elements as they exist in the Patent to Aaron Whitcomb; but I claim connecting the clevis to the lever and segment in such manner that the lever will cause the clevis to grasp and release its hold on the bar to be bent, independently of and before said segment commences to move, as illustrated by the red lines in figs. 2 and 3 of the drawings. 2nd, providing the outer end of the clevis with an arm L, l, so arranged in relation to the circumference of the segment as to bear against the outer side of the tire, and support it (while being bent) above the end of the segment, as represented in figs. 2 and 3, thereby preserving the circle of the tire, by preventing it from springing back during the descent of the lever. 3rd, making the clevis adjustable for the purpose of adapting it to the use of different sized segments in the same machine as described."

No. 23,389. HENRY C. PEIRSON, of Philadelphia, Pa., for an "Improved hoop machine."

"Having thus fully described my improved hoop making machine, I proceed to state that what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the series of bending rollers (D, D^1, D^{11},) or their equivalents in rear of the cutter (B) or its equivalent, so as to operate upon the hoops, substantially in the manner and for the purpose specified, as the said hoops pass between them directly from the said cutters."

No. 23,390. RANSOM S. POTTER, of Chicago, Ill., for an "Improvement in railroad coupling chair."

"I do not claim as my invention, a chair with one key or wedge running its entire length; nor do I claim a chair with a cavity for one key or wedge only; nor do I claim broadly, the use of two wedges or keys in combination with a railroad chair; but what I do claim, is the use of two wedges or keys, in combination with a railroad chair, when the outer lip of said chair is overhung, in the manner described and shown, and its inner surface is of a canoidal form, as specified."

No. 23,391. DANIEL R. PRINDLE, of Bethany, N.Y., for an "Improvement in seed-planters."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, first, hinging the frame that carries the seeding devices, and the beams that carry the furrow opener and coverer to the axle, substantially as and for the purpose set forth. I also claim, in combination with the axle and hinged frame and beams, the tongue and lever, for raising, lowering, or controlling the planting and covering devices, substantially as described. I also claim the adjustable hinged clevis irons, made, arranged, and operating as herein set forth. I also claim the combination of the curved spring plates g and springs i, as applied to the seeding wheels, or cylinders, for the purpose explained."

No. 23,392. DANIEL READ, of Hamilton, N. Y., for an "Improved clothes frame."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the standard with the arms A, B, C, D, the standard i, i, and braces E, F, G, substantially as and for the purposes specified."

No. 23,393. LEWIS L. REYNOLDS, of Manchester, N. H., for an "Improvement in machinery for filling loom harness needles."

"I do not claim the mere passing of the twine over the tongue of the needle, as it is old, having been done some twenty years since, by a Mr. Wilson, of Lowell, Mass.; but I claim the hooks F, or the equivalent thereof, for depositing the twine or cord upon the outer sides of the score of the needle, when combined with a device for delivering the twine or cord to said hooks. 2nd, I claim the combination of the intermittent rotating oval-shaped pin O with the cam N, or their equivalents, for depositing the twine or cord evenly around the end P of the needle."

No. 23,394. L. SIMPSON REYNOLDS, of Indianopolis, Ind., for an "Improvement in friction bolt for flour mills."

"What I claim and desire to secure by Letters Patent, is, first, the sliding knockers D, D, D, D, D, D, in combination with the shaft K, ribs H, H, H, H, H, H, and rods E, E, E, E, E when constructed and operated substantially as and for the

purposes set forth. Second, the springs G, G, G, G, G, G, in combination with the knockers D, &c. when operated substantially as and for the purposes set forth. Third, the elastic bridge tree I, when used substantially as and for the purposes set forth."

No. 23,395. Thos. A. Robertson, of Washington, D. C., for an "Improvement in cultivators."

"What I claim as my improvement in weeding plows, is, the wing A, extending obliquely from the rear standard E to a point *d*, from which point projects a straight portion, or divider B, in combination with the oblique cutting bar G, as described."

No. 23,396. H. R. Robbins, of Baltimore, Md., for an "Improvement in stoves."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the fire chamber A with the inclined front encircling transparent face-plate E, heat pot B, pedestal F, with its doors *b*, *b*, upper back encircling chamber H, with its doors *f*, and divided horizontally as described; smoke and heat pipes I and *g*, *g*, *i*, and back case or reflecting bonnet K, having a conduit *m* arranged to conduct air to the one perforated passage of the upper back encircling chamber H, as described, the whole being arranged for operation substantially as specified."

No. 23,397. I. G. Roux, of Raymond, Miss., for an "Improvement in cotton presses."

"I am aware that cams and levers have been arranged in various ways for operating the followers of cotton presses, and I do not claim, separately or irrespective of the arrangement shown, any of the parts herein described; but, having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the rotating platform B, provided with helical ledges or rails F, F, in combination with the blocks E, E, placed on the ledges or rails, the levers J, J, attached to the follower I, and the stationary press box G, the whole being arranged to operate as and for the purpose set forth."

No. 23,398. James L. Rowley, of Angola, Ind., for an "Improvement in railroad cattle guard."

"Having thus fully described my improved cattle guard, what I claim as new, and desire to secure by Letters Patent, is, I claim the springs C, C, and bar D, in combination with the chain fender F, E, and post J, when constructed and operated in the manner and for the purposes above described."

No. 23,399. Isaac S. Russell and Henry R. Russell, of New Market, Md., for an "Improvement in harvesters."

"What we claim as our invention, and desire to secure by Letters Patent, is, the peculiar arrangement of mechanism consisting of two segment bevel wheels G, H, two spur wheels K, K, an independently turning hub E having a slotted plate F attached to it, and a crank arm I having a turning crank pin J for giving motion to the rake round the reel in the path of a vertical circle, and over the platform in the path of a horizontal circle, substantially as set forth."

No. 23,400. Erhard Schlanker, of Buffalo, N.Y., for an "Improved forging machine."

"I am aware of D. Noyes', of Abington, revolving forging machine of mass, and of attaching the hammer or hammers each by a pivot to a revolving disk or crank, so as to revolve therewith, and controlling the position thereof by stops attached to the face of the disk or crank, and of drawing the hammer or hammers lengthwise off the anvil, which I disclaim as being original in principle, but defective in operation, by the use of the stops affixed to the disks or imaginary crank. What I claim as my improvements, and desire to secure by Letters Patent, are, viz., that portion of the hammer shafts Q, Q, from the center pins *v*, *v*, extending towards the driving shaft W, to be used as a lever in controlling the hammers D, D, the center pins *v*, *v*, being the fulcrums in connection with the wrists and friction rollers *y*, *y*, and *x*, *x*, the location and position of the spring cams *s*, *s*, upon the duplicate face plates F*a*, F*b*. The sections E, E, and the independent operating crank cams R, R, guide plate *a*, cranks *h*, *h*, levers *c* and *f*, connecting rods *d* and *d*, *u*, as described in the foregoing specification."

No. 23,401. Isaac C. Shuler, of Amsterdam, N.Y., for an "Improvement in coffins."

"Having thus described my invention, I claim, 1st, the manner of forming a recess in the sheet metal all around the base inside of a metal coffin; also the arrangement of placing an iron frame, or its equivalent, into the recess described, fastening it firmly to the sheet metal all around the body of the coffin, for the purpose of stiffening the lower edges of the same. Claim 2. I do not claim the ribs (X) separately, as I do not consider them patentable, but the ribs being peculiarly arranged by being placed under the flange which supports the rim (E) and fastened to the frame (D) in the recess at the bottom. I claim this peculiar arrangement for the purpose of stiffening the sides and end, so as to sustain a heavy weight of earth; also for the purpose of preventing the sides from bilging out when the handles are placed about an equal distance between the upper and lower edges of a sheet metal coffin, substantially as set forth. Claim 3d. The arrangement of pressing or rolling around the outer edge of the cover of a sheet-metal coffin an inverted bead, which forms a tongue on the bottom side of the cover, so arranged as to fill the groove in the upper surface of the rim E, for the purposes of soldering or cementing the joints, as described and set forth. Claim 4th. The arrangement of placing a galvanized iron rim, or its equivalent, on the outside and over the upper edge of the walls of a sheet-metal coffin, fastening the same permanently to a flange formed all around the upper edge of the walls, for the purpose of shaping and strengthening the upper part of the coffin, at the same time furnishing a means of securing the coffin top at the joints. Claim 5th, I am aware that I have claimed in a former Patent an iron frame as a cover over the soldered joints on the top of a sheet-metal coffin, I, therefore, disclaim it as an entire frame; but I claim the bisection of the frame (H), and its re-connection by means of spring ketches at the widest part or break of the coffin, substantially as set forth."

No. 23,402. John Smalley, of Bound Brook, N. J., for an "Improvement in cultivators."

"I do not claim broadly hanging the main wheels of a cultivator to cranked axles for the purpose of deciding the depth to which the teeth shall penetrate the ground, as such a device has been heretofore used in cultivators; nor do I claim a central lever for operating the cranked axle, or the plow-formed teeth, or any other part of the machine separately; what I claim, and desire to secure by Letters Patent, the frame, its adjustable pole, its teeth *m*, *m*^{1}, *n*, *n*^{1}, and detachable teeth *p*, *p*^{1}, the cranked shaft C, its central lever E, and driver's seat G, when the said seat is so situated as regards the handle that the driver can operate the latter without moving from the seat, and when the whole of the parts are arranged in respect to each other substantially as set forth."

No. 23,403. Michael Simmons, of Ira., Ill., for an "Improvement in seeding machines."

"What I claim is, first, the use of the eccentrically cut gear wheel D so as to enable me to get my pinion *a* and pinion shaft *b* on top of the frame and above the centre of the wheel that drives it, substantially as described. I also claim the arrangement of the beams H with their skewed shovels and adjustable connections, so that they may be transposed from side to side of the machine at pleasure, in the manner and for the purpose herein set forth and explained."

No. 23,404. Chas. F. Spencer, of Rochester, N.Y., for an "Improved spring bedstead."

"I am aware that wooden slats with metallic springs have been used, and that a Patent was granted November 16th, 1858, in which the slats are permanently attached at one end with wooden springs attached at the middle of each resting against a transverse bar, but differing in arrangement and effect from mine; therefore I do not claim broadly the use of spring slats; but I claim the combination and arrangement of the spring slats E, F, with the bars A, A, and fulcra B, B, the latter arranged to increase or diminish the effect and horizontal slats G resting at once on the free ends of each reverse series, substantially in the manner and for the purpose herein described."

No. 23,405. Geo. H. Starbuck and L. D. Gilman, of Troy, N. Y., for an "Improvement in smut mills."

"Having thus described our machine, what we claim as new, and desire to secure by Letters Patent, is, 1st, the combination of the two scouring plates *a*, *a*, *a*, placed one above the other, with their roughened or burred surfaces towards each other, in combination with the funneling plates E, for depositing the grain at the centre of the scourers, between which it is passed, forming a double scourer attached to and revolving with the shaft K, operated in the manner and for the purpose set forth; we do not confine ourselves to any number of scourers for a machine. 2d, the vertical cylindrical opening, as shown at I, in combination with the outer case K, screen *f*, and fans *h*, for the purpose of giving free discharge to all light impurities and foreign matter, and preventing the discharge of grain."

No. 23,406. R. H. St. John, of Bellefontaine, Ohio, for an "Improvement in watchmaker's lathe."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the

steel ring (D), springs (*d*, *d*,) set screws (*a*, *a*,) and centering plate E, substantially as herein described for the purpose set forth. I also claim the employment of the screw cap (G) for clamping the article to be centered in the manner herein specified."

No. 23,407. J. C. Stoddard, of Worcester, Mass., for an "Improvement in cultivators."

"I do not claim separately, the share A, with adjustable or expanding wings or blades C, C, attached, for that has been previously used; neither do I claim the shares *m*, for they also have previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the share A and wings or blades C, C, arranged relatively with the wheel or wheels H, H, that is to say, placing the wheel or wheels behind the share A, and between the wings or blades C, C, substantially as and for the purpose set forth. 2nd, the adjustable rotating scrapers J, applied to the wings or blades C, and arranged to operate as and for the purpose set forth. 3rd, the combination of the lateral adjustable hoes *m*, share A, adjustable wings or blades C, C, rotating scrapers J, wheels H, one or more, arranged for joint operation, substantially as and for the purpose set forth."

No. 23,407. J. C. Stoddard, of Worcester, Mass., for an "Improvement in machines for digging potatoes."

"I do not claim an inclined screen with a share attached to its lower end, for the purpose of digging potatoes, for such device has been previously used; nor do I claim a receptacle attached to the machine, for the purpose of receiving the potatoes; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, 1st, the weed eradicator, formed of the vibrating plate g^1, with serrated flanches h^1 attached, and arranged to operate as and for the purpose set forth. 2nd, the inclined adjustable screen box D, provided with a share E and spur $j\times$ at its lower end, in combination with the endless chain of carriers F, arranged to operate in grooves *o*, *o*, substantially as and for the purpose set forth. 3rd, the combination of the weed eradicator, leveling share N, inclined adjustable screen box D, with share E attached, and endless chain of carriers F, with or without the receptacle C, arranged for joint operation, substantially as and for the purpose set forth. 4th, the adjustable or movable roller shaft L, applied to the machine, and arranged to operate as and for the purpose set forth."

No. 23,409. N. G. Thom, of Cincinnati, Ohio, for an "Improved manufacture of wood screws."

"I do not confine myself to any particular form of construction, as to size, shape, &c., as these may be varied indefinitely, and the same construction is applicable to coach or lag screws, or any other screw, in which wood or other yielding substance constitute the material into which the screw is driven. I am aware that a tapering screw point has been long used upon augers, gimblets, &c., and I therefore do not claim that feature as any part of my present invention; but what I do claim as my invention, and desire to secure by Letters Patent as a new manufacture, is, the within described wood screw, the characteristic feature of which consists in its having two or more parallel threads that terminate at or near the point of a tapering core, substantially as described."

No. 23,410. John S. Thompson and Marvin J. Seymour, of Glenn's Falls, N. Y., for an "Improvement in cresset for heading barrels."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the arrangement of an annular bed D at the base of the apparatus, and above these cape flue C, to receive and support the barrel, as and for the purpose herein shown and described."

No. 23,411. Saml. E. Tompkins, of Newark, N. J., for an "Improvement in saddles."

"I am aware that cast metal saddle trees have been previously used, and also, that safety guards or bridges have been attached to trees, to keep the back band from the back of the horse. I therefore do not claim, broadly, the above; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, the bow pieces *b*, *e*, connected with the sides *a*, *a*, and provided, respectively, with the head *c*, and cantel *f*, in connection with the central bow piece or 'safety guard' *g*, when the parts are placed relatively with each other, so as to admit of being cast in one piece, to form a new and improved saddle tree, as herein set forth. I further claim, in connection with the saddle tree formed as above, the crupper loop *j*, attached to the cantel bow piece *e*, by means of the plate *i*, substantially as and for the purpose specified."

No. 23,412. Freeman E. Tupper, of Nashua, N. H., for an "Improvement in stoves."

"Having described my improved coal and gas stove, what I claim therein as new, and desire to secure by Letters Patent, is, the arrangement of the air chamber C, with its air passages or tubes G, and apertures *d*, and openings *i*, *i*, *i*, with the casing A, and supporting and deflecting collar F, substantially in the manner and for the purposes above set forth."

No. 23,413. Saml. W. Tyler, of Greenwich, N. Y., for an "Improvement in harvesters."

"Having thus fully described my improvements in the cutting apparatus of harvesting machines, what I claim therein, as new, and desire to secure by Letters Patent, is, giving such a shape to the portions *a* and *h*, of the finger bar, and to the flanged portions or heads of the fingers *d*, *d*, that the same set of rivets will unite all the said parts with each other, into a fingered bar of unusual stiffness, strength, and narrowness, and at the same time form a dovetail groove for the reception and guidance of the cutter bar, substantially as herein set forth."

No. 23,414. Nathan Washburn, of Worcester, Mass., for an "Improved machine for rolling wheel tire."

"What I claim, is, the combination of a set of reducing rollers A, B, a series of adjustable carrying rollers *d*, *d*, *d*, &c. (or their equivalents), and a frame or holder G, supported so as to be capable of rising upward within the wheel tire in proportion as the diameter of the inner periphery of the said tire may increase, during the process of rolling the tire, and having the said carrying rollers arranged and made adjustable with respect to it and the reducing rollers in manner substantially as herein before specified."

No. 23,415. E. B. Way, of Jerseyville, Ill., for an "Improvement in clod crushers."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment of the oblique sided double tapered slats (*f*) in combination with rims (d^1, d^1, *e*,) so that the clods that wedge between the slats, will be carried up, and then dropped, and then broken within the wheel, as herein shown and described."

No. 23,416. John Wagner, of Pittsburgh, Pa., for an "Improved sausage stuffer."

"Having thus fully described my improved sausage stuffer I wish it distinctly understood, that I do not claim the endless screw, or 'worm and wheel' this being a well known mechanical device, though the same has to my knowledge, not been used before in sausage stuffers, nor do I claim any other part of wheel gear arrangement, when considered by itself; but what I do claim as new, and desire to secure by Letters Patent, is, the arrangement of using, in addition to the operating crank *c*, for the forward motion, another operating crank *s*, or its equivalent, for the backward motion, when applied to the wheel gear arrangement of 'worm and wheel,' in the manner as herein described, viz., when set on the spindle *a*, of the screw wheel F, substantially as and for the purpose herein set forth."

No. 23,417. Wm. Webber, jr., and John Webber, of Rockton, Ill., for an "Improvement in harvesting machines."

"What we claim as our invention, and desire to secure by Letters Patent, is, operating the rake of a harvester by means of the horizontally oscillating arms *c* and *h*, the rod *g*, and the latch *i*, when the said parts are arranged relatively to each other and to the other parts of the machine, in the manner herein set forth."

No. 23,418. T. J. Whitehead, of South Paris, Me., for an "Improvement in stoves."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination with the fire chamber described, and with an oven having hollow walls filled in with non-conducting material of a removable fire chamber casing, which has hollow walls filled in with a non-conducting material, and is in shape, externally, nearly the counterpart of the fire chamber, and serves for encasing the whole of the exposed portion of the fire chamber, and at the same time allows access to the holes in the top of the fire chamber, and to the fuel door thereof, substantially as and for the purposes set forth."

No. 23,419. W. L. Williams, of New York, N. Y., for an "Improved foot scraper."

"I am aware that brushes have been applied to and used in connection with scrapers, but not, so far as I am aware, arranged as herein described, therefore I do not claim, irrespective of arrangement, the employment or use of brushes and a scraper; what I do claim as new, and desire to secure by Letters Patent, is, the employment or use of the scraper B, and the brushes F, G, either with or without the brush J, combined and arranged to operate, substantially as and for the purpose set forth."

No. 23,420. John Wood, of Brooklyn, N. Y., for an "Improved method of operating the knife in riving shingles."

"I do not claim the rhomboidal reciprocating gate O with knife P attached, for this has been previously used, but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, giving the frame C, in which the reciprocating knife gate O is placed an intermittingly vibrating movement simultaneous with the feed movement of the bolt, substantially as and for the purpose herein set forth."

No. 23,421. Nathan Ames, of Saugus, Mass., assignor to himself and Nathl. Evans, jr., of Boston, Mass., for a "Self-feeding press for printing cards and bill heads."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the little cams or projections *a*, *b*, arranged in reference to the ink rollers and operating in connection with them and the vibrating type bed, substantially as and for the objects described. 2, the combination and arrangement of the spring P, hinged piece H, type bed E, and spring L, substantially in the manner and for the purposes set forth. 3rd, attaching the type bed E (as shown in Fig. 4) at one of its sides only to the arm D, so that the inking rollers N, N^1, may pass over and under it, substantially as described. 4th, the pitman r^1, screw *r*, top piece X, slot *j*, and slides *e*, e^1, when combined, arranged, and operating substantially as set forth. 5th, attaching the feeding plate *f*, as described, to the slide *e*, and causing the latter to move in the groove *g*, so that while the upper side of *f* bears on the surface of X, the thickness of *e* extending below it prevents the card from ever getting between the surfaces of *f* and X. 6th, the adjustable guide *l*, constructed and arranged substantially as and for the purpose described. 7th, the adjustable lateral guides *m*, *m*, arranged as set forth and for the purpose described. 8th, the card pusher Z^1, provided with the slots P, P, and 8, substantially in the manner and for the purposes described."

No. 23,422. Elisha D. Blakeman, of New Lebenon, N. Y., assignor to Jacob J. Auchampaugh and Levi Auchampaugh, of same place, for a "Fly-trap."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the combination and arrangement of the poison cups *m* and *n* with the conical chamber B, and bed-plate A, substantially as and for the purpose set for th."

No. 23,423. James W. Carrier, of Springfield, Mass., assignor to himself and Abel B. Howe, of same place, for an "Improvement in car coupling."

"What I claim as my invention, and desire to secure by Letters Patent, is, the sliding bunter A, connection pin *d*, pin *p*, springs *r* and *l*, straps *m*, sliding pin B, springs *k*, *k*, rack *f*, pinion *g*, ratchet *s*, pawl *t*, and pin *v*, when combined and arranged substantially as herein described."

No. 23,424. Chas. W. Carter, of Westville, Ind., assignor to Lester L. Bond and Geo. Coatsworth, of Chicago, Ill., for an "Improvement in corn shellers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the sectional truncated cone P, constructed as described, with the pintle S, guide spring U, and hinge R, and arranged to operate in combination with the outer cone O, in the manner and for the purposes specified."

No. 23,425. Henry B. Comer, of Temperanceville, Pa., assignor to himself and Joseph S. Lewis, of same place, for an "Improved machine for rolling iron."

"I wish it to be clearly understood, that I do not claim the use of guides in general. Having thus described the nature, construction, and operation of my improvement what I claim as of my invention, and desire to secure by Letters Patent of the United States, is, furnishing rolls, which are placed in front of each other and on parallel lines with guides placed between each set of rolls, said guides being so constructed that they will guide and change the position of the iron as it passes from one set of rolls into another set, as herein described and set forth."

No. 23,426. Eleazar S. Gardner, of New York, N. Y., assignor to Gardner and Decker, of same place, for an "Improved machine for preparing mouldings for picture frames."

"What I claim, and desire to secure by Letters Patent, the revolving rollers, arranged and operating substantially as described, in combination with the scraper *n*, for the purpose specified."

No. 23,427. Joseph E. Holmes, of Newark, Ohio, assignor to himself and Joseph Palmer, of New York City, for an "Improvement in retorts for distilling coal oil."

"I do not claim the invention of a revolving retort, that being specified in the French Patent of Mr. Ajasson de Grandsague, dated Octr. 9th, 1839; neither do I claim the introduction of steam into the retort during the distilling process; but what I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination with the internal vapor pipe E, F, of a leg E^1, so applied as to keep the mouth of the said pipe in the upper part of the retort either by the direct action upon it of the force of gravitation or by its dragging in the coal or other matter in the lower part of the retort. 2nd, the arrangement of the steam pipe *a* to communicate through the hollow journal, with a passage in the leg E of the vapor pipe E, F, for the admission of steam directly into and among the charge, substantially as herein specified."

No. 23,428. Henry J. Lewis, of Brooklyn, N. Y., assignor to himself and Richd. A. Lewis, of New York City, for an "Improvement in camera stands."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the braces (*f*, *f*, *f*), and screw clamping blocks (*i*, *i*, *i*), or their equivalents, with the legs (*a*), in substantially the manner and for the purposes specified."

No. 23,429. E. L. Pratt, of Philadelphia, Pa., assignor to himself and R. B. Fitts, of same place, for an "Improved milk pan."

"I claim, and desire to secure by Letters Patent, as a new manufacture, a pan with a detachable or hinged cover, forming, when combined, a vessel closed, with the exception of a series of minute perforations below for the access of cold air, and a suitable distance above the latter, another series of perforations for the exit of warm air and gases, and otherwise constructed, substantially as herein set forth, and for the purpose specified."

No. 23,430. Alonzo R. Root, of Keokuk, Iowa, assignor to Rufus S. Rickey, of same place, for an "Improvement in seeding machines."

"I do not claim the invention of the 'revolving head' of Mr. Ring; nor the application of the centrifugal force to the purpose of seed sowing; nor any other principle secured to A. Ring, Esq., by Letters Patent; but what I do claim as my invention, and desire to secure by Letters Patent, is, first, in combination with the hopper I, and the revolving tubes or arms, the regulator B, constructed and operating therewith, substantially as described. I also claim, in combination with the regulator and revolving tubes or arms, the vertical and inclined partitions C, C, and lip D, for the purpose of directing the seed to be sown from the hopper to the openings in the arms or tubes, and to prevent the seed from escaping unduly through the arm or tube, for the time being, immediately under the lip, substantially as herein described."

No. 23,431. Geo. Selser, of Philadelphia, Pa., assignor to himself, J. Cook, and W. Cook, of same place, for an "Improvement in grinding mills."

"I claim, and desire to secure by Letters Patent, attaching the hollow steel burr to the spindle D, by screwing or otherwise securing the end of the latter to a plate I, which is fitted snugly to the inside of the burr *a*, shoulder *e*, on the spindle bearing on the top of the burr, as herein set forth."

No. 23,432. JOHN TAGGART, of Roxbury, Mass., assignor to himself and Geo. R. Sampson, of Brookline, Mass., for an "Improved marine propeller."

"But what I do claim is, my improved mode of propelling a navigable vessel through the water, viz., by the conjoint action of two separate rotary or screw propellers E and F, respectively operating or screwing into the water and air, arranged and combined, substantially as described, and propelled by a steam engine or motor within or carried by the vessel. I also claim arranging the air screw propeller F, or its axis, at an inclination upward from the keel or plane of floatation of the vessel, substantially as shown in Figure 2, in order that the said propeller, while being rotated, may operate, not only to draw the vessel ahead, but to lift her bow, more or less, out of water."

No. 23,433. DAVIS L. WEATHERHEAD, of Philadelphia, Pa., assignor to himself and S. E. Southland, of same place, for an "Improvement in gas retorts."

"I claim, and desire to secure by Letters Patent, the cap E, with its box or reservoir F, when arranged in respect to the lower chamber A, the upper chamber B, and exit pipe D of the retort, substantially as and for the purpose herein set forth."

No. 23,434. OLIVE ANN BROOKS, of Great Falls, N. Y., Administrix of the estate of Lebbeus Brooks, deceased, late of Great Falls aforesaid, for an "Improved saw set."

"What is herein claimed as the invention of the said Lebbeus Brooks, is, the arrangement and application of the benders and bending screw together, and with respect to the two handles, substantially as set forth, whereby the center of motion of the benders is at the place of contact, or the vertex of the angle of their upper surfaces, and no fulcrum pin is employed for the support and connection of the levers."

RE-ISSUES.

CHARLES C. ALGER, of Newburgh, N. Y., for an "Improved smelting furnace."—Patented 30th June, 1857.—Re-issued 29th March, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, constructing furnaces with the hearth and boshes of an eliptical or elongated form, substantially as described in combination with the application of the blast at the sides, so arranged as to introduce the blast in the direction of the breadth and for the purposes specified. I also claim, in combination with the hearth and boshes made of an eliptical or elongated form substantially as described, the construction of such furnaces with two mouths, one at each end, for working and tapping, substantially as and for the purpose specified."

ISAAC L. DEVOE, of Staten Island, N. Y., assignee through mesne assignment of Samuel M. Perry, of New York, N.Y., for an "Improvement in reclining chairs for railroad cars and other uses."—Patented 27th July, 1852.—Re-issued 29th March, 1859.

"Having thus described this improved reclining chair, what I claim as the invention of Saml. M. Perry, is,—First, to so combine the back D with the two end frames B, C, by means of bars E, F, jointed to it one or two studs (*a*), and one or two series of notches (*d*, *d*,) or equivalents therefor, that the said back when not a reversable one may be raised and inclined in various positions, so as to not only support the back but the head of a person at the same time. Second, making the back reversable by means of two series of notches *d*, *d*, and *e*, *e*, &c., and two sets of studs *b*, or equivalents, the same being arranged on opposite sides of the chair and made to operate as specified. Third, the improvement of making each arm or bar E, F, with a rack or racks of teeth, or succession of notches (or equivalents therefor), for the purpose of adjusting and securing the back in the desired position, whereby the occupant can alter or vary said position without rising from the seat, substantially as set forth."

DESIGN.

EDWARD REYNOLDS, of Boston, Mass,, assignor to Thomas W. Brown, of said Boston, for "Design for hat racks.

"I claim the new ornamental design of hat rack, as represented and described."

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 552. TUESDAY, APRIL 19, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

2793. DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the county of Northumberland, Doctor of Medicine, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in indicating gauges."

As set forth in his petition, recorded in the said office on the 6th day of December, 1858.

2797. And JAMES EDWARD BOYD, of Hither Green, Lewisham, in the county of Kent, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of taps, valves, cocks, spiggotts, or other apparatus or instruments for guaging or for drawing off the liquid or fluid contents of any cask, butt, vat, barrel, or other vessel."

2800. And JOHN WHITELEY, of Halifax, in the county of York, Machine Maker, and THOMAS KITCHENMAN, of the same place, Stuff Presser, have given the like notice in respect of the invention of "Improvements in press plates or apparatus employed in hot pressing woven fabrics."

2803. And JOSEPH G. E. LARNED, of the city of Brooklyn, in the state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in the construction and arrangement of the boilers and working parts of steam fire engines, part of which is applicable to engines for other purposes."

2806. And WILLIAM BURNESS, of 2, Prospect Terrace, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in pumping and forcing liquids."

2808. And JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, and FREDERICK HENRY ENGLAND, Manager of Foomhall Mills, Stroud, have given the like notice in respect of the invention of "Improvements applicable to machinery for carding, scribbling, and condensing wool and other fibrous substances."

As set forth in their respective petitions, all recorded in the said office on the 7th day of December, 1858.

2810. And GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, has given the like notice in respect of the invention of "Improvements in apparatus applicable to the manufacture and revivification of animal or vegetable charcoal."

2811. And CHARLES DE CAPPOT and ALEXANDER JARRIANT, of No. 10, Route de la Révolte, Neuilly-sur-Seine, in the empire of France, Civil Engineers, have given the like notice in respect of the invention of "A new hydraulic counter."

2817. And CHARLES MARTIN WESTMACOTT, of Arboretum Street, Litchurch, near Derby, in the county of Derby, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."

2818. And HENRY MEIDINGER, of the University of Heidelberg, Germany, has given the like notice in respect of the invention of "Improvements in electric batteries."

As set forth in their respective petitions, all recorded in the said office on the 8th day of December, 1858.

2826. And JAMES STEWART, of 69, Tottenham Court Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the construction of the action of pianofortes."

2831. And BERNARD LAUTH, late of Pittsburgh, state of Pennsylvania, U.S.A., but now residing at Morley's Hotel, Trafalgar Square, in the city of Westminster, Mechanician, has given the like notice

in respect of the invention of "An improved mode of manufacturing rods and shafts."

As set forth in their respective petitions, both recorded in the said office on the 9th day of December, 1858.

2833. And JOHN LIGHTFOOT, of Accrington, in the county of Lancaster, Calico Printer, has given the like notice in respect of the invention of "Improvements in printing or staining yarns, fabrics, or fibrous substances, and in the manufacture of certain compounds for that purpose."

2837. And CHARLES HODGSON, of Ballard Rathdrum, in the county of Wicklow, Ireland, Esquire, has given the like notice in respect of the invention of "Improvements in the manufacture of fuel from peat, and in apparatus employed therein, part of which is also applicable to the moulding of bricks, tiles, and other plastic materials."

2838. And WILLIAM BEARDMORE, of Deptford, in the county of Kent, Engineer, has given the like notice in respect of the invention of "Improvements in steam boilers."

2840. And GEORGE WILLIAM BRYANT KIALLMARK, of Bridgewater, in the county of Somerset, and WILLIAM THOMAS TIMEWELL, of North Wharf Road, Paddington, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in the manufacture of cements."

As set forth in their respective petitions, all recorded in the said office on the 10th day of December, 1858.

2842. And JOHN BONAR GUTHRIE, of Manchester, in the county of Lancaster, Warehouseman, has given the like notice in respect of the invention of "Improvements in the manufacture of india-rubber overshoes."

2843. And STEPHEN DUDGEON, of Sheffield, in the county of York, has given the like notice in respect of the invention of "An improved gas regulator."

As set forth in their respective petitions, both recorded in the said office on the 11th day of December, 1858.

2850. And JOHN ANDERTON CARRUTHERS, Reed Maker, and THOMAS BLACKBURN, Mechanic, both of Blackburn, in the county of Lancaster, have given the like notice in respect of the invention of "Improvements in apparatus for guiding and regulating the warp threads in the operations of warping, tape-sizing, looming, and weaving."

2852. And LOUIS CHARLES VICTOR YON, of the town of Lisieux, department of the Calvados, in the empire of France, Upholsterer, has given the like notice in respect of the invention of "Improved elastic beds."

2854. And JAMES EDWARD BOYD, of Hither Green, Lewisham, in the county of Kent, Gentleman, has given the like notice in respect of the invention of "Improvements in candlesticks, lamps, and lanthorns."

2858. And JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of steam engines, and in the mode of working the same."

As set forth in their respective petitions, all recorded in the said office on the 13th day of December, 1858.

2860. And EBENEZER BOW, of Port Dundas, in the county of Lanark, North Britain, Coalmaster, has given the like notice in respect of the invention of "Improvements in pumps."

As set forth in his petition, recorded in the said office on the 14th day of December, 1858.

2870. And FRANÇOIS CHRISTOPHE NICOLAS JUVENAL VIELLARD-MIGEON, of Morvillars, departement du Haut Rhin, France, Manufacturer of Wood Screws, has given the like notice in respect of the invention of "Improvements in manufacturing screws, rivets, nails, spikes, and all similar articles made of metallic wire, and in the machines connected therewith."

As set forth in his petition, recorded in the said office on the 15th day of December, 1858.

2882. And ABEL STOKES, of Birmingham, in the county of Warwick, Manufacturer, and FREDERICK JOSEPH STOKES, of Birmingham aforesaid, Manufacturer, have given the like notice in respect of the invention of "New or improved machinery for the manufacture of screws."

2884. And JASPER HENRY SELWYN, of Woodland Crag, Grasmere, in the county of Westmoreland, Captain in the Royal Navy, has given the like notice in respect of the invention of "A novel apparatus for paying out or laying down submarine telegraph cables or wires, and for raising the same after they have been laid down."

As set forth in their respective petitions, both recorded in the said office on the 16th day of December, 1858.

2899. And JOHN AITKEN, of Irwell Vale Mill, Edenfield, near Bury, in the county of Lancaster, Manufacturer, and JOHN BROOKS, of the same place, Overlooker, have given the like notice in respect of the invention of "Improvements in looms."

2901. And ALEXANDER MITCHELL, of Glasgow, Machinist, has given the like notice in respect of the invention of "Improved apparatus for registering the speed of engines and other machinery."

2904. And EMILE WEBER, of Mulhouse, in the empire of France, Chemist, has given the like notice in respect of the invention of "Improvements in dyeing or colouring textile fabrics and materials, and in the machinery or apparatus connected therewith."

As set forth in their respective petitions, all recorded in the said office on the 18th day of December, 1858.

2916. And AUGUSTE STANISLAS BELIARD, of Bordeaux, in the empire of France, Hatter, has given the like notice in respect of the invention of "An improved machine for pumicing felts, tissues, and skins."

As set forth in his petition, recorded in the said office on the 21st day of December, 1858.

2925. And WILLIAM SPENCE, of No. 50, Chancery Lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in granaries, or apparatus

for preserving grain."—A communication from Charles Joseph Emile Pavy, of Girardet, Indre et Loire, in the empire of France, Farmer and Land Owner."

2927. And Edward Green, of Wakefield, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in tables."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of December, 1858.

2939. And James Thomas Peter Newbon and Thomas Smith, of Fenchurch Street, Naval Architects, and James Brown, of Follit Street, Engineer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for raising and lowering, or otherwise moving heavy weights."

As set forth in their petition, recorded in the said office on the 24th day of December, 1858.

3007. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture or production and casting of steel, and in the apparatus employed therein."—A communication from Monsieur Sudre."

As set forth in his petition, recorded in the said office on the 31st day of December, 1858.

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114. And François Jules Manceaux, of Paris, in the empire of France, Manufacturer, and Eugene Napoléon Vieillard, of the same place, Gunsmith, have given the like notice in respect of the invention of "Improvements in breech-loading fire-arms, and in cartridges."

As set forth in their petition, recorded in the said office on the 13th day of January, 1859.

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317. And Alexander Allan, of Perth, in the county of Perth, Engineer, has given the like notice in respect of the invention of "Improvements in locomotive steam engines, in part applicable for retarding and stopping railway trains."

As set forth in his petition, recorded in the said office on the 4th day of February, 1859.

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434. And William Horstmann, of the city of New York, in the county of New York, and the state of New York, U.S.A., has given the like notice in respect of the invention of "Telegraphic cables, and the mode of constructing the same and laying them down."

As set forth in his petition, recorded in the said office on the 16th day of February, 1859.

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495. And Samuel Rodgers Samuels, of Nottingham, has given the like notice in respect of the invention of "Improvements in twist lace machines."

496. And Samuel Russell, of No. 12, Sheaf Gardens, Sheffield, in the county of York, Britannia Metal Manufacturer, has given the like notice in respect of the invention of "An improvement in the manufacture of handles for tea and coffee pots, jugs, kettles, knives, daggers, and forks, or any other description of article to which handles are applied."

As set forth in his petition, recorded in the said office on the 23rd day of February, 1859.

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558. And Joseph Kershaw, of Allerton, near Bradford, in the county of York, Overlooker, has given the like notice in respect of the invention of "Improvements in means or apparatus employed in weaving."

As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

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582. And Frederick William Parker, of Sheffield, in the county of York, Saw Maker, has given the like notice in respect of the invention of "Improvements in sewing machines."

As set forth in his petition, recorded in the said office on the 5th day of March, 1859.

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654. And Benjamin Rider, of 61, Red Cross Street, Boro', in the county of Surrey, Leather Dresser and Hat Leather Manufacturer, has given the like notice in respect of the invention of "Improvements in hats, caps, and other coverings for the head, and in apparatus used in the manufacture of such articles."

As set forth in his petition, recorded in the said office on the 15th day of March, 1859.

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670. And Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of crank axles."

As set forth in his petition, recorded in the said office on the 16th day of March, 1859.

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775. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved construction of furnace for reheating steel preparatory to the hardening, tempering, or annealing process."—A communication from abroad, by Perry Green Gardiner, of New York.

777. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved apparatus for retaining the oil or other fluid used for annealing, tempering, and hardening steel at an equable low temperature."—A communication from abroad, by Perry Green Gardiner, of New York.

As set forth in his respective petitions, both recorded in the said office on the 28th day of March, 1859.

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809. And Samuel Stephen Bateson, of No. 17, Bolton Street, May Fair, in the county of Middlesex, Barrister-at-Law, has given the like notice in respect of the invention of "Improvements in generating steam and in the apparatus employed therein."

As set forth in his petition, recorded in the said office on the 31st day of March, 1859.

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819. And William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like

notice in respect of the invention of "An improved process of manufacturing sulphate of lead, carbonate of lead, nitrate of potash, and sulphate of soda." — A communication from Samuel Cooper, of Boston, in the United States of America.

821. And WILLIAM TOD, of Glasgow, in the county of Lanark, North Britain, Marine Engineer, has given the like notice in respect of the invention of "Improvements in marine steam engines."

As set forth in their respective petitions, both recorded in the said office on the 1st day of April, 1859.

839. And WILLIAM BROWN and CHARLES NEALE MAY, both of Devizes, in the county of Wilts, Engineers, have given the like notice in respect of the invention of "Improvements in hay-making machines."

As set forth in their petition, recorded in the said office on the 4th day of April, 1859.

849. And GEORGE HASELTINE, of the United States of America, now of No. 4, Southampton Buildings, Holborn, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in sewing machines."

As set forth in his petition, recorded in the said office on the 5th day of April, 1859.

860. And ISAAC ADAMS, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "An improved tubular chain cable guide for vessels' bulwarks." — A communication from Alfred S. Phillips, a resident of Boston, of the said state of Massachusetts.

As set forth in his petition, recorded in the said office on the 6th day of April, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of LETTERS PATENT which passed the Great Seal on the

16th April, 1859.

2327. JOHN SMITH, of Newport, in the county of Salop, Engineer, for an invention of "Improvements in rough-shoeing beasts of draught and burden."—Dated 18th October, 1858.

2328. EDMUND WALKER, of London Street, in the city of London, for an invention of "An improved filter." — A communication from a Foreigner residing abroad.—Dated 19th October, 1858.

2329. JOSEPH WHITWORTH, of the city of Manchester, in the county of Lancaster, Engineer, for an invention of "Improvements in guns, gun carriages, and ammunition."—Dated 19th October, 1858.

2331. JOHN OWEN and HINDLE DUCKWORTH, both of Blackburn, in the county of Lancaster, Machinists, for an invention of "Improvements in looms."—Dated 19th October, 1858.

2332. ALEXANDER ALLAN, Engineer, THOMAS WHIMSTER, Gas Engineer, and ROBERT GRAY, Gas Inspector, all of Perth, in the county of Perth, North Britain, for an invention of "Improvements in steam boilers, also applicable in part to gas-meters, lamps, and lubricating and other apparatus requiring a constant liquid level, and in part to pressure-indicating apparatus." — Dated 19th October, 1858.

2405. TIMOTHY RAILTON, of the city of Manchester, Manufacturer, for an invention of "Improvements in the apparatus employed in the manufacture of cap or bonnet fronts."—Dated 28th October, 1858.

2435. CHARLES PERLEY, of the city and state of New York, United States of America, for an invention of "Certain improved means for disconnecting boats from the davit blocks, and effecting other like objects."—Dated 1st November, 1858.

2465. COLIN MATHER, of Salford, in the county of Lancaster, Machinist, for an invention of "Improvements in drying yarns while in the hank."—Dated 4th November, 1858.

2513. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved apparatus for obtaining extracts or decoctions."—Dated 9th November, 1858.

2629. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved apparatus for transmitting motive power."—Dated 19th November, 1858.

2685. EDWIN DIXON, of Wolverhampton, in the county of Stafford, Manufacturer, and JOHN FISHER, of Wolverhampton aforesaid, Tube Drawer, for an invention of "An improvement in the manufacture of welded iron tubes."—Dated 26th November, 1858.

2695. JAMES TANGYE, of Birmingham, in the county of Warwick, Machinist, for an invention of "An improvement in hydraulic presses."—Dated 27th November, 1858.

2907. THOMAS SWANN WOODCOCK, of Salford, in the county of Lancaster, for an invention of "An improved index or book and paper marker."—A communication from Josee Johnson, a foreigner residing abroad."—Dated 20th December, 1858.

267. JOSEPH MARINO, of the city of Stockholm, in the kingdom of Sweden, Mechanician, for an invention of "An inodorous closet or commode."—Dated 29th January, 1859.

459. ALPHONSE RENÉ LE MIRE DE NORMANDY, of 67, Judd Street, Brunswick Square, in the county of Middlesex, Analytical Chemist, for an invention of "Improvements in an apparatus for obtaining fresh water from salt water."—Dated 19th February, 1859.

18th April, 1859.

2339. WILLIAM RIDDLE, of 1, Westbourne Terrace, Barnsbury Park, in the county of Middlesex, for

an invention of "Improvements in packing or forming merchandize or goods into bales." —Dated 19th October, 1858.

2341. Robert Dawson Clegg, of Manchester, in the county of Lancaster, Gentleman, for an invention of "Improvements in screws."—Dated 20th October, 1858.

2344. Thomas Twells, of the town and county of the town of Nottingham, Mechanist, for an invention of "Improvements in machinery for embroidering or ornamenting woven looped or lace fabrics." —Dated 20th October, 1858.

2345. John Wainwright, of Birkenhead, in the county of Chester, Dental Surgeon, for an invention of "Improvements in ventilating houses and other places."—Dated 20th October, 1858.

2346. Samuel Thomas Clarke, of 30, Kildare Terrace, Westbourne Park, in the county of Middlesex, Gentleman, for an invention of "Improvements in apparatus for crossing bankers' cheques and drafts."—Dated 20th October, 1858.

2348. Jonas Marland, of Sun Vale Iron Works, Walsden, in the county of Lancaster, and Samuel Marland, also of Sun Vale Iron Works, Walsden, in the county of Lancaster, Machinists, for an invention of "Certain improvements in power looms."—Dated 21st October, 1858.

2351. James Murdoch Napier, of York Road, Lambeth, Engineer, for an invention of "Improvements in printing presses and printing machines." —Dated 21st October, 1858.

2361. James Bagnall and William Bagnall, of Westbromwich, in the county of Stafford, Ironmasters, for an invention of "An improvement in the manufacture of iron."—Dated 22nd October, 1858.

2362. Alexander Shaw, of The Earle's Field Works, Grantham, in the county of Lincoln, Leather Dresser and Fellmonger, and Glue and Parchment Manufacturer, for an invention of "A new method or mode of raising nap on the linings of sheep skins."—Dated 22nd October, 1858.

2363. Richard Waller, of No. 50, Baker Street, Portman Square, in the county of Middlesex, for an invention of "Improvements in obtaining motive power, and in apparatus connected therewith."—Dated 22nd October, 1858.

2366. Edwin Palmer, of Thetford, in the county of Suffolk, Engineer, and Edward Palmer, of Thetford aforesaid, Ironfounder, for an invention of "Improvements in machinery or apparatus for cutting hay, straw, or other similar substances."—Dated 23rd October, 1858.

2379. Thomas Ashworth and Joseph Ashworth, of Pendleton, in the county of Lancaster, Manufacturers, for an invention of "Certain improvements in power looms for weaving."—Dated 25th October, 1858.

2380. William Craddock and John White, both of Archer Street, St. James's, in the county of Middlesex, Harness Platers, for an invention of "Improvements in the connecting links of harness hames."—Dated 25th October, 1858.

2403. John Westerby, of Upper Aspley, Huddersfield, in the county of York, Engineer, for an invention of "An improved application of steam to vessels filled with oil, tallow, or other materials for lubricating the cylinders of steam engines of high or low pressure."—Dated 28th October, 1858.

2429. George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "Improvements in machinery for weaving velvets and other piled fabrics."—A communication from a Foreigner residing abroad. —Dated 1st November, 1858.

2434. Edward Maynard, of Brooklyn, in the county of Kings and state of New York, United States of America, for an invention of "Improvements in submarine telegraph cables."— Dated 1st November, 1858.

2442. Robert Creed Smith, of Birmingham, in the county of Warwick, Glass Mould Maker, for an invention of "A new or improved buoy or wreck intelligencer."—Dated 2nd November, 1858.

2461. John Oxley, of Camden Town, for an invention of "Improvements in carriages and wheel vehicles."—Dated 4th November, 1858.

2481. Herbert Newton Penrice, of Wilton House, near Norwich, for an invention of "Improvements in machinery for tunnelling and driving galleries through rock and other strata."— Dated 6th November, 1858.

2503. John Samuel Dawes, of Smethwick House, near Birmingham, Gentleman, for an invention of "A new or improved machine to be used for cultivating land, and which may be made applicable as a hoe, a skim, a turf or peat cutter; and a new or improved method of actuating the said machine, and other machines used for like operations."— Dated 9th November, 1858.

2529. James Lees, of Oldham, in the county of Lancaster, Tin Plate Worker, and William Lees, of the same place, Engineer, for an invention of "An improvement in the construction of oil cans." —Dated 11th November, 1858.

2532. Martin Benson, late of Cincinnati, in the United States of America, but now residing at Newcastle, Mechanical Engineer, for an invention of "An improved manufacture of rails for railways."—Dated 11th November, 1858.

2538. Thomas Fildes Cocker, of Sheffield, in the county of York, Steel File and Wire Manufacturer, for an invention of "Improvements in the manufacture of steel and iron wire, also of sheets and strips of steel." — Dated 12th November, 1858.

2540. Joseph Gilbert Martien, of Ampthill Square, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of iron, and in the apparatus employed in such manufacture." — Dated 12th November, 1858.

2543. Mark Nield Mills and Nathan Sidebotham, both of Ashton-under-Lyne, in the county of Lancaster, Machinists, for an invention of "Certain improvements in looms for weaving." —Dated 13th November, 1858.

2561. Allan Dick, of Holywell, in the county of Flint, Metallurgist, for an invention of "A new or improved manufacture of a yellow pigment."—Dated 15th November, 1858.

27. Charles Bell Blyth, of Dundee, Mill Manager, for an invention of "Improvements in machinery for preparing and treating jute, hemp, flax, and other fibrous materials."—Dated 3rd January, 1859.

365. Joseph Crossley, of Halifax, for an invention of "Improvements in the means employed when steaming printed yarns."—Dated 9th February, 1859.

374. John Young, of Wolverhampton, in the county of Stafford, Manufacturer, for an invention of "An improvement or improvements in the construction of knobs, and the roses used for connecting knobs with doors, and with the cases of locks and latches, and other like fastenings."—Dated 10th February, 1859.

409. Thomas Hunt, of Crewe, in the county of Chester, Engineer, for an invention of "Improvements in steam boilers or generators, and in the prevention or combustion of smoke."—Dated 14th February, 1859.

413. James Copcutt, of 26, Kirby Street, Hatton Garden, in the county of Middlesex, for an invention of "Improvements in obtaining light from gases."—Dated 14th February, 1859.

439. Joseph Breeden, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "New or improved machinery for the manufacture of taps or stopcocks and fittings for gas, steam, and water pipes."—Dated 16th February, 1859.

440. John Eason, of Oxford Street, in the county of Middlesex, for an invention of "Improvements in apparatus applicable to tanning, dyeing, and obtaining extracts from vegetable, animal, and mineral substances."—Dated 16th February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 16th April, 1859, inclusive.*)

14th April.

895. Hugo Frederick Forbes, of Park Place, Regent's Park, London, in the county of Middlesex, for an invention of "Improvements in breech-loading fire-arms and ordnance, and in projectiles used therewith."—Dated 15th April, 1856.

916. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the manufacture of tyres."—A communication from Messrs. Jackson Brothers, Petin, Gaudet and Company, of Rive de Gier.—Dated 17th April, 1856.

16th April.

959. Augustin Simeon Vimont, Practical Engineer, of Vire (Calvados), in the empire of France, for an invention of "A new system of machine for spinning wool and any other fibrous material."—Dated 22nd April, 1856.

FOREIGN PATENTS.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1859.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

567. Andréas, Burdel, and Chicard, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 29th January, 1859, for "A composition for reviving cloth, &c."—Dated 3rd February, 1859.

568. Mrs. Cecile Dantan Sommelet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in scissors of all sizes."—Dated 3rd February, 1859.

569. Claude Ferdinand Dieudonne Ribière, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A moveable sweeping machine."—Dated 3rd February, 1859.

570. Alphonse Alexandre George, of 59, Rue de Saintonge, Paris, a Certificate of Addition to his Patent of 14th February, 1856, for "A mechanical loom for the manufacture of bordered and proportional tricots."—Dated 4th February, 1859.

571. Jean Pierre Duvelleroy, of 17, Grande Gaterix, Passage des Panoramas, Paris, for "A bracelet carrying a fan."—Dated 4th February, 1859.

572. Hippolyte Hubert, of 69, Rue Blanchel, Paris, for "A moveable steam pump."—Dated 4th February, 1859.

573. Gustave Hippolyte Gapiaud, of 41, Rue Quincampoix, Paris, for "A machine for making cracknels and maccaroons."—Dated 4th February, 1859.

574. Gustave Hippolyte Gapiaud, of 40, Rue Quincampoix, Paris, for "Glazing biscuit, pastry, and sweetmeat, &c."—Dated 4th February, 1859.

* For the French Patent Law see No. 228 of this Journal.

575. Alfred René Dalifol, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 7th January, 1859, for "An annealing furnace with fixed crucibles."—Dated 4th February, 1859.

576. Anne Philibert Alexandre Coursot, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in rolling wooden horses used as toys."—Dated 4th February, 1859.

577. Barsanti and Mateucci, represented by Barreau, of 33, Boulevart St. Martin, Paris, for "Using the explosion of a mixture of air and accendible gas as motive power."—Dated 4th February, 1859.

578. Jean Alphonse Pichot, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 16th December, 1857, for "Safety bags."—Dated 4th February, 1859.

579. Antoine Edouard Brisbart-Gobert, of 56, Faubourg Poissonnière, Paris, for "A system of games."—Dated 4th February, 1859.

580. Jean Jacques Danduran, of 8, Rue Lamartine, Paris, for "A so-called 'hydro-calogenous system.'"—Dated 5th February, 1859.

581. Dugenne, and Co., of 81, Rue Rambuteau, Paris, for "A tissue for petticoats of one single breadth."—Dated 5th February, 1859.

582. Jean Baptiste Jourdan-Gozzarino, of 18, Impasse St. Pierre, Batignolles, for "A kind of regulator for steam engines."—Dated 5th February, 1859.

583. Marie Joseph Denis Farcot, of St. Ouen, a Certificate of Addition to his Patent of 26th March, 1853, for "A steam hammer."—Dated 5th February, 1859.

584. Jean Charles Antoine Lecour, of 29, Rue de l'Est, Paris, a Certificate of Addition to his Patent of 8th February, 1859, for "A scraping broom."—Dated 5th February, 1859.

585. Marie Barthélemy Julien Rabiot, of 55, Rue de la Harpe, Paris, a Certificate of Addition to his Patent of 3rd December, 1846, for "An elastic hoop called 'nosophore,' for suspending baths, &c."—Dated 5th February, 1852.

586. Pierre Noël Laudray, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, a Certificate of Addition to his Patent of 15th November, 1856, for "A steam engine with a direct rotation."—Dated 5th February, 1859.

587. François Durand, represented by Barrault, of 33, Boulevart Montmartre, Paris, a Certificate of Addition to his Patent of 20th March, 1858, for "Improvements in looms for weaving plain and figured fabrics."—Dated 5th February, 1859.

588. Antoine Pagès, of 18, Rue St. Croix de la Bretonnerie, Paris, a Certificate of Addition to his Patent of 31st August, 1857, for "Silk hat bodies."—Dated 5th February, 1859.

589. Jean Alphonse Pichot, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 5th June, 1858, for "Improvements in fastening boxes, bags, trunks, &c."—Dated 5th February, 1859.

590. Henry Frédéric Sauvage, of 122, Faubourg St. Martin, Paris, for "A stick combined with a smoking pipe."—Dated 5th February, 1859.

591. Charles François Mongin, of 11, Rue des Juifs, Paris, a Certificate of Addition to his Patent of 8th January, 1859, for "Manufacture of saws."—Dated 5th February, 1859.

592. Constant François Chantier, of 24, Rue Basse du Rempart, Paris, for "Inlaid floors with metallic tongues, applicable to all shapes and arrangements."—Dated 5th February, 1859.

593. Charles Aimé de Saillet, of 22, Rue des Marais, Paris, for "A steam engine for using ether, chloroform, &c."—Dated 5th February, 1859.

594. Andrew Barclay, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Obtaining and distributing or applying electricity."—Dated 5th February, 1859.

595. Jean Baptiste Thomas, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of brushes."—Dated 5th February, 1859.

596. Couillard and Mazeline, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 29th April, 1858, for "Processes and apparatus for manufacturing coal cakes and conglomerated fuel."—Dated 5th February, 1859.

597. Gotsfried Pentzolds, represented by Bresson, of 57, Rue de Bretagne, Paris, a Certificate of Addition to his Patent of 20th June, 1857, for "A machine for pumping and raising water."—Dated 5th February, 1859.

598. Bernard Nébon, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Counters and covers for card tables."—Dated 5th February, 1859

599. Auguste Léon Peltier, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Improvements in looms for crotchet embroideries."—Dated 5th February, 1859.

600. Noël Pierre Hélène Fayet, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A system of match boxes."—Dated 5th February, 1859.

601. Jules Séguin, of 4, Route de Grenelle, commune de St. Maurice, for "Converting the motion of tidal waters into currents and waterfalls, applicable to industrial and agricultural purposes, and for means and apparatus used therefor."—Dated 5th February, 1859.

602. Charles François Cattaert, represented by Ricordeau, of 33, Boulevart de Strasbourg, Paris, for "Metallic mountings on crystal buttons."—Dated 5th February, 1859.

603. Philippe Athanase Segrétin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for moulding candles."—Dated 5th February, 1859.

604. Chantepie Brothers, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in elastic seamless tissues for foot coverings."—Dated 5th February, 1859.

605. Jean Louis Louis, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in trays for small glasses."—Dated 5th February, 1859.

606. Charles Maurice Paul Canouil, of 84, Faubourg St. Dénis, Paris, for "Manufacture of matches of amorphous phosphorus which cannot be extinguished."—Dated 7th February, 1859.

607. Alexandre Heroz, of 13, Rue St. Dominique, St. Germain, Paris, for "Jointed fastenings applicable to lasts of shoemakers."—Dated 7th February, 1859.

608. Louis Théodore Donnadieu Théodore, represented by Bresson, of 57, Rue de Bretagne, Paris, a Certificate of Addition to his Patent of 28th February, 1855, for "Buttons with safety bolts or levers."—Dated 7th February, 1859.

609. Charles Pierre Aubert, represented by Bresson, of 57, Rue de Bretagne, Paris, for "So-called 'Oriental paint.'"—Dated 7th February, 1859.

610. Miss Félicité Prophête, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A liqueur case with a motor mechanism."—Dated 7th February, 1859.

611. Cyriaque Pierre-es-Liens Dubus, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Driving in piles by means of rammers."—Dated 7th February, 1859.

612. Hercule Louis Alexandre Domingo, of 51, Chaussée Ménilmontant, Paris, for "Manufacture of forks and spoons and dinner service."—Dated 7th February, 1859.

613. Zépherin Louis Ernest Lachevre, domiciled with Chauvin, of 14, Rue de Buci, Paris, for "An insubmersive life-boat."—Dated 7th February, 1859.

614. Dreyfous and Richer, of 54, Rue de Bondy, Paris, for "Preserving eggs."—Dated 7th February, 1859.

615. Bernard Subra, of 60, Rue St. André des Arts, Paris, for "A direct gas carburator."—Dated 7th February, 1859.

616. Antoine Gabriel Nicolas Lingée, of 2, Avenue Victorie, Paris, for "Manufacture of hydraulic cement."—Dated 7th February, 1859.

617. François Louis Messener, of 10, Rue Lenoir, Paris, for "Printing stained paper."—Dated 7th February, 1859.

618. Reynaud and Peuchant, the former of 19, Rue du Bouloi, the latter of 107, Rue de Montreuil, Paris, for "Pressure buckles with a ratch."—Dated 7th February, 1859.

619. Charles Zentner, of 8, Rue Dumaire, Paris, for "A mechanical apparatus for mixing absinthe."—Dated 7th February, 1859.

620. Henri Sauvage North, represented by Desnos, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 3rd August, 1857, for "Improvements in fire arms."—Dated 7th February, 1859.

621. Léon Garcin, of 59, Rue des Petites-Ecuries, Paris, a Certificate of Addition to his Patent of 17th June, 1858, for "A system of railway switches."—Dated 8th February, 1859.

622. Alphonse Eloi Victorin Boucher, of 83, Boulevart Mazas, Paris, for "A revolving indicator."—Dated 8th February, 1859.

623. Léopold Edouard Royon, domiciled 2, Rue des Filles du Calvaire, Paris, for "Improvements in fire-arms."—Dated 8th February, 1859.

624. Alexandre François Royan, domiciled with Hurez, of 57, Rue Rochechouart, Paris, for "Improvements in the manufacture of tiles."—Dated 8th February, 1859.

625. Messrs. Darte, of 51, Rue des Vinaigriers, Paris, for "Inlaid pavements of baked clay."—Dated 8th February, 1859.

626. Pierre Hippolyte Gustave Bérard, 323, Rue St. Denis, Paris, a Certificate of Addition to his Patent of 11th February, 1858, for "Waterproofing tissues by means of concentrated collodium."—Dated 8th February, 1859.

627. François Victor Fournier, of 45, Rue Sedaine, Paris, for "A system of sockets."—Dated 8th February, 1859.

628. Edouard Schneckenburger, of 62, Rue St. Etienne, Batignolles, for "A composition of bones for reproducing objects of sculpture."—Dated 8th February, 1859.

629. Beltzung and Boin, of 24, Rue des Cendrievre, Belleville, for "A machine for grinding, bruising, and crushing."—Dated 8th February, 1859.

630. Pierre François Lesage, domiciled 11, Boulevart de Strasbourg, Hôtel du Chemin de Fer de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th December, 1855, for "A system for emptying cesspools and conveying fecal matter."—Dated 8th February, 1859.

631. Auguste Théophile Rousseau, represented by Ricordeau, of 33, Boulevart de Strasbourg, Paris, for "Self-acting bellows for organs, harmoniums, and other similar instruments."—Dated 8th February, 1859.

632. Claude Joseph Thirault, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Colouring, preserving, and ornamenting iron and steel, and likewise gold, silver, steel, and other metals for industrial purposes."—Dated 8th February, 1859.

633. Clément Léon d'Assonvillez, of 11, Rue de l'Arcade, Paris, for "Tickets for carriages and omnibuses."—Dated 8th February, 1859.

634. Rose Anaïs Deleuil, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in applying wood to inlaid floors, &c."—Dated 8th February, 1859.

635. Everhard Angenscheidt, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the mechanism of pianos."—Dated 8th February, 1859.

636. Antoine Michel, of 164, Rue de Faubourg Poissonnière, Paris, a Certificate of Addition to his Patent of 13th May, 1856, for "An apparatus for scalding linen, &c."—Dated 9th February, 1859.

637. Gaudin Ambroise Borderie, of 19, Rue Vanneau, Paris, for "A mechanism for driving carriages without horses."—Dated 9th February, 1859.

638. Jean Baptiste Théodore Philibert Oget, of 44, Rue des Vieux Augustins, Paris, a Certificate of Addition to his Patent of 15th September, 1858, for "A lathe for making wooden

heels for half boots and shoes."—Dated 9th February, 1859.

639. Léon Malzard, domiciled with Boucherot, of 309, Rue St. Denis, Paris, a Certificate of Addition to his Patent of 4th February, 1858, for "A printing machine."—Dated 9th February, 1859.

640. Jean Baptiste Brunet, of 10, Rue Castiglione, Paris, for "A system of planes representing rotary surfaces."—Dated 9th February, 1859.

641. Louis Perrin, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in revolvers."—Dated 9th February, 1859.

642. Alfred Nobel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A portable barometer with direct pressure and indicators."—Dated 9th February, 1859.

643. John Petrie, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for drying warps, yarns, and textile tissues."—Dated 9th February, 1859.

644. George Adshead, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in steam boilers."—Dated 9th February, 1859.—(English Patent, expiring 30th June, 1872.)

645. Dameron and Noiretat, of 25, Rue du Dragon, Paris, for "A composition, being a substitute for ivory."—Dated 9th February, 1859.

646. Traxler and Steverlynck, of 49, Rue d'Amsterdam, Paris, for "A registering and controlling apparatus."—Dated 8th February, 1859.

647. Emile Revest, of 45, Rue des Petites-Ecuries, Paris, for "A machine for coating paper and pasteboard."—Dated 8th February, 1859.

648. Adolphe Félix Gentil-Descarrierève, of 27, Rue du Faubourg St. Martin, Paris, a Certificate of Addition to his Patent of 3rd January, 1857, for "Applying photographic roofs to stereoscopes and dioramas, in order to obtain dioramic effects."—Dated 8th February, 1859.

649. Hippolyte Henri Flamant, of 13, Rue Michael-le-Comte, Paris, for "A system of keys with catches."—Dated 9th February, 1859.

650. Henri Léon Cazal, of 25, Rue Bonaparté, Paris, for "Scales with hydraulic springs."—Dated 9th February, 1859.

651. Charles François Mongin, of 11, Rue des Juifs, Paris, a Certificate of Addition to his Patent of 8th January, 1859, for "Manufacture of saws."—Dated 10th February, 1859.

652. Charles Sardou, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 6th February, 1858, for "Felt hats with adhesive rims."—Dated 10th February, 1859.

653. Jacques Etienne Daud, of 62, Rue Ménilmontant, Paris, a Certificate of Addition to his Patent of 24th September, 1858, for "Elastic footcoverings."—Dated 10th February, 1859.

654. Jean Baptiste Victor Grumel, of 20, Rue de la Ciseraie, Paris, for "Dyeing textile substances."—Dated 10th February, 1859.

655. Louis Dominique Girard, of 44, Rue d'Enghien, Paris, for "A crane worked by a turbine."—Dated 10th February, 1859.

656. Beers, of Sydney, represented by Tolhausen, of 35, Boulevart Bonne-Nouvelle, Paris, for "Improvements in the construction of American and other railways."—Dated 10th February, 1859.

657. Maximilien Cornely, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Means of protecting resin."—Dated 10th February, 1859.

658. Thomas Guinier, of 23, Rue de Grenelle St. Honoré, Paris, a Certificate of Addition to his Patent of 17th May, 1858, for "Improvements in taps, &c."—Dated 10th February, 1859.

659. Mathieu Moryollin, of 76, Route de Chatillon, commune de Vanves, for "A brick machine."—Dated 10th February, 1859.

660. Hedfonse Pierre Hénon, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "A machine for breaking sugar."—Dated 11th February, 1859.

661. Jules Vuignier, of 11, Passage d'Angoulême, Paris, for "Improvements in air-holes."—Dated 11th February, 1859.

662. Dauzon and Rolland, the former of Layrac, the latter of Agen, département de Lot-et-Garrone, for "Manufacture of tobacco paper for cigarets."—Dated 12th February, 1859.

663. Désiré Nicolas Mauclère, of Osne le Val, département de la Haute Marne, for "Heating stoves and other drying rooms, by means of the gas of blast furnaces, radiated in metal pipes."—Dated 14th February, 1859.

664. Marie Charlemagne Dégon, of St. Quentin, département de l'Aisne, for "Reels for obtaining skeins of sized thread, applicable to all kinds of sizing machines."—Dated 14th February, 1859.

665. Balthazar Saurin, of Draguignan, département du Var, for "Improvements in mills with an alternate motion for sawing timber."—Dated 14th February, 1859.

666. Jean Adolphe Aubert, of 33, Chemin de Coudray, Nantes, département de la Loire Inférieure, a Certificate of Addition to his Patent of 17th August, 1858, for "A harvesting instrument."—Dated 14th February, 1859.

667. René Hervouet, of 16, Rue Crébillon, Nantes, département de la Loire Inférieure, for "A metronome for taking the measures of shirts."—Dated 14th February, 1859.

668. Oscar Lacroix, Laroche, and Lacroix, of La Couronne, département de la Charente, for "A metallic gauze-wire for making design paper."——Dated 9th February, 1859.

669. Alexandre Plaff, domiciled at the Hôtel de l'Ours Noir, Strasbourg, département du Bas Rhin, a Certificate of Addition to his Patent of 30th November, 1858, for "A so-called 'barometric motor.'"—Dated 11th February, 1859.

670. Louis and Anasthasie Engrand, of Jouy, at Josan, département de Seine et Oise, for "Impervious trousers."—Dated 14th February, 1859.

671. Prosper Guy, of Saint Maurice, near Larochelle, département de la Charente Inférieure, for "An alimentary preparation."—Dated 12th February, 1859.

672. Paris and Poidevin, of Amiens, département de la Somme, for "An hydraulic gauge or self-acting apparatus for registering the flow of liquids."—Dated 14th February, 1859.

673. Pierre Charles Patrouilleau, of 47, Rue Ste. Croix, Bordeaux, département de la Gironde, for "Manufacture of sea biscuit."—Dated 14th February, 1859.

674. Ferdinand Rouillon, of Grenoble, département de l'Isère, for "A peculiar mode of cutting gloves."—Dated 15th February, 1859.

675. L'Hermite, of Faubourg St. Maurice, Lille, département du Nord, for "A machine for crushing dry or carbonized substances, such as chicory, animal charcoal, &c."—Dated 15th January, 1859.

676. Gustave Marqfoy, of 110, Cours du Jardin Public, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 20th July, 1854, for "Improvements in telegraphic apparatus."—Dated 15th February, 1859.

677. Courdouzy and Tanerer, of 11, Rue Pomme d'Or, Bordeaux, département de la Gironde, for "A steamer with a continuous screw."—Dated 16th February, 1859.

678. Jean François Lemercier, of La Ferté Macé, département de l'Orne, for "A process for rendering church windows solid."—Dated 16th February, 1859.

679. Louis Parisot, of Plancher les Mines, département de la Haute-Saône, for "A mode of fastening the square bits to watch keys."—Dated 16th February, 1859.

680. Joseph Wanson, of 41, Rue du Roi de Sicile, Paris, a Certificate of Addition to his Patent of 17th June, 1858, for "Fixing glass cocks.—Dated 11th February, 1859.

681. D'Anglars and Besand, the former of Batignolles, the latter of 38, Rue Bonaparte, Paris, for "Plastic mastic."—Dated 11th February, 1859.

682. Joseph Masbon, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in applying electricity to bells, indicators, and locks."—Dated 11th February, 1859.

683. Henri Picq, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 28th July, 1857, for "A registering weighing machine."—Dated 11th February, 1859.

684. Basile Deloni Demacon, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A kind of scraper."—Dated 11th February, 1859.

685. Pierre Ernest Aimont, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of carriage with independent wheels and rails affixed thereto.—Dated 11th February, 1859.

686. Louis Monin, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A belt for the private use of ladies."—Dated 12th February, 1859.

687. Jean Baptiste Perreur, represented by Bresson, of 57, Rue du Bretagne, Paris, a Certificate of Addition to his Patent of 15th January, 1856, for "Improvements in nail machines."—Dated 12th February, 1859.

688. Douvry and Ad. Breteau, represented by Bresson, of 57, Rue de Bretagne, Paris, a Certificate of Addition to their Patent of 24th June, 1858, for "Fastening purses, portemannaies, bags, &c."—Dated 12th February, 1859.

689. Alexandre Mina, represented by Bresson, of 57, Rue de Bretagne, Paris, a Certificate of Addition to his Patent of 9th June, 1858, for "Mechanism of large bells."—Dated 12th February, 1859.

690. De Clippèle d'Hem, represented by Fringart, of 10, Rue de Provence, Paris, for "Cutting leather for making straps and pipes."—Dated 12th February, 1859.

691. Pierre Godfroy, of 12, Rue Truffaut, Batignolles, a Certificate of Addition to his Patent of 4th January, 1859, for "Improvements in the manufacture of funeral garlands."—Dated 12th February, 1859.

692. Jean Jouffray, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Hydraulic springs for railway carriages."—Dated 12th Feruary, 1859.

693. Charles Auguste Legros, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of heating and drying applicable to industrial purposes."—Dated 12th February, 1859.

694. Cavé and Chaparède, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 24th January, 1859, for "A system of apparatus for excavating canals and rivers, &c."—Dated 12th February, 1859.

695. Jean Antoine Frédéric Joubert, of 53, Rue de la Roquette, Paris, for "Convex iron, with ribs for iron framings, floors, &c."—Dated 12th February, 1859.

696. Marie Ange Victor Moreau, of 1, Rue Royale à La Villette, for "A strangling bridle for horses, &c."—Dated 12th February, 1859.

697. Alexandre Lebon, of 8, Rue des Noyers, Paris, a Certificate of Addition to his Patent of 20th February, 1856, for "Printing type and vignettes or typographic engravings on gelatine card with inks of various colours, &c."—Dated 12th February, 1859.

698. Joseph Lamour, of 15, Rue Tiquetonne, Paris, for "A roasting grate."—Dated 12th February, 1859.

699. Amand Xavier Soulas, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of carriages."—Dated 12th February, 1859.

700. Michel Frenay, of 41, Rue Ste. Anne, Paris, for "Straw hats with cotton lace."—Dated 15th February, 1859.

701. Prudent Françoise Cochot, of 3, Passage du Jardin, Montrouge, for "Fancy arms."—Dated 15th February, 1859.

702. Julien Isidore Lefebure, of Rue de la Michodière, Hôtel de Gand, Paris, a Certificate of Addition to his Patent of 21st February, 1857, for "Retting flax and other textile substances."—Dated 15th February, 1859.

703. Edouard Wilkins, of 39, Rue de l'Echiquier, Paris, for "Improvements in the manufacture of drain pipes and other apparatus for conveying

manure to the subsoil."—Dated 15th February, 1859.—(English Patent, expiring 1st February, 1873.)

704. Aimable Philémond Marguier, of 13, Rue Duperré, Paris, for "A machine for making corks of various shapes, &c."—Dated 15th February, 1859.

705. André Georges Ardillon, of 11, Rue des Lions St. Paul, Paris, for "A portable coal-hole."—Dated 15th February, 1859.

706. Jean Paul Dordet, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A portable machine for corking bottles."—Dated 15th February, 1859.

707. Victor Auguste Théophile Monbarqué, of 13, Rue des Vertus, Paris, for "Apparatus for the manufacture of pearls and other fancy articles."—Dated 15th February, 1859.

708. Nicolas Bienvenu, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "So-called 'empire petticoats.'"—Dated 15th February, 1859.

709. François Ernest Breton, of 29, Rue Censier, Paris, for "A mechanical process for graining hides."—Dated 14th February, 1859.

710. Bozonet and Alvergniat, of 24, Chaussée de Clignancourt, Montmartre, for "A powder for cleaning copper."—Dated 15th February, 1859.

711. Etienne Juzel, of 18, Rue Pérelle, Vaugirard, for "A system of railway carriages."—Dated 15th February, 1859.

712. Jean Dominique Cazaubon, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Moveable water-closets with a separating apparatus."—Dated 15th February, 1859.

713. Pierre Emile Martin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 11th June, 1858, for "An apparatus working by the reaction of water, air, &c."—Dated 15th February, 1859.

714. Jean Baptiste Falguière, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 10th September, 1857, "Mills with vertical millstones, &c."—Dated 15th February, 1859.

715. Louis Fleurus Gustave Petitpierre-Pellion, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A pocket registering apparatus."—Dated 15th February, 1859.

716. Isaac Daniel, of 8, Rue Thevenot, Paris, for "A kind of petticoats."—Dated 15th February, 1859.

717. Guillaume Philippe Wünsch, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of collars and other harness."—Dated 15th February, 1859.

718. Amans de Chavagneus, of 58, Quai de la Mégisserie, Paris, a Certificate of Addition to his Patent of 2nd December, 1858, for "A system of wefts for fabrics."—Dated 16th February, 1859.

719. James Parkinson, represented by Perpigna, of 42, Rue Neuve Ste. Augustin, Paris, for "Improvements in the construction of coffins."—Dated 16th February, 1859.—(English Patent, expiring 11th February, 1873.)

720. Nicolas Clément Yot, of 37, Rue Phelippeaux, Paris, a Certificate of Addition to his Patent of 19th March, 1857, for "A pencil case."—Dated 16th February, 1859.

721. Robert Jofferson Bingham, represented by Yapp, of 6, Rue Montpensier, Paris, for "Improvements in telegraphic cables."—Dated 16th February, 1859.

722. Jacques Amédée Barrier, domiciled with Denouille, of 66, Rue Basse du Rempart, Paris, a Certificate of Addition to his Patent of 11th August, 1858, for "A lace loom."—Dated 16th February, 1859.

723. William Adolphe Covert, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Self-acting switches."—Dated 16th February, 1859.—(English Patent, expiring 10th February, 1873.)

724. Pierre Denis Dujat, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in travelling cases."—Dated 16th February, 1859.

725. Mamour and Schmitz, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of blinds, screens, &c."—Dated 16th February, 1859.

726. Henri Dominique Popot, of 48, Rue des Vignes, Vaugirard, for "Colouring coffee."—Dated 16th February, 1859.

727. Jules Joseph Félix Hanon, of 49, Avenue de Clichy, Batignolles, for "Vegetable glue of gluten."—Dated 16th February, 1859.

728. Adolphe Charles Guillemot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A writing machine."—Dated 16th February, 1859.

729. C. Edouard Janicot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of covering halls, market-places, military fields and encampments, public monuments, and other surfaces."—Dated 16th February, 1859.

730. Victor Lenoir, of 2, Rue de l'Annonciade, Lyon, département du Rhône, for "Chemical process for giving fancy articles the lustre of silk."—Dated 14th February, 1859.

731. Guérin Longet, represented by Michael Longet, of 10, Rue de Béarn, Lyon, département du Rhône, for "A reducible spring mattress with an horizontal action and lateral supports."—Dated 15th February, 1859.

732. Stehelin and Co., represented by Stehelin, of Bitschwiller, département du Haut Rhin, a Certificate of Addition to their Patent of 18th December, 1858, for "A self-cleaning circular top card."—Dated 15th February, 1859.

733. Desvosseaux and Rollet, of 28, Rue de Bourbon, Lyon, département du Rhône, for "A condensing and heating apparatus."—Dated 15th February, 1859.

734. Fabius Mainardi, of 21, Place Tholozan, Lyon, département du Rhône, a Certificate of Addition to his Patent of 17th January, 1859, for "A wheel for throwing and measuring thread."—Dated 17th February, 1859.

635. Jean Pouzade, of 41, Rue Montbernard, Lyon, département du Rhône, for "A system of pumps."—Dated 17th February, 1859.

736. Louis Fossier, of Autry, département des Ardennes, for "A system of mills."—Dated 18th February, 1859.

737. Jacques Désiré Delille, of Evreux, département de l'Eure, for "Improvements in his Patent economical kitchen range (N° 25,468)."—Dated 17th February, 1859.

738. Poron Brothers, of Troyes, département de l'Aube, for "Improvements in machines for manufacturing hosiery articles."—Dated 18th February, 1859.

739. Jacques Porlier, of 204, Cours St. Jean, Bordeaux, département de la Gironde, for "A double screw wheel for cleaning and sorting earth-nuts."—Dated 19th February, 1859.

740. François Gravier, of Valencienne, département du Nord, for "A patent lever axle."—Dated 19th February, 1859.

741. François Gravier, of Valencienne, département du Nord, for "A machines for making horse-shoes."—Dated 19th February, 1859.

742. François Gravier, of Valencienne, département du Nord, for "Tyres which are convex on both sides."—Dated 19th February, 1859.

743. François Gravier, of Valencienne, département du Nord, for "A patent jack axle."—Dated 19th February, 1859.

744. François Gravier, of Valencienne, département du Nord, for "Manufacture of wheels with one single felly of bent wood."—Dated 19th February, 1859.

745. Jacques Antoine Vouillon, of St. Racho, département de Saône-et-Loire, a Certificate of Addition to his Patent of 23rd November, 1857, for "A plough, &c."—Dated 19th February, 1859.

746. Adrien Renatry, of Vesoul, département de la Haute Saône, for "A machine for essaying and cleansing water pipes."—Dated 21st February, 1859.

747. Dubosc and Lefebvre, of 13, Route de Caen, Rouen, département de la Seine Inférieure, for "Improvements in French looms."—Dated 14th February, 1859.

748. Ambroise Alavoine, of 43, Rue de la Justice, Elbeuf sur Seine, a Certificate of Addition to his Patent of 27th December, 1856, for "A machine for weaving all kinds of stuffs."—Dated 16th February, 1859.

749. Claude Febvret, of 4, Rue de la Madeleine, Dijon, département de la Côte d'Or, a Certificate of Addition to his Patent of 10th December, 1858, for "Letter envelopes, &c."—Dated 19th February, 1859.

750. Charles Gentil, of 30, Quai Lamiral-Lalande, Mans, for "Closing digesters used especially for preserving alimentary substances."—Dated 19th February, 1859.

751. François Joseph Cuvillier, of Arras, département du Pas de Calais, for "A rasp with a pushing and peeling apparatus."—Dated 18th February, 1859.

752. Rénis and Monié, of 50, Boulevart St. Aubin, Toulouse, département de la Haute Garonne, a Certificate of Addition to his Patent of 19th February, 1858, for an "Aerometric regulator."—Dated 19th February, 1859.

753. Eugène Pasquier, of Rue Hinemar Prolongé, Reims, département de la Marne, for "A machine for washing wool and other objects."—Dated 21st February, 1859.



SWEDEN.*

List of Patents of Inventions and Improvements granted during the year 1858.†

(For preceding List, see No. 466 of this Journal.)

(*Communicated by the Swedish Government.*)

1. L. A. Larsson, for "An agricultural machine for breaking up reeds and stubbles."—7 years.—Dated 9th January, 1858.
2. F. Siemens, of London, for "A furnace."—8 years.—Dated 27th January, 1858.
3. A. Murtineddu, of Marseilles, for "Manufacturing and using a composition for blasting."—8 years.—Dated 11th February, 1858.
4. H. Bessemer, of London, for "A furnace for the manufacture of bar-iron and steel."—9 years.—Dated 26th February, 1858.
5. P. J. Ekman, for "A machine for planing and smoothing beams, boards, planks, and lists."—10 years.—Dated 2nd March, 1858.
6. L. D. Girard, of Paris, for "A turbine."—8 years.—Dated 18th March, 1858.
7. E. Grenet and A. Vavin, of France, for "An electrical battery."—8 years.—Dated 22nd March, 1858.
8. C. A. Angström, for "A nail-machine."—10 years.—Dated 29th March, 1858.
9. C. M. Th. Scharin, for "A machine for sawing and cutting wood."—10 years.—Dated 12th May, 1858.
10. T. Petit Jean, of Belgium, for "A mode of manufacturing aluminium and magnesium."—5 years.—Dated 12th May, 1858.

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* For the Swedish Patent Law, see No. 354 of this Journal.

† The preceding Lists, from 1830 to 1856, may be consulted in the Library of the Great Seal Patent Office in the original and in an English translation.

11. C. Tollen, for "Manufacture of waterproof leather."—8 years.—Dated 27th May, 1858.

12. E. Cumenge, of France, for "A process for the manufacture of aluminium."—8 years.—Dated 4th June, 1858.

13. W. Miller, for "Improvements in the mode of making sugar, and in certain apparatus belonging thereto."—10 years.—Dated 19th June, 1858.

14. C. U. Lindblad, for "A mixture of colours for painting iron and wooden vessels, and other articles which are exposed to the action of the atmosphere or water."—3 years.—Dated 19th June, 1858.

15. Th. Boberg, for "A mode of screwing or fastening the boxes of valves, applicable to all machines."—6 years.—Dated 30th June, 1858.

16. C. A. Rettig, for "Improvements in iron works."—10 years.—Dated 30th June, 1858.

17. Hands Johnson, for "Improvements in drying and burning bricks."—8 years.—Dated 30th June, 1858.

18. N. Nordenskjold and B. G. Bredberg, for "Improvements in the manufacture of rich and poor sulphurous copper ore."—10 years.—Dated 14th July, 1858.

19. Th. Munktell, for "Moveable steam engines, or so-called 'locomotives,' with an apparatus for extinguishing sparks."—10 years.—Dated 6th August, 1858.

20. W. Bystrom, for "A lime-kiln worked by means of coal and peat."—5 years.—Dated 28th August, 1858.

21. V. Sjoberg, for "Improvements in so-called 'American chain pumps.'"—8 years.—Dated 2nd September, 1858.

22. J. P. Broberg, for "Improvements in naphtha or gas-oil lamps."—8 years.—Dated 13th September, 1858.

23. A. K. Hazelius and J. Ohlsson, for "Manufacture of tallow candles from certain fusible substances."—4 years.—Dated 13th September, 1858.

24. V. Merighi, for "Means of preventing or abating dust on railways."—6 years.—Dated 13th September, 1858.

25. G. Cavaggia and A. Spinelli, for "A new motor for machines used in industry."—10 years.—Dated 17th September, 1858.

26. L. F. Corbelli, of Florence, for "Improvements in separating aluminium from its component parts."—8 years.—Dated 27th September, 1858.

27. H. F. W. Wesch, for "A mode of fixing slates on roofs of a certain shape."—5 years.—Dated 27th September, 1858.

28. H. B. Nabstedt, for "Improvements in closets."—8 years.—Dated 30th September, 1858.

29. G. Rhodes, of England, for "Camp or field tents without centre support or pole."—8 years.—Dated 7th October, 1858.

30. A. Mörsch, for "Stoves of earthen panes and grates of fire-places."—7 years.—Dated 13th October, 1858.

31. J. and Ezra Harthan, for "Improvements in machines for obtaining motive power."—10 years. Dated 14th October, 1858.

32. J. Thermaenins, for "A horse-gin."—6 years. Dated 10th November, 1858.

33. F. Wedel Jarlsberg, for "A so-called 'control-compass.'"—10 years.—Dated 22nd November, 1858.

34. Ross and Thos. Winans, of Baltimore, for "Improvements in the form of the hull of steam vessels."—10 years.—Dated 27th November, 1858.

35. Ross and Th. Winans, of Baltimore, for "Improvements in the construction of steam vessels."—10 years.—Dated 27th November, 1858.

36. Ross and Th. Winans, of Baltimore, for "Improvements in ocean steamers."—10 years.—Dated 27th November, 1858.

37. Ross and Th. Winans, of Baltimore, for "Improvements in the mode of connecting the machinery of steam vessels with the shafts of screws."—10 years.—Dated 27th November, 1858.

38. G. H. Ozouf, of Paris, for "Apparatus for converting lime used for defecating the juice of beetroot and cane into carbonate, and applying said apparatus to sugar works."—8 years.—Dated 13th December, 1858.

39. A. Normann, for "An apparatus for distilling spirits."—10 years.—Dated 13th December, 1858.

40. A. Olzon, for "A turbine."—7 years.—Dated 20th December, 1858.

41. P. B. Sanderson, for "Manufacture of paper pulp from leaves of trees."—6 years.—Dated 20th December, 1858.

COLONIAL PATENT LAW.

INDIA.

AN ACT FOR GRANTING EXCLUSIVE PRIVILEGES TO INVENTORS.

Victoria R.

Whereas by the 26th section of the Act passed in the 16th and 17th years of Our reign, entitled "An "Act to provide for the Government of India," it is provided that "no law or regulation made by the Go- "vernor-General in Council shall be invalid by reason "only that the same affects any prerogative of the "Crown, provided such law or regulation shall have "received the previous sanction of the Crown, signi- "fied under the Royal Sign Manual of Her Majesty, "countersigned by the President of the Board of "Commissioners for the Affairs of India:"

And whereas by the 3rd section of an Act passed in the 21st and 22nd years of Our reign, entitled "An "Act for the better Government of India," it is enacted that "any warrant or writing under Her "Majesty's Royal Sign Manual, which, by the Act "of the Session holden in the 17th and 18th years "of Her Majesty, chapter 77, or otherwise, is required "to be countersigned by the President of the Com- "missioners for the Affairs of India, shall, in lieu of "being so countersigned, be countersigned by one "of Her Majesty's Principal Secretaries of State:"

And whereas it is intended to introduce into the Legislative Council of India the draft of a proposed

Act "for granting exclusive privileges to inventors," which is of the tenor and effect following; (that is to say),

Preamble.

Whereas Act VI. of 1856, entitled "An Act for "granting exclusive privileges to Inventors," was passed by the Legislative Council of India without the sanction of Her Majesty to the passing thereof having been previously obtained and signified in pursuance of the statute passed in the seventeenth year of the reign of Her Majesty, entitled "An Act to "provide for the Government of India:" And whereas Her Majesty's Law Officers having given it as their opinion that the Legislative Council of India was not competent to pass Act VI. of 1856, without previously obtaining the sanction of the Crown, and the Court of Directors of the East India Company having in pursuance of the power vested in them by law disallowed Act VI. of 1856, and having signified to the Governor General of India in Council their disallowance thereof, the said Act was repealed by Act IX. of 1857: And whereas it is expedient, for the encouragement of inventors of new manufactures, that certain exclusive privileges in their inventions should be granted to them in India, and that exclusive privileges obtained under the said Act should be protected: It is enacted as follows (the sanction of Her Majesty to the passing of this Act having been previously obtained and signified in pursuance of the said statute):—

Inventor may petition for Leave to file Specification.—Form, &c. of Petition.

I. The inventor of any new manufacture may petition the Governor General of India in Council for leave to file a specification thereof. Every such petition shall be in writing in the form or to the effect mentioned in the schedule hereunto annexed, and shall be signed by the petitioner or (in case the petitioner shall be absent from India), by an authorized agent, and shall state the name, addition, and place of residence of the petitioner, and the nature of the invention.

Order to file Specification.

II. Upon such petition the Governor General of India in Council may make an order authorizing the petitioner to file a specification of the invention.

Power to refer Petition for Enquiry and Report.

III. Before making such order the Governor General of India in Council may refer the petition to any person or persons for inquiry and report, and such person or persons shall be entitled to a reasonable fee for such enquiry and report, to be paid by the petitioner, the amount of such fee, in case of dispute, to be settled by a judge of one of Her Majesty's Courts of Judicature in a summary manner.

Petitioner entitled to exclusive Privilege for Fourteen Years from the time of filing Specification.—Extension of Term of exclusive Privilege.

IV. If, within the space of six calendar months from the date of such order the petitioner cause a specification of his invention to be filed in manner herein-after mentioned, the petitioner, his executors, administrators, or assigns, shall be entitled to the sole and exclusive privilege of making, selling, and using the said invention in India, and of authorizing others so to do, for the term of fourteen years from the time of filing such specification, and for such further term (if any) not exceeding fourteen years from the expiration of the first fourteen years, as the Governor General of India in Council may think fit to direct, upon petition to be presented by such inventor, at any period not more than one year, and not less than six calendar months, before the expiration of the exclusive privilege hereby granted.

Order to file Specification may be made subject to Conditions.

V. An order authorizing the filing of a specification, or for extending the term of such exclusive privilege as aforesaid, may be made subject to any such conditions and restrictions as the Governor General of India in Council may think expedient.

Specification to be in Writing, and to describe the Invention.

VI. Every specification of an invention filed under this Act shall be in writing, and shall be signed by the petitioner, and shall particularly describe and ascertain the nature of the said invention, and in what manner the same is to be performed.

Petition and Specification to be left with Secretary to Government.—Petition, &c. to be accompanied by Declaration.—Date of Delivery to be endorsed on Petition.

VII. Every petition for leave to file a specification and every specification filed under this Act shall be left with the Secretary to the Government of India in the Home Department, and every petition and specification shall be accompanied by a declaration in writing, signed by the petitioner in the form or to the effect mentioned in the Schedule hereunto annexed, marked A and B respectively; and if the inventor be absent from India, the petition and specification shall also be accompanied by a declaration signed by the agent who shall present or file the same, to the effect that he verily believes that the declaration, purporting to be the declaration of the inventor, was signed by him, and that the contents thereof are true, which declaration shall be in the form, or to the effect mentioned in the said Schedule. The date of the delivery of every such petition and specification shall be endorsed on the same respectively, and shall also be recorded at the office of the said secretary.

False Statement in Declaration punishable as Perjury.

VIII. If any person who shall make a declaration under this Act shall wilfully and corruptly make any false statement therein, he shall be deemed guilty of perjury, and shall be proceeded against, and upon conviction punished accordingly.

Specification not to be filed before Payment of Fees.

IX. No specification shall be filed until the petitioner shall have paid all fees payable under this Act, including the fees (if any) of the person or persons to whom the petition shall have been referred for enquiry and report.

Copies of Specification to be delivered and distributed.—To be open to Inspection.

X. At the time of delivering the specification for the purpose of being filed, the petitioner shall cause

to be delivered to the said secretary five copies thereof, of which,—

One shall be sent to and filed by one of the Secretaries to the Government of Bengal;

One shall be sent to and filed by one of the Secretaries to the Government of Fort St. George;

One shall be sent to and filed by one of the Secretaries to the Government of Bombay; and

One shall be sent to and filed by one of the Secretaries to the Government of the North-Western Provinces.

A copy of such specification shall be open at all reasonable times at the Office of each of the said Secretaries to public inspection upon payment of a fee of one Rupee.

Books for the Registry of Petitions, Specifications, &c.

XI. A book shall be kept in the office of the said secretary to the Government of India, wherein shall be entered and recorded every such petition and specification, and every order made upon such petition or relating to the invention therein mentioned. Every specification shall be numbered according to the order in which it is entered in such book; and a reference shall be made in such book, in the margin of the entry of each specification, to every order relating to the invention, and to every petition, memorandum, or amended specification, which shall be filed under the provisions of Section 14.

Inspection of Registry Book.—Certified Copy of Entry to be given.

XII. Such book, or a copy thereof, shall be open at all convenient times for the inspection of any person upon payment of a fee of one rupee; and the said Secretary shall cause a copy of any entry therein, certified under his hand, to be given to any person requiring the same on payment of the expense of copying.

Certified Copy to primâ facie Evidence.

XIII. Every such certified copy shall be primâ facia evidence of the document of which it purports to be a copy.

In what Cases Petitioner may apply for Leave to file amended Specification.—Effect of amended Specification.

XIV. If after the filing of the specification the petitioner shall have reason to believe that through mistake or inadvertence he has erroneously made any mis-statement in his petition or specification, or included therein something which at the date of his petition was not new or whereof he was not the inventor, or that such specification is in any particular defective or insufficient, he may petition the Governor General in Council for leave to file a memorandum, pointing out such error, defect, or insufficiency, and disclaiming any part of the alleged invention, or in case of any defect or insufficiency of the specification for leave to file an amended specification. The petition shall state how the error, defect, or insufficiency occurred, and that it was not fraudulently intended, and shall be accompanied by a declaration in writing signed by the petitioner, and if he be absent from India by his agent, stating that the contents of such petition are true, to the best of his knowledge and belief. Upon such petition the Governor General in Council may make an order allowing such memorandum or amended specification to be filed. All the provisions of sections X., XI., XII., and XIII., applicable to the specifications, shall be applicable to the petitions, orders, and memoranda or amended specifications referred to in this section. An amended specification filed under the provisions of this Act shall, except as to suits or proceedings relating to the exclusive privilege which shall be pending at the time of the filing of such amended specification, have the same effect as if it had been the specification first filed; provided that nothing contained in an amended specification shall extend or enlarge any exclusive privilege before acquired.

No Person entitled to exclusive Privilege in any of the following Cases:—If Invention is of no Utility, or—If Invention not new, or—If Petitioner is not Inventor, or—If Specification does not describe the Invention.—If Petition or Specification contain fraudulent Mis-statement.

XV. No person shall be entitled to any exclusive privilege under the provisions of this Act—

If the invention is of no utility, or

If the invention, at the time of presenting the petition for leave to file the specification, was not a new invention, or within the meaning of this Act, or

If the petitioner is not the inventor thereof, or

If the Specification filed or the amended specification (if any) does not particularly describe and ascertain the nature of the invention, and in what manner the same is to be performed, or

If the original or any subsequent petition relating to the invention or the original or any amended Specification contain a wilful or fraudulent mis-statement.

Exclusive Privilege to cease if Government declare it mischievous, &c. to public—Or, if Government, upon breach of Condition proved, declare that it shall cease.

XVI. Every exclusive privilege under this Act shall cease if the Governor General of India in Council shall declare that the same, or the mode in which it is exercised, is mischievous to the State, or generally prejudicial to the public; or if a breach of any special condition on which the petitioner shall be authorized to file a specification, or upon which the term of the exclusive privilege shall be extended, shall be proved to the satisfaction of any of Her Majesty's Courts of Judicature, and if the Governor General of India in Council shall thereupon declare that such exclusive privilege shall cease.

Importer of Invention, if not the actual Inventor, not to be deemed Inventor.

XVII. The importer into India of a new invention shall not be deemed an inventor within the meaning of this Act unless he be the actual inventor.

Foreign Inventor.

XVIII. A foreigner, whether resident abroad or not, may petition for leave to file a specification under this Act.

An Invention not publicly used or known in the United Kingdom or in India before the Application for Leave to file a Specification to be deemed a

new Invention within this Act.—Knowledge of Invention fraudulently acquired. — Proviso. — Public Use by actual Inventor.

XIX. An invention shall be deemed a new invention within the meaning of this Act if it shall not, before the time of applying for leave to file the specification, have been publicly used in India or in any part of the United Kingdom of Great Britain and Ireland, or been made publicly known in any part of India or of the United Kingdom by means of a publication, either printed or written, or partly printed and partly written. The public use or knowledge of an invention, prior to the application for leave to file a specification, shall not be deemed a public use or knowledge within the meaning of this section, if the knowledge shall have been obtained surreptitiously or in fraud of the inventor, or shall have been communicated to the public in fraud of the inventor or in breach of confidence: provided the inventor shall, within six calendar months after the commencement of such public use, apply for leave to file his specification, and shall not previously have acquiesced in such public use: provided also, that the use of an invention in public by the inventor thereof, or by his servants or agents, or by any other person by his licence in writing, for a period not exceeding one year prior to the date of his petition, shall not be deemed a public use thereof within the meaning of this Act.

Inventor having obtained English Letters Patent to petition within Twelve Months from the passing of this Act or from the Date of the Letters Patent. —Invention, if not publicly known or used in India at the Time of applying for such Letters Patent, to be deemed new.—What to be stated in such Petition.—Duration of exclusive Privilege.

XX. If an inventor who, prior to the time of applying for leave to file a specification of an invention under this Act, shall have obtained Her Majesty's Letters Patent for the exclusive use of such invention in the United Kingdom, or any part thereof, shall, within twelve calendar months from the passing of this Act, or within twelve calendar months from the date of such Letters Patent, petition the Governor General of India in Council for leave to file a specification of such invention (which petition shall be in writing, in the form or to the effect mentioned in the schedule), the invention shall be deemed a new invention within the meaning of this Act, if it was not publicly known or used in India at or before the date of the petition for such Letters Patent, notwithstanding it may have been publicly known or used in some part of the United Kingdom or in India before the time of his petitioning, under this Act, for leave to file the specification: Provided the petition for leave to file the specification shall state that such Letters Patent have been granted, and shall also state the date thereof and the term during which the same are to continue in force: Provided also, that an exclusive privilege obtained under the provisions of this Act by an inventor who has obtained Her Majesty's Letters Patent for the exclusive use of such invention, shall cease to have effect if such Letters Patent be revoked or cancelled; and that no such exclusive privilege shall extend beyond the term granted by such Letters Patent unless the same shall be renewed, in which case the exclusive privilege may be renewed under this Act for the extended term or any part thereof.

Saving of Rights of Persons who used Invention before 7th of July, 1855.

XXI. No exclusive privilege obtained under this Act shall entitle the owner of such privilege to exclude any person from using the invention, who, prior to the 7th day of July, 1855, used the same in India.

Action for Infringement.

XXII. An action may be maintained by an inventor against any person who, during the continuance of any exclusive privilege granted by this Act, shall, without the licence of the said inventor, make, use, sell, or put in practice the said invention, or who shall counterfeit or imitate the same. Provided that no such action shall be maintained in any court other than the principal court of original jurisdiction in civil cases within the local limits of whose jurisdiction the cause of action shall accrue or the defendant shall reside as a fixed inhabitant.

Defect in Specification or Petition, or want of Novelty in Invention, &c., no Defence to Action for Infringement.—The actual Use of an Invention in India or the United Kingdom before Date of Petition a Defence to such Action.

XXIII. No such action shall be defended upon the ground of any defect or insufficiency of the specification of the invention, nor upon the ground that the original or any subsequent petition relating to the invention, or the original or any amended specification, contains a wilful or fraudulent mis-statement; nor upon the ground that the invention is not useful; nor shall any such action be defended upon the ground that the plaintiff was not the inventor, unless the defendant shall show that he is the actual inventor, or has obtained a right from him to use the invention either wholly or in part. Any such action may be defended upon the ground that the invention was not new if the person making the defence, or some person through whom he claims, shall, before the date of the petition for leave to file the specification, have publicly or actually used, in India or in some part of the United Kingdom, the invention, or that part of it of which the infringement shall be proved, but not otherwise.

Application to Supreme Courts to declare exclusive Privilege not to have been acquired on following Grounds:—Invention of no Utility.—Invention not new.—Petitioner not the Inventor.—Invention not described in Specification.—Fraud in Petition or Specification.—Fraudulent Mis-statement in Petition or Specification.—Insufficient Description of Part of Invention in Specification.

XXIV. It shall be lawful for any person to apply by motion to any of Her Majesty's Courts of Judicature for a rule to show cause why the Court should not declare that an exclusive privilege in respect of an invention has not been acquired under the provisions of this Act by reason of all or any of the objections following (to be specified in the rule); that is to say:—

That the said invention is of no utility, or,

That the said invention was not, at the time of presenting the petition for leave to file the specification a new invention within the meaning of this Act, or,

That the petitioner was not the inventor thereof, or,

That the specification filed, or the amended specification (if any) does not particularly describe and ascertain the nature of the invention, or in what manner the same is to be performed, or,

That the petitioner has knowingly or fraudulently included in the petition or specification, or amended specification, as part of his invention, something which was not new or whereof he was not the inventor, or

That the original or any subsequent petition relating to the invention, or the original or any amended specification, contains a wilful or fraudulent mis-statement, or

That some part of the invention, or the manner in which that part is to be performed, as described in the specification filed, or the amended specification, is not thereby sufficiently described and ascertained, and that such defect or insufficiency was fraudulent and is injurious to the public.

Like Application as to Part of an Invention.

XXV. Any person may, in like manner, apply to any of Her Majesty's Courts of Judicature for a rule to show cause why the Court should not declare that an exclusive privilege has not been acquired under the provisions of this Act in respect of any part of the invention to be specified in the rule by reason of all or any of the objections following (to be specified in the rule), that is to say,—

That such part of the invention is wholly distinct from the other part thereof, and is of no utility, or

That such part of the invention was not, at the date of the petition for leave to file the specification, a new invention within the meaning of this Act, or

That the petitioner was not the inventor of that part of the invention, or

That that part of the invention, and the manner in which it is to be performed, is not sufficiently described and ascertained in the specification filed or the amended specification, and that such defect or insufficiency is injurious to the public.

Application by Advocate General on Breach of Special Condition.

XXVI. It shall be lawful for the Advocate General at any of the Presidencies of Fort William in Bengal, Fort St. George, and Bombay, or any other person, by order of the Governor General in Council, to apply to any of the said Courts of Judicature for a rule calling upon the petitioner, his executors, administrators, or assigns, to show cause why the question of the breach of any special condition upon which the leave to file a specification has been granted, or any other question of fact on which the revocation of the exclusive privilege by the Governor General in Council under the power herein-before reserved may, in the judgment of the said Governor General in Council, depend, should not be tried in the form of an issue directed by the said Court; and if the rule be made absolute, the Court, unless the breach or other matter of fact be admitted, may thereupon direct such issue to be tried, and certify the result of such trial to the Governor General in Council; the costs of such trial, and also the costs of any proceedings in any of the said courts of judicature under the provisions of this Act, shall be in the discretion of the Court.

Service of Proceedings on all Persons interested.

XXVII. Notice of any rule obtained or proceeding taken under either of the last three preceding Sections shall be served on all persons appearing to be proprietors or to have shares or interests in the exclusive privilege under the provisions of Section XXXV. of this Act, and it shall not be necessary to serve such notice on any other persons.

Supreme Court may direct Issue for Trial to other Courts.—New Trial.

XXVIII. Any of the said Courts of Judicature, if it think fit, may direct an issue for the trial, before the same Court or any other Court of Judicature, or any principal Court of original jurisdiction in Civil cases of any question of fact arising upon an application under Sections XXIV., XXV., or XXVI., of this Act, and such issue shall be tried accordingly in a summary manner, and if the issue be directed to another Court, the finding shall be certified by the Court before which the same was tried. to the Court directing the issue. If the issue be directed to any Courts of Judicature, the Court by which the issue is tried may, before the finding is certified, direct a new trial of such issue according to the usual course and practice of such Court. If the issue be directed to any Court other than a Court of Judicature, the finding shall not be subject to appeal, but the evidence taken upon the trial shall be recorded, and a copy thereof, certified by the Judge, shall be transmitted, together with any remarks he may think fit to make thereon, to the Court by which the issue was directed; and such Court may either act upon the decision of the Court which tried the issue, or direct a new trial if it should appear necessary.

Judgment.—Costs.

XXIX. If it shall appear to any of the said Courts of Judicature at the hearing of any application under the provisions of Sections XXIV. or XXV. of this Act that, by reason of any of the objections therein mentioned, the said exclusive privilege in the invention or in any part thereof has not been acquired, the Court shall give judgment accordingly, and shall make such order as to the costs of and consequent upon the application as it may think just; and there, upon the petitioner, his executors, administrators, and assigns shall, so long as the judgment continues in force, cease to be entitled to such exclusive privilege.

Amendment of Specification by Court.—Proviso.

XXX. If the Court, at the hearing of any such application as last aforesaid, shall think that the petitioner has, in the description of his invention in the petition or specification, or amended specification (if any) included something which at the date of the petition was not new or whereof he was not the inventor, or that the specification is in any particular defective or insufficient, but that the error, defect, or insufficiency was not fraudulently intended, the Court may adjudge the said exclusive privilege to have been acquired and to be valid, save as to part thereof affected by such error, defect, or insufficiency, or if the Court shall think that the error, defect, or insufficiency can be amended without injury to the public, they may adjudge the exclusive privilege in the whole of the invention to be valid, and may, upon such terms as shall appear reasonable, order the

specification to be amended in any of the said particulars; and thereupon the petitioner, his executors, administrators, or assigns shall, within the time limited by the said Court for the purpose, file a specification amended according to such order. Provided that no such amended specification shall have the effect of extending or enlarging the exclusive privilege before acquired.

Mis-statement in the Petition, if not fraudulent, not to defeat the Privilege.

XXXI. An exclusive privilege shall not be defeated upon the ground that the petition contains a mis-statement, unless such mis-statement was wilful or fraudulent.

Entry in Registry Book of Judgment, &c., declaring Privilege not to have been acquired.

XXXII. Whenever it shall be adjudged by any of the said Courts of Judicature that an exclusive privilege as to the whole or any part of an invention has not been acquired, the said Secretary to the Government of India shall, upon the production of the judgment or order, cause an entry thereof to be made in the said book hereinbefore directed to be kept, and shall cause a reference to such entry to be made in the margin of the entry of the specification contained in such book.

In what case actual Inventor entitled to Assignment of an exclusive Privilege fraudulently obtained.

XXXIII. If, upon proceedings instituted within two years from the date of a petition to file a specification, the actual inventor shall prove to the satisfaction of the principal Court having jurisdiction in Civil cases, within the local limits of whose jurisdiction the defendant shall reside as a fixed inhabitant, that the petitioner was not the actual inventor, and that at the time of the petition he knew or had good reason to believe that the knowledge of the invention was obtained by himself, or by some other person, surreptitiously or in fraud of the actual inventor, or by means of a communication made in confidence by the actual inventor to him, or to any person through whom he derived such knowledge, the Court may compel the petitioner to assign to the actual inventor any exclusive privilege obtained under this Act, and to account for and pay over the profits thereof.

Particulars to be delivered.

XXXIV. In any action for the infringement of such exclusive privilege the plaintiff shall deliver with his plaint particulars of the breaches complained of in the said action; and the defendant shall deliver a written statement of the particulars of the grounds (if any) upon which he means to contend that the plaintiff is not entitled to an exclusive privilege in the invention. In like manner, upon any application to any of the said Courts of Judicature under Sections XXIV., XXV., or XXVI. of this Act, the applicant shall deliver particulars of the objections on which he means to rely. At the trial of any such action or issue, no evidence shall be allowed to be given in support of any alleged infringement, or of any objection impeaching the validity of such exclusive privilege which shall not be contained in the particulars delivered as aforesaid. If it be alleged that the invention was publicly known or used prior to the date of the petition for leave to file such specification, the places where and the manner in which the invention was so publicly known or used shall be stated in such particulars. Provided always, that it shall be lawful for any Court in which the action or proceeding is pending or in which the issue is tried to allow the plaintiff or defendant respectively to amend the particulars delivered as aforesaid upon such terms as shall seem fit.

Service of Proceedings.

XXXV. A book shall be kept in the office of the Secretary to the Government of India in the Home Department (such book to be open to inspection without fee) wherein every person filing a specification under this Act, or any person to whom the exclusive privilege may be assigned, shall cause to be stated some place in India where service of any rule or proceedings for the purpose of cancelling or revoking his exclusive privilege may be made, and shall cause a reference to such entry to be made in the margin of the entry of the specification; and may from time to time cause any other place in India to be substituted by similar entry and reference. All such rules and proceedings as aforesaid shall be deemed sufficiently served if a copy thereof be left at the place entered in such book or (if any other place be substituted for the same by entry in the said book) at the place last substituted, by delivering the same to any person resident at, or in charge of, such place: or, if there be no person resident at, or in charge of, such place, or if such place be not within the local limits of the jurisdiction of the Court, by causing such rule or proceeding to be sent by post, by a registered letter, directed to such person, at such place; and if any such person shall neglect to make or cause to be made such entry, then service of such rule or proceeding may be effected by affixing a copy thereof to some conspicuous part of the Court House, or in such other manner as the Court may direct.

Act VI. of 1856 *to have Effect in respect of certain Specifications filed and Acts done.*

XXXVI. Act VI. of 1856 shall be of the same force and effect in respect to every petition and specification filed under the provisions thereof before the Act was repealed, and in regard to all proceedings consequent thereon or in relation thereto, and for the purpose of everything done under that Act while it continued in force, as if previously to the passing of the said Act the sanction of Her Majesty to the passing thereof had been obtained and signified in pursuance of the Statute passed in the seventeenth year of the reign of Her Majesty, entitled "An Act to provide for the Government of India," and as if the said Act had not been repealed, and the term of every exclusive privilege obtained under the said Act is hereby extended, and shall continue until the expiration of fourteen years from the time of the passing of this Act. No exclusive privilege obtained under the said Act by an importer, not being the actual inventor, shall cease to have effect by virtue of the provisions of Section XVI. of the said Act, if the invention be put in practice in India within the period of two years from the time of the passing of this Act.

Stamp on Petition.

XXXVII. Every petition for leave to file a specification under the provisions of this Act, or for the

extension of the term of an exclusive privilege, shall be written or printed on stamped paper of the value of one hundred rupees.

Interpretation.

XXXVIII. In the construction of this Act, the following words and expressions shall have the meanings hereby assigned to them, unless there be something in the subject or context repugnant to such construction.

Number.

Words importing the singular number shall include the plural number, and words importing the plural number shall include the singular number.

Gender.

Words importing the masculine gender shall include females.

"Invention."

The word "invention" shall include an improvement.

"Manufacture."

The word "manufacture" shall be deemed to include any art, process, or manner of producing, preparing, or making an article, and also any article prepared or produced by manufacture.

"Printed."

The word "printed" shall include "lithographed."

"Inventor" and "Actual Inventor."

The words "inventor" and "actual inventor" shall include the executors, administrators, or assigns of an inventor or actual inventor, as the case may be.

"Assigns."

The word "assigns" shall include grantees of the sole use or benefit in India of an invention, or of the sole use of an exclusive privilege for a limited time.

"India."

The word "India" shall mean the territories which are or may become vested in Her Majesty by the statute 21 and 22 Vict. c. 106, entitled "An "Act for the better Government of India."

"Governor General in Council."

The words "Governor General in Council" shall include the "President in Council."

"Secretary to the Government of India."

The words "Secretary to the Government of India" shall include any Under-Secretary to the said Government.

"Her Majesty's Courts of Judicature."—"Courts of Judicature."

The expressions "Her Majesty's Courts of Judicature" and "Courts of Judicature" shall mean the Courts established by Royal Charter.

SCHEDULE OF FORMS.

FORM of PETITION. (See Section 1.)

To the Governor General of India in Council.

The petition of [*here insert name, addition, and place of residence*] for leave to file a Specification under Act No.

Sheweth,

That your petitioner is in possession of an invention for [*state the title of the invention*], which invention he believes will be of public utility; that he is the inventor thereof [*or, as the case may be, the assignee or the executor or administrator of the inventor*]; and that the same is not publicly known or used in India or in any part of the United Kingdom of Great Britain and Ireland, to the best of his knowledge and belief.

The following is a description of the invention [*here describe it*].

Your petitioner therefore prays for leave to file a specification of the said invention pursuant to the provisions of Act No.

And your petitioner, &c.

The day of

(Signed) ———

FORM of DECLARATION to accompany Petition. (See Section 7.)

I [*here insert name, addition, and place of residence*] do solemnly and sincerely declare that I am in possession of an invention for [*state the title of the invention as in the petition*]; that I believe the said invention will be of public utility; that I am the inventor thereof [*or, as the case may be, the assignee or executor or administrator of the inventor*]; and that the same is not publicly known or used in India or in any part of the United Kingdom of Great Britain and Ireland to the best of my knowledge and belief; and that, to the best of my knowledge and belief, my said invention is truly described in my petition for leave to file a specification thereof.

The day of

(Signed) ———

FORM of DECLARATION to accompany Specification. (See Section 7.)

I [*here insert name, addition, and place of residence*] do solemnly and sincerely declare that I am in possession of an invention for [*state the nature of the invention*], which invention I believe will be of public utility; that I am the inventor thereof [*or, as the case may be, the assignee or executor or administrator of the inventor*]; and that the same is not publicly known or used in India or in any part of the United Kingdom of Great Britain and Ireland, to the best of my knowledge and belief; and that, to the best of my belief, the instrument in writing under my hand hereunto annexed particularly describes and ascertains the nature of the said invention and in what manner the same is to be performed.

The day of

(Signed) ———

FORM of DECLARATION by Agent where an Inventor is absent from India. (See Section 7.)

I of do solemnly and sincerely declare, that I have been appointed by the said

his agent for the purpose of ;
and I verily believe that the declaration purporting to be the declaration of the said
marked ( ) was signed by him, and that the contents thereof are true.
The day of
(Signed) ———

FORM of PETITION. (See Section 20.)

That your petitioner [*or as the case may be, that A.B. of whom your petitioner is the assignee or executor or administrator*] has obtained Her Majesty's Letters Patent, dated the day of
for [*state the title of the invention*], and that such Letters Patent are to continue in force for
years, that your petitioner believes that the said invention is not now and has not hitherto been publicly known or used in India.

The following is a description of the invention [*here describe it*].

Your petitioner therefore prays for leave to file a specification of the said invention, pursuant to the provisions of Act No.

And your petitioner, &c.
The day of
(Signed) ——

Now We, taking the same into Our Royal consideration, do hereby signify Our Royal sanction to the said proposed Act.

Given at Our Court at Osborne this nineteenth day of March, in the year of our Lord one thousand eight hundred and fifty-nine, and in the twenty-second year of our reign.

STANLEY.

List of Specifications, &c. published during the week ending 16th April, 1859.

No.	Price.	Subject-Matter.
2022	3*d.*	Holding and carrying cartridges.
2025	7*d.*	Block printing.
2026	7*d.*	Railway breaks.
2028	3*d.*	Screw press.
2030	3*d.*	Taps, cocks, valves, &c.
2031	10*d.*	Life boats.
2032	8*d.*	Apparatus for preventing the incrustation of steam boiler flues.
2033	3*d.*	Pistons and safety valve levers of steam and other engines.
2034	9*d.*	Safety valves of steam boilers.
2035	3*d.*	Treating silk.
2036	3*d.*	Preparing sulphate of quinine.
2037	11*d.*	Apparatus for regulating the flow of fluids.
2038	1*s.* 4*d.*	Machine for tapping nuts, bolts, and screws, &c.
2039	3*d.*	Buoyant mattresses.
2040	5*d.*	Advertising.
2041	3*d.*	Substitute for leather and leather cloth.
2042	6*d.*	Apparatus for propelling ships, &c.
2043	3*d.*	Manufacture of grease for lubricating purposes.
2044	6*d.*	Railway breaks.
2045	6*d.*	Bridle bits.
2046	2*s.* 6*d.*	Machinery and apparatus used for preparing fabrics or materials to receive eyelet holes or fastenings, &c.
2047	3*d.*	Weaving checks in power looms.
2048	3*d.*	Preparation of lubricating compounds.
2049	3*d.*	Materials for dyeing and printing.
2050	6*d.*	Self-priming apparatus for fire-arms.
2051	3*d.*	Steam boilers.
2052	1*s.* 1*d.*	Machinery for the preparation of cotton, &c.
2053	1*s.* 1*d.*	Pneumatic catheter.
2054	3*d.*	Jacquard machines.
2055	3*d.*	Communicating railway signals.
2056	7*d.*	Machines for decorticating and cleaning grain and seeds.
2057	7*d.*	Water wheels.
2058	1*s.* 4*d.*	Machinery for preparing and spinning cotton, wool, &c.
2059	10*d.*	Pile-driving machines.
2060	3*d.*	Toy.
2061	6*d.*	Apparatus for lowering or paying out ships' chains and anchors.
2062	3*d.*	Preparation of food.
2063	3*d.*	Manufacture of coke.
2064	6*d.*	Cleaning and preparing silk crapes, &c.
2065	3*d.*	Manufacture of crown and round glass.
2066	6*d.*	Tap or cock for drawing off and filtering liquids.
2067	3*d.*	Tonic medicine.
2069	10*d.*	Machinery for preparing and spinning cotton, wool, &c.
2070	3*d.*	Manufacture of soda and potash.
2071	3*d.*	Bleaching yarn, warps, or similar materials.
2072	6*d.*	Self-acting mules.
2073	3*d.*	Separating solids from liquids for the purpose of disinfection.
2074	10*d.*	Refrigerators, &c.
2075	6*d.*	Manufacture of metallic tubes.
2076	10*d.*	Apparatus for cleaning grain or seeds and bran.
2077	3*d.*	Manufacture of hats.
2078	3*d.*	Helmet.
2079	9*d.*	Ships' pumps, &c.
2080	1*s.*	Looms.
2081	7*d.*	Apparatus for measuring the pressure of fluids by the flexion of diaphragms.
2082	1*s.* 4*d.*	Coke and gas kilns.
2083	6*d.*	Moulding cog wheels.
2084	3*d.*	Signals.
2085	2*s.* 10*d.*	Fuses.
2086	11*d.*	Spinning mules, &c.
2087	10*d.*	Apparatus employed in the production of light.
2088	3*d.*	Stoves or fire-places.
2089	9*d.*	Fastenings of railways.
2090	6*d.*	Fire engines.
2092	3*d.*	Portable apparatus for creosoting hop poles, &c.
2093	3*d.*	Manufacture of gloves.
2096	3*d.*	Apparatus for boring and sinking.
2101	9*d.*	Tobacco press.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Errata in Journal of 15th April.

816. For "Improvements in solidifying," read "Improvements in machinery for solidifying."

833. For "arrangements," read "arrangement."

A Free Library and Reading Room, in connection with the Office of the Commissioners of Patents, is open to the Public daily from 10 till 4 o'clock.

In addition to the Printed Specifications, Indexes, and other publications of the Commissioners, the Library includes a Collection of the leading British and Foreign Scientific Journals, and text-books in the various departments of science and art. A printed Catalogue of the Library is on sale.

Note.—The Commissioners' publications may be consulted daily in the Library of the British Museum; in the Library of the Society of Arts; and in the Free Libraries of the following Towns and Cities:—

Aberdeen (*Public Library Town House*).
Accrington (*Mechanics' Institution, Bank Street*).
Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
Bradford, Yorkshire (*Borough Accountant's Office, Corporation Buildings, Swain Street*).
Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
Leamington Priors (*Public Library, Town Hall*).
Leeds (*Town Clerk's Office, Town Hall*).
Leicester (*Corporation Library, Town Hall*).
Limerick.
Liverpool (*Free Public Library, Duke Street*).
——— (*Royal Institution*).
London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*).
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
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April 11	Monday -	216	361	577—Wet.
„ 12	Tuesday -	232	86	318—Fi.&Wet.
„ 13	Wednesday	110	89	199—Showery.
„ 14	Thursday*	92	—	92— „
„ 15	Friday -	91	—	91— „
„ 16	Saturday -	178	—	178— „
	Total -	919	536	1455

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572. To WILLIAM MITCALFE, of the Coal Exchange, London, Gentleman, for the invention of "Improvements in discharging cargoes, and in raising and lowering bodies."
On his petition, recorded in the Office of the Co mmis sioners on the 3rd day of March, 1859.

588. To RICHARD LEAKE and MATTHEW SYKES, both of Barnsley, in the county of York, for the invention of "Improvements in furnaces for consuming smoke and generating heat, parts of which improvements are applicable to furnaces generally."
On their petition, recorded in the Office of the Commissioners on the 5th day of March, 1859.

616. To JOHN COOKE, of Cheltenham, in the county of Gloucester, for the invention of "Improvements in apparatus for giving signals on railways and vessels, and other such like uses."
On his petition, recorded in the Office of the Commissioners on the 9th day of March, 1859.

662. To HENRY AMBLER, of Halifax, in the county of York, for the invention of "Improvements in breech-loading ordnance, and in the means of producing part or parts thereof, which improvements are also applicable to what are called small arms."
On his petition, recorded in the Office of the Commissioners on the 16th day of March, 1859.

680. To ALEXANDER MEIN, Glass Bottle Maker, at Saint Rollox, Glasgow, in the county of Lanark, for the invention of "Improvements in making glass bottles, and in the apparatus connected therewith."
On his petition, recorded in the Office of the Commissioners on the 17th day of March, 1859.

740. To BENJAMIN BROWNE, of No. 52, King William Street, London Bridge, in the city of London and county of Middlesex, Civil Engineer, and Patent Agent, for the invention of "A new method of working or operating switches and signals on railways by improved apparatus for that purpose."—A communication from abroad by Victor Armand Prou, of Rue de Sèvres, Paris, in the empire of France.
On his petition, recorded in the Office of the Commissioners on the 23rd day of March, 1859.

762. To WILLIAM REDGRAVE, of Tavistock Street, in the county of Middlesex, Tailor, for the invention of "An improved pillow travelling cap."

764. And to SAMUEL DREYFOUS, GUY RICHER, Civil Engineers, and EDOUARD CORMIER, Merchant, all of Paris (France), for the invention of "Improvements in preserving eggs."
On both their petitions, recorded in the Office of the Commissioners on the 26th day of March, 1859.

792. To JOHN WILSON HADWEN, of Kebroyd Mills, in the parish of Halifax, and West Riding of the county of York, Cotton Spinner, for the invention of "A new art or manufacture for converting certain kinds of silk waste into yarns or threads."
On his petition, recorded in the Office of the Commissioners on the 30th day of March, 1859.

806. To THOMAS IVORY, of Edinburgh, Advocate, for the invention of "Improvements in steam boilers and furnaces for the same."
On his petition, recorded in the Office of the Commissioners on the 31st day of March, 1859.

824. To ABRAHAM RIPLEY, of 21, Bridge Street, Blackfriars, London, county of Middlesex, Engineer, and JOHN ROBERTS, of Nelson Square, Bermondsey, county of Surrey, Engineer, for the invention of "Improvements in machinery for striking or scraping leather and tanned or untanned hides."

826. To Anthony Bessemer, of Tavistock Terrace, Upper Holloway, in the county of Middlesex, Gentleman, for the invention of "Improvements in furnaces to be employed in the manufacture of iron and steel."

828. To Joseph Skertchly, of Ashby-de-la-Zouch, in the county of Leicester, Engineer, for the invention of "Improvements in apparatus for regulating the pressure of gas."

830. To Arthur Paget, of Loughborough, in the county of Leicester, Manufacturer, for the invention of "Improvements in machinery or apparatus for the manufacture of looped fabrics, and in the manner of constructing the same."

832. And to Michael Coupland, of Haggerstone, in the county of Middlesex, Engineer, for the invention of "Improvements in furnaces."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of April, 1859.

836. To Joseph Eccles, of Blackburn, in the county of Lancaster, Cotton Manufacturer, for the invention of "Improvements in machinery for making bricks, tiles, and other articles formed of plastic materials."

840. To James Henry Burton, of Enfield Lock, in the county of Middlesex, for the invention of "Improvement in the manufacture of barrels for small fire arms."

842. To Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved construction of retarding apparatus or break for railway carriages." — A communication from abroad by Mr. Augustin Castellir, of Saragossa, in the kingdom of Spain.

844. To Matthew Augustus Crooker, of New York, United States of America, Engineer, for the invention of "Improvements in paddle wheels for steamers."

846. And to Edmund Morewood, of Endfield, in the county of Middlesex, for the invention of "Improvements in coating metals."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of April, 1859.

850. To Edward Fairburn, of Kirklees Mills, Mirfield, in the county of York, Card Manufacturer, for the invention of "Improvements in machinery for carding wool and other fibrous substances."

854. To Benjamin Browne, of No. 52, King William Street, London Bridge, in the city of London, and county of Middlesex, Civil Engineer and Patent Agent, for the invention of "Improvements in propelling ships or other vessels through water."—A communication from abroad by Philip Kearney Skinner, of Bombay, in the East Indies, a Colonel in the Bombay Army.

858. And to Francis Maltby Crichton, of Stoke Abbey, Stoke Bishop, in the parish of Westbury-upon-Frym, in the county of Gloucester, Gentleman, for the invention of "Improvements in clocks or time keepers."

On their several petitions, all recorded in the Office of the Commissioners on the 5th day of April, 1859.

862. To William Owen, of Rotherham, in the county of York, Engineer, for the invention of "Improvements in the manufacture of railway wheels and tyres and in the apparatus employed therein."—Partly a communication from Robert Owen, residing at San Geronimo, Central America.

864. And to John Scoffern, of No. 4, Barnard's Inn, Bachelor of Medecine, for the invention of "Improvements in lubricating projectiles and cartridges."

On both their petitions, recorded in the Office of the Commissioners on the 6th day of April, 1859.

866. To Alexander Chaplin, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in steam boilers."

868. To Robert Wardell, of Stanwick, in the county of York, and Henry Kearsley, of Ripon, in the county of York, for the invention of "Improvements in reaping machines."

870. To John Lakin the younger, of Hall End, near Tamworth, in the county of Warwick, Farmer, for the invention of "A new or improved agricultural drill."

872. And to James Rawlings, of Carlton Hill East, in the county of Middlesex, Gentleman, for the invention of an "Improved construction of boot tree."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of April, 1859.

874. To William Henry Smith, of the city of Philadelphia, in the state of Pennsylvania, one of the United States of America, M.D., for the invention of "Improvements in the construction of of cartridges, and in the fire arms for using the same."

876. To William Campion, of the town and county of the town of Nottingham, Machine Builder, of the firm of W. W. Campion, of the said town, Machine Builders, for the invention of "Improvements in machinery for the manufacture of looped fabrics."

878. To Marc Antoine François Mennons, of the British and Foreign Patent Office, No. 39, Rue de l'Echiquier, Paris, in the Empire of France, for the invention of "An improved articulated joint for water, gas, and steam pipes."—A communication from Victor Doré, a person resident in Paris, France.

880. To Nicolas Alexis Grumel, formerly a Dyer, and at present Ink Manufacturer, in Paris, in the empire of France, for the invention of "Improvements in dying cotton, wool, silk, flax, and other fibrous materials or fabrics."

882. And to William Hooper, of Mitcham, in the county of Surrey, India Rubber Manufacturer, for the invention of "Improvements in re-working or re-manufacturing compounds of india rubber and sulphur."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of April, 1859.

888. To Thomas Barnett, of Oldham, in the county of Lancaster, Henry Turner Sourbuts, and William Loynd, of Hyde, in the county of

Chester, Engineers, for the invention of "Improvements in steam engines."

890. To JOHN HAWKINS, of Lisle Street, London, in the county of Middlesex, and of Walsall, in the county of Stafford, Bit, Spur, and Stirrup Manufacturer, for the invention of "Certain improvements in the manufacture of stirrups, bits, spurs, buckles, and other such like articles connected with harness and saddlery."

892. To RICHARD JONES DERHAM, of No. 46, Redcliffe Street, Bristol, in the county of Somerset, Cooper, for the invention of "Improvements in cheese vats."

894. To CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "A new motive power applicable to tanneries."—A communication from Jean Pascal Lucet, residing at Fontenay-le-Comte, Vendée, in the empire of France.

896. And to HENRY FRANCIS GARDNER, of Boston, in the United States of America, for the invention of "Improvements in machinery for blocking or crimping the uppers of boots and shoes, and in treeing boots."—Partly a communication from abroad by William Willmott and Philander Shaw, of the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of April, 1859.

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904. To ALFRED BOWER, of Liverpool, in the county of Lancaster, Cotton Broker, for the invention of "Improvements in or applicable to the keels of navigable vessels."

906. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in candle moulds."—A communication from Auguste Godchaux, residing at Paris.

908. And to WILLIAM HENRY BARLOW, of Great George Street, Westminster, for the invention of "Improvements in beams and girders."

On their several petitions recorded in the Office of the Commissioners on the 11th day of April, 1859.

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910. To WILLIAM CLARK, of Langhaugh, Galashiels, Scotland, a Lieutenant in Her Majesty's Navy, for the invention of "An improved safety block to be used for lowering ships' boats, the same being applicable to other like or analogous purposes."

912. To PATRICK AITCHISON, Brass Founder, of Sheffield, in the county of York, for the invention of "Improvements in taps."

914. To EUGÈNE THÉODORE NOUALHIER, of Paris, France, Manufacturer, for the invention of "An improved ventilator."

916. To PHILIP HILL, of Manchester, in the county of Lancaster, Weaver, and JOHN MOORE, of Salford, in the same county, Small Ware Manufacturer, for the invention of "Improvements in weaving double pile fabrics."

918. To MATHIEU CASTAY, of Paris, in the empire of France, Clergyman, for the invention of "Improvements in metallic bridges."

920. To JOSEPH WARD, of King's Norton, in the county of Worcester, Machinist, for the invention of "An improvement or improvements in working fly presses used for raising metals, coining, and other like purposes."

922. And to SAMUEL TATTON, of Leek, in the county of Stafford, Silk Dyer, for the invention of "Improvements in preparing and treating silk, and improvements in dyeing silk."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of April, 1859.

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924. To WILLIAM ARENA MARTIN and JAMES PURDIE, of Woolwich, in the county of Kent, Engineers, for the invention of "Improvements in fire bars."

928. To WILLIAM CRAFT, of No. 12, Cambridge Road, Hammersmith, and THOMAS WILSON, of Bradmore House, Chiswick, both in the county of Middlesex, for the invention of "Improvements in the manufacture of pinafores and bibs for children."

932. And to JOHN LEE STEVENS, of No. 1, Fish Street Hill, in the city of London, Civil Engineer, for the invention of "Improvements in the fire grates of locomotive, marine, and other furnaces."

On their several petitions, recorded in the Office of the Commissioners on the 13th day of April, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

935. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, praying for Letters Patent for the invention of "A new cooling apparatus for liquids, especially beer,"—a communication from Jean Louis Baudelot, of No. 10, Rue Mogador, Paris, in the empire of France,—was deposited and recorded in the Office of the Commissioners on the 14th day of April, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And notice is also given, that the petition of

988. ALEXANDER WILLIAM WILLIAMSON, of University College, London, praying for Letters Patent for the invention of "Improvements in making extracts from liquorice root," was deposited and recorded in the Office of the Commissioners on the 19th day of April, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

21st April, 1859.

2389. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A new machine for boring."—A communication from a Foreigner now residing abroad.—Dated 27th October, 1858.

2391. Adolphe Paul Auguste Beau, of 152, Regent Street, London, for an invention of "A pocket stereoscope."—Dated 27th October, 1858.

2392. John Kinsey, of Brighton, Engineer, for an invention of "Improvements in steam engines and pumps."—Dated 27th October, 1858.

2395. George Speight, of 19, Woodbridge Street, Clerkenwell, in the county of Middlesex, Artist in Hair, for an invention of "Improved plaits and curls or ringlets for head dresses or ornaments or additions to the natural hair, and an improved apparatus for the manufacture of curls or ringlets."—Dated 27th October, 1858.

2408. Benjamin Foster, of Denholme, near Bradford, in the county of York, Spinner, and Prince Smith, of Keighley, in the county of York, Machinist, for an invention of "Improvements in machinery or apparatus for spinning and doubling wool, alpaca, mohair, cotton, silk, flax, and other fibrous substances."—Dated 28th October, 1858.

2410. James Smith, of the city of Bristol, Horsehair Seating and Curled-hair Manufacturer, for an invention of "Improved hats and coverings for the head."—Dated 28th October, 1858.

2412. Pierre Brunon, of Paris, France, Manufacturer, for an invention of "An improved mode of manufacturing cocks."—Dated 29th October, 1858.

2413. William Kirrage, of No. 10, Goulston's Buildings, Bermondsey New Road, in the county of Surrey, Surveyor, for an invention of "An improved elastic combination of materials impervious to atmospheric influences, as a substitute for hard woods, metal, leather or felting, and for other purposes."—Dated 29th October, 1858.

2427. Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention of "Improvements in machinery or apparatus to prevent railway accidents."—A communication from Jean Aimé Delormas, jeune, and Amable Gaspard Terrel, both residing at Lyons, in the empire of France."—Dated 30th October, 1858.

2438. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved system of railway brakes."—A communication from Claude Arnoux, residing at Paris.—Dated 2nd November, 1858.

2463. George Palmer Evelyn, of Eccleston Terrace, in the county of Middlesex, Esquire, for an invention of "The improvement of the form of the stocks of rifles, carabines, and other fire arms."—Dated 4th November, 1858.

2478. Simon Davey, Merchant, residing at Rouen, France, for an invention of "Improvements in blasting powder."—Dated 5th November, 1858.

2859. James Webster, of Birmingham, in the county of Warwick, Engineer, for an invention of "A new or improved method of recovering copper and zinc from liquids which have been employed to dip or pickle articles made of brass or other alloys containing copper and zinc."—Dated 14th December, 1858.

2898. Isaac Ketchum, of 59, Canning Street, Liverpool, in the county of Lancaster, Merchant, for an invention of "Improvements in the method of roasting meat, poultry, game, by basting the same, and in the method of manufacturing the necessary apparatus for so doing."—Dated 18th December, 1858.

282. John Hosking, of No. 5, Catherine Terrace, Gateshead-on-Tyne, in the county of Durham, and Thomas Cock, of Cleator Moor, near Whitehaven, in the county of Cumberland, for an invention of "Improvements in furnaces or fire places."—Dated 1st February, 1859.

348. Thomas Moss, of 69, Fleet Street, in the city of London, in the employment of Messrs. Perkins, Bacon, and Co., for an invention of "Improvements in the manufacture of paper and printing ink suitable for bank notes, bills of exchange, and other documents requiring like security against being copied."—Dated 8th February, 1859.

404. Henry Gardner, of 1, Old Quebec Street, Portman Square, in the county of Middlesex, for the invention of "Improvements in machinery for breaking and preparing flax and other fibres."—Dated 12th February, 1859.

481. Joseph Grimond, of the city of Manchester, in the county of Lancaster, Manufacturer, for an invention of "Improvements in the treatment and preparation of jute and other fibrous materials, and in machinery or apparatus employed therein."—Dated 22nd February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 20th April, 1859, inclusive.*)

18th April.

945. William Crosley, of No. 16, Westbourne Park, in the county of Middlesex, and 103, Southwark Bridge Road, in the county of Surrey, Gas Meter Manufacturer, and George Goldsmith, of Leicester, in the county of Leicester, Gas Meter Inspector, for an invention of "Improvements in wet gas meters."—Dated 19th April, 1856.

19th April.

994. Charles Swift and John James Derham, of Blackburn, in the county of Lancaster, Engineers, for an invention of "Improvements in steam-engines."—Dated 25th April, 1856.

20th April.

953. William Maugham, of Ifield Terrace, Stockwell, in the county of Surrey, for an invention of "An improvement in the preparation or manufacture of starch."—Dated 21st April, 1856.

958. Alexander Symons, of George Street, Mansion House, in the city of London, and Edward Burgess, of Clerkenwell Green, in the county of Middlesex, for an invention of "Improvements in apparatus for producing alarums to indicate burglary, by means of electricity."—Dated 22nd April, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

19th April, 1859.

452. John Carnaby, of No. 130, St. John Street, Clerkenwell, in the county of Middlesex, Gentleman, for an invention of "Apparatus for turning, managing, and regulating the main taps of gas-pipes laid on to houses or buildings at a part of the house or building distant from the main tap."—Dated 20th October, 1852.

A List of the Patents for Inventions which have become Void by reason of the Nonpayment of the additional Stamp Duty of £50 before the expiration of the Third Year from the date of such Patents, pursuant to the Act of the 16th Vict. c. 5, sec. 2,—for the Quarter ending the 31st day of March, 1859.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1	1st Jan. 1856.	Henry Truelove, of Liverpool, in the county of Lancaster, Teacher.	Improvements in gloves.
2	„	Ferdinand Swift, of Brompton Row, Brompton, in the county of Middlesex, Gentleman.	Improvements in carriage wheels and axles, and in vehicles for common roads.
8	2nd Jan. 1856.	Andrew Shanks, Engineer, 6, Robert Street, Adelphi, Westminster.	Certain improvements in machinery for cutting screws.
10	„	Richard Albert Tilghman, of Philadelphia, United States of America.	Improvements in the manufacture of iron.
11	„	George Hamilton, of Great Tower Street, in the city of London, Gentleman.	Improvements in apparatus for weighing.
12	„	Harvey Lewis Sellers, of Cincinnati, in the state of Ohio, in the United States of America, Doctor of Medicine, and John Littler Talbott, of the same place, Gentleman.	Improved apparatus for measuring and weighing grain seeds and other substances.
14	3rd Jan. 1856.	Frederick Haines, Patent Agent, of 22, Lime Street, City, in the county of Middlesex, London.	The deadening of the sound, and the prevention of vibration and concussion, in connection with machinery, gun and mortar boats, and general ordnance and other purposes.
15	„	Charles Toye, of Gloucester Street, Queen Square, Bloomsbury, in the county of Middlesex, Mechanic.	Improvements in weaving terry fabrics.
16	„	George Williams, of No. 16, Cannon Street East, in the county of Middlesex, Plumber.	Improvements in the construction of waterclosets for ships.
18	„	William Alfred Distin, of No. 31, Cranbourn Street, Leicester Square, in the county of Middlesex.	Improvements in pipes for smoking.
19	„	James Bagster Lyall, of Castle Frome, in the county of Hereford, Gentleman.	Certain improvements in carriages.
22	„	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in apparatus or means for facilitating the performance of church and other music on organs, harmoniums, pianos, and other similar keyed musical instruments.
26	„	James Frederick Lackersteen, of 7, Young Street, Kensington Square.	Improvements in the prevention of collisions on railways.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
28	3rd Jan. 1856.	CHARLES MARSDEN, of Kingsland Road, in the county of Middlesex, Ventilating Engineer.	Improvements in the ventilation of sewers, tunnels, mines, and other confined places.
30	4th Jan. 1856.	HENRY BACH, of Sheffield, in the county of York, Hoiser.	Improvements in the application of glass to decorative purposes.
32	„	WILLIAM SIMMONS, of Oldham, in the county of Lancaster, Hat Manufacturer.	An improved hat body.
33	„	ROBERT GREY, of No. 21, Ridley Place, Newcastle-on-Tyne, Builder and Brick Maker.	Improvements in machinery or apparatus for moulding bricks, tiles, and other similar articles.
37	„	JOSEPH WRIGHT, of Burton-upon-Trent, in the county of Stafford, Engineer and Iron Founder.	Improvements in furnaces and fire-bars.
38	„	GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	Improvements in the manufacture of jacquard piled or terry fabrics, when parti-coloured yarns are used.
39	„	JOSEPH BETTELEY, of Liverpool, in the county of Lancaster, Chain Cable Manufacturer.	An improvement in the rolling of iron for the making of ships' knees.
40	„	FRANCIS WILLIAM GERISH, of East Road, City Road.	An improvement in the manufacture of cast hinges.
41	„	ROBERT SAM NORTH, of Derby, in the county of Derby, Engineer, and RALPH PEACOCK, of New Holland, in the county of Lincoln, Engineer.	Improvements in metallic packings for pistons.
42	„	WILLIAM OLIVER JOHNSTON, of Broomhill Colliery, Acklington, Northumberland, Engineer.	An improvement in apparatus used for giving notice when the water in a steam boiler is too low.
48	5th Jan. 1856.	JOSEPH CORBETT, of Brierley Hill, in the county of Stafford, Engineer.	A new or improved method of preserving the tuyeres of blast furnaces.
52	7th Jan. 1856.	CHARLES JARVIS, of Birmingham, in the county of Warwick, Ironfounder, and THOMAS DEYKIN CLARE, of Birmingham aforesaid, Mineral Merchant.	A new or improved oven or kiln to be used in the manufacture of coke and pottery, and for heating and drying generally.
56	„	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved mode of manufacturing rods, shafts, and tubes of iron and steel.
61	8th Jan. 1856.	EDWIN THOMAS TRUMAN, of Old Burlington Street, in the county of Middlesex, Dentist, in Ordinary to Her Majesty's Household.	Improvements in artificial palates and teeth.
62	„	HENRY STUART, of Liverpool, in the county of Lancaster, and THOMAS PRITCHARD, of Runcorn, in the county of Chester, Watchmakers.	Improvements in watches and chronometers, which improvements are also applicable to clocks and other timepieces.
63	„	PETER ARMAND LE COMTE DE FONTAINEMOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the empire of France.	Certain improvements in jacquard machines.
64	„	SAMUEL MIDDLETON, of St. George's Row, Southwark.	An improvement in the leather covered rollers used in spinning machinery.
66	9th Jan. 1856.	GEORGE JOHN CHRISTIAN ERHARD HALD, of the city of Manchester, Merchant.	Improvements in the construction of stoves.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
67	9th Jan. 1856.	Frederick Albert Gatty, of Accrington, in the county of Lancaster, Manufacturing Chemist.	Improvements in the manufacture of lake colours.
69	„	William Barrie, of Maida Hill, London, in the county of Middlesex, Commander, R.N.	An improved reflective leveller.
70	„	Edward Hallen, of Cornwall Road, Lambeth, in the county of Surrey, Civil Engineer, and William Holland Kingston, of Bandon, in the county of Cork, Ireland, A.B.F.C., Dublin.	Improvements in communicating between the guards and engine drivers, and between the passengers, guards, and engine drivers of railway trains.
79	10th Jan. 1856.	John Erskine, of Glasgow, in the county of Lanark, North Britain, Merchant.	The application of a new material or mixture for dressing or sizing textile fabrics or materials.
80	„	Jane Ann Herbert, of No. 5, Waterden Place, Guildford, in the county of Surrey, Widow.	An improved method for extracting the dirt or the gum or the colouring matter or the principle from various vegetable or animal substances or materials.
85	11th Jan. 1856.	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	A new and improved method of curing meats, preserving provisions, and ventilating and cooling buildings, cars, and vessels.
89	12th Jan. 1856.	Alexander Bain, of Westbourne Park Road, Paddington, in the county of Middlesex, Mechanical Engineer.	Improvements in the construction of inkstands.
90	„	Emile Constantin Fritz Sautelet, Chemist, of Paris, in the French empire.	An improved process of tanning.
91	„	Charles François Leopold Oudry, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Gentleman.	Certain improvements in the preservation of metals and other solid substances.
96	14th Jan. 1856.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, in the county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Certain improvements in balanced slide valves for steam engines.
97	„	William Collett Homersham, of Caroline Villas, Kentish Town, in the county of Middlesex, Engineer.	Improvements in machinery for the preparation of hemp, flax, and other fibrous materials.
99	„	Adolf Pollak, of the firm of A. M. Pollak, of Vienna, in the empire of Austria.	Treating waste oily matters to obtain a product applicable to the manufacture of soap and other useful purposes in the arts.
101	„	Nathaniel Shattswell Dodge, of the firm of Dodge, Bacon and Co., of 44, St. Paul's Churchyard, in the city of London, Merchants and Manufacturers.	Improvements in the preparation or manufacture of leather cloth.
102	„	Austen Chambers, of Canterbury, and William Harrison Champion, of Lynsted, Kent.	An improved mode of working railway breaks.
103	„	John Gottlieb Ulrich, of 63, Mark Lane, in the city of London.	Improvements in chronometers and other time-keepers.
104	„	Anne Emilie Malteste, of Paris (France), Milliner.	Improvements in shirts.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
107	15th Jan. 1856.	Pierre Théophile Auguste Nicoulland, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Gentleman.	Improvements in steam-boiler furnaces.
109	,,	Samuel Sheppard, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved tap or stop cock.
111	16th Jan. 1856.	Thomas Dunn, of the Windsor Bridge Iron Works, Pendleton, in the county of Lancaster, Engineer.	Improvements in boilers and apparatus for heating water and generating steam.
112	,,	Henry McEvoy, of Hall Street Works, Birmingham, in the county of Warwick.	Improvements in locks, latches, and staples.
113	,,	Henry Law, Civil Engineer, of No. 15, Essex Street, Strand, in the county of Middlesex.	Improvements in heaving up slips for the repair or construction of ships or other vessels, and for a continuous action purchase for the same, which is also applicable to other purposes.
118	,,	Johnson Thompson, of Sunderland, Builder.	Improvements in ships' keelsons.
119	,,	John Hamilton, junior, of Liverpool -	Improvements in constructing the permanent ways of railways.
121	,,	David Dring, of 149, Great Dover Road, in the county of Surrey.	Improvements in machinery for cutting wood pegs.
123	17th Jan. 1856.	Peter Armand le Comte de Fontaine-Moreau, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the empire of France.	An improved apparatus for the prevention of accidents or collisions on railways.
125	,,	Philipp Rechten, of Bremen - -	The taking of whales and other cetaceous fish, by means of a harpoon constructed on entire new principles.
129	,,	William Chapman, of Sunderland -	An improvement in propelling vessels.
130	,,	Joseph Jesse Comstock, of New York, in the United States, but now at Liverpool, county of Lancaster.	Improvements in generating steam.
131	,,	John Platt, of Oldham, in the county of Lancaster, Mechanical Engineer, and John Whitaker, of the same place, Doubler.	Improvements in machinery or apparatus for doubling or twining yarns or threads, parts of which improvements are also applicable to mules for spinning.
132	,,	William Westbrooke Squires, of Liverpool, in the county of Lancaster, Doctor in Medicine.	Improvements in preventing the bursting of pipes and tubes for conveying liquids.
133	18th Jan. 1856.	Giuseppe Antonio Tremeschini, of Vicence (Lombardo-Venetian), Mechanician.	Improvements in electro-telegraphic communications.
135	,,	Miguel De Berque, of Barcelona, in the kingdom of Spain, Engineer.	Improvements in the permanent way of railways.
141	,,	Nathaniel Shattswell Dodge, of St. Paul's Churchyard, in the city of London, of the firm of Dodge, Bacon, and Company, Merchants and Manufacturers.	Improvements in treating vulcanized india-rubber or gutta-percha.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
148	19th Jan. 1856.	Alfred Dawson, of 14, Barnes Place, Mile End Road, in the parish of St. Dunstan's, Stepney, in the county of Middlesex, Engineer.	An apparatus for converting small coals or coal dust, or small coals and coke, or coal dust and coke, with the admixture of water or other materials into solid blocks of fuel, parts of which apparatus can be used and are suited for other purposes.
149	„	Edward Pickering, of Chatham Place, Blackfriars, in the county of Middlesex, Railway Contractor.	Improvements in the permanent way of railways.
151	„	Isaac Barnes, of Birmingham, in the county of Warwick, Manufacturer.	Improvements in carriage lamps.
155	„	Charles Robertson, of 68, Mark Lane, Shipmaster.	Improvements in mariners' compasses.
157	21st Jan. 1856.	John Coope Haddan, of Cannon Row, in the city of Westminster, Civil Engineer.	Improvements in omnibuses and other similar carriages.
159	„	James Pockson, of Penton Street, Walworth, county of Surrey, Carpenter.	Improvements in the construction of roofing and other tiles.
161	„	Gustav Adolph Blittkowski, of the city of New York, United States of America.	Improvements in repeating fire-arms.
169	22nd Jan. 1856.	Edward Lawson, of Leeds, in the county of York, Machine Maker, and George Jennings, of Hunslet, in the parish of Leeds, aforesaid, Mechanic.	Improvements in reeling-machines for winding flax, cotton, wool, and other yarns.
170	„	Dundas Smith Porteous, of Paisley, in the county of Renfrew, in Scotland.	A rotatory engine.
173	„	Henry Elliott Hoole, of Green Lane Works, Sheffield, in the county of York, Stove Grate and Fender Manufacturer.	Improvements in stove grates.
176	23rd Jan. 1856.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	An improved manufacture of yarn from wool or other felting material.
177	„	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	An improved lock joint for the rails of railways.
183	„	Isaac Barnes, of Birmingham, in the county of Warwick, Manufacturer.	Improvements in the manufacture of knobs and furniture for doors, drawers, and other similar purposes, parts of which improvements are also applicable to the manufacture of cornice poles and other like articles.
185	„	Stephen Norris, of New Peter Street, Westminster, in the county of Middlesex.	Improvements in the manufacture of boots and shoes, and other coverings for the human feet.
189	24th Jan. 1856.	Charles Rothwell, of the firm of Taylor, Lang, and Co., Castle Iron Works, Staleybridge, in the county of Chester.	Improvements in self-acting mules.
190	„	John Strafford, Lamp Maker, of Stratford, in the county of Essex.	Certain improvements in portable signal lamps for railway, marine, and other purposes.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
191	24th Jan. 1856.	JOHN GIMSON, of Staleybridge, in the county of Lancaster, Engineer, and GEORGE GIMSON, of the same place, Engineer.	An improved apparatus applicable to steam pipes used for the purposes of heating and drying, which said apparatus may also be used for other similar purposes where steam is employed.
194	„	DAVID FISHER, of No. 12, Ranelagh Road, Thames Bank, Middlesex.	Improvements in machinery for pressing, cutting, drying, and opening tobacco.
196	25th Jan. 1856.	ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	An improved machine for boring and other cutting operations in stone and other mineral substances of similar character.
198	„	ANDREW SHANKS, Engineer, 6, Robert Street, Adelphi, Westminster, and FRANCIS HERBERT WENHAM, Engineer, Effra Vale Lodge, Brixton, Surrey.	Certain improvements in water gauges.
200	„	JOHN KERSHAW, of Stockport, in the county of Chester, Manager.	Improvements in apparatus for preventing the explosion of steam boilers.
204	„	ALEXANDER DALGETY, of 76, Florence Road, Deptford, in the county of Kent, Engineer.	Improvements in vices or gripping or holding apparatus.
205	„	GENTLE BROWN, of Swinton, near Rotherham, in the county of York, Gentleman.	An improvement in the manufacture of cast steel.
206	„	WILLIAM OWEN, of the firm of Owen Stodart and Company, of Red Lion Square, in the county of Middlesex, Piano-forte Nanufacturers.	An improvement in piano-fortes.
207	„	ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the empire of France, and of 43, Southampton Buildings, Chancery Lane, in the county of Middlesex.	Improvements in oil lamps, and in reflectors for the same for railway carriages and other purposes.
209	„	ALEXANDER DALGETY, of 76, Florence Road, Deptford, in the county of Kent, Engineer.	An improved self-acting stand or tilt for casks or barrels.
210	26th Jan. 1856.	GEORGE NAPIER, of Bath Street, Glasgow, in the county of Lanark, and of the Adelphi, in the county of Middlesex, Engineer.	Improvements in the construction and arrangement of the flues, air passages, and other parts of furnaces, and also in controlling the passage of smoke, and in heating and regulating the supply of air to facilitate combustion.
212	„	EDWARD VINCENT GARDNER, of 24, Norfolk Street, Middlesex Hospital, in the county of Middlesex.	Improvements in heating, drying, desiccating, and evaporating.
213	„	PATRICK DORAN, residing at No. 10, Cornwallis Street, in the town of Liverpool, in the county of Lancaster.	Improvements in pneumatic apparatus for raising sunken vessels or otner bodies under water, and for keeping afloat vessels or other bodies liable to sink.
214	„	JEAN LOUIS AMBROISE HUILLARD, of Paris, Manufacturing Chemist.	Improvements in the processes of singeing and dressing textile fabrics, and in apparatus for the same.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
215	26th Jan. 1856.	William Spurrier, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved method of attaching handles to metallic teapots and other vessels, which method of attachment may also be applied to the fixing of castors on furniture and other like purposes.
216	„	Samuel Statham, of Islington, in the county of Middlesex, Gentleman.	Improvements in electric telegraph conductors.
217	„	Wilhelm Dreschfeld, of Manchester, in the county of Lancaster, Clerk.	An improvement in or addition to rollers employed in spinning.
225	28th Jan. 1856.	Jean Baptiste Jules Hyppolite d'Auvergne, of Blois, in the empire of France, Gentleman.	Improvements in portable writing or drawing desks.
226	„	Pierre Samain, of Meusnes (Loire-et-Cher), in the empire of France, Lock Maker.	Improvements in table stools and other pieces of household furniture.
228	„	Robert Barrow, of 32, Garford Street, Poplar, in the county of Middlesex, Engineer.	An equilibrium slide valve for steam engines.
230	„	William Asbury, of Birmingham, in the county of Warwick, Engineer.	A new or improved tap or stopcock.
231	„	Jean Hector Destibeaux, Manufacturer, of Paris, in the French empire.	An improved waterproof fabric.
232	„	John Whitehead, of Leeds, in the county of York, Machine Maker.	Improved machinery for fulling cloth.
233	„	Henry Samuel King, of the firm of Smith, Elder, and Company, of Cornhill, in the city of London, Stationers.	Improved apparatus for printing and embossing.
237	29th Jan. 1856.	William Henry Lancaster and James Smith, both of Liverpool, in the county of Lancaster.	Improved arrangements for the application of gas and atmospheric air to the generation of heat in furnace or other flues, and the consumption of smoke.
242	„	Henry Chance, of Birmingham, Glass Manufacturer.	An improvement in the manufacture of moulded articles when using vitreous materials.
243	„	Samuel Palmer Gladstone, of Lea Cottage, Orchard House, Poplar.	Improvements in the construction of masts and yards.
244	„	Joseph Fowell Walton, of Sarratt Hall, Rickmansworth, Herts, and Honore le François, of Lambeth, in the county of Surrey.	Improvements in cleaning forks, spoons, stew-pans, and other culinary utensils.
245	„	Abraham Pope, of Edgware Road, in the county of Middlesex, Engineer.	Improvements in the manufacture of iron, copper, tin, and lead.
247	30th Jan. 1856.	Robert Walter Wingfield, of Birmingham, in the county of Warwick, Merchant and Manufacturer.	An improvement or improvements in the manufacture of metallic bedsteads and other articles of metallic furniture.
257	31st Jan. 1856.	Henry Holford, of Newton Iron Works, Hyde, in the county of Chester, Engineer, and Mark Mason, of the same place, Machine Maker.	Improvements in machinery or apparatus for compressing metals, and for manufacturing all kinds of metallic rivets, bolts, or similar articles.
259	„	James Mash, of the city of Manchester, in the county of Lancashire, Engineer.	Improvements in working the valves of steam engines.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
264	31st Jan. 1856.	Thomas Burdett Turton and John Root, both of the Sheaf and Spring Works, Sheffield, in the county of York.	Improvements in buffer bearing and draw springs.
267	„	George Hallen Cottam and Henry Richard Cottam, of Old St. Pancras Road.	Improvements in folding bedsteads and chairs.
270	„	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in gas-burners and in regulating the combustion of gas.
272	1st Feb. 1856.	Matthew Ker, of No. 8, Cumberland Market, in the parish of St. Pancras, in the county of Middlesex.	A machine for sweeping carpeted and other floors.
274	„	Francis Preston, of the city of Manchester, Machinist.	Improvements in machinery for shaping and rolling metal.
275	„	George Holcroft, Joseph Smith, and Thomas Holcroft, all of the city of Manchester, Engineers.	Improvements in machinery for preparing, spinning, and doubling cotton and other fibrous materials.
276	„	Charles Robert Moate, of No. 65, Old Broad Street, in the city of London, Metal Broker.	An improvement in securing and sustaining the rails of railways.
277	„	Peter Armand le Comte de Fontainemoreau, of 39, Rue de l'Echiquier, Paris, and of No. 4, South Street, Finsbury, London, Patent Agent.	Certain improvements in the saponification of fatty matters.
280	„	Francis Best Fawcett, of Kidderminster, in the county of Worcester, Carpet Manufacturer.	Improvements in the manufacture of carpets.
281	„	Henry Bestwick, of Manchester, in the county of Lancaster, Brass Founder, and Joseph Bury, of the same place, Brass Founder.	Certain improvements in cocks, taps, or valves.
282	„	George Norgate Hooper and William Hooper, of the Haymarket, in the county of Middlesex, Carriage Builders.	Improvements in springs for carriages, and for the cushions of carriages, chairs, mattrasses, beds and other similar articles.
283	„	James Timmins Chance, of Birmingham.	Improvements in furnaces used for flattening glass.
286	„	Charles Catherine Joubert, of Rue de Moscow, and Leon Andre Bordier, of Rue de la Ferme des Mathurins, both in Paris, in the empire of France.	Improvements in motive power engines.
288	„	John O'Meara, Beamish, of Trafalgar Road, Old Kent Road, Gentleman.	An improvement in the manufacture of Morocco leather.
289	2nd Feb. 1856.	James Townsend Ward, of Swansea, in the county of Glamorgan, Manufacturer.	A new or improved omnibus.
290	„	John Rock Day, of Birmingham, in the county of Warwick, Machinist.	A new or improved door lock and latch.
292	„	Benjamin Burleigh, of the Great Northern Railway, King's Cross.	Improvements in certain parts of the permanent way of railways.
294	„	William Goodman, of 3, Canning Place, Leicester.	Improvements in machinery for producing knit or looped fabrics.

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295	4th Feb. 1856.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Certain improvements in machinery for picking, carding, and combing fibrous substances.
297	,,	Rudolph Bodmer, of 2, Thavies Inn, Holborn, in the city of London.	An improved lubricating oil.
298	,,	Ralph Waller, of the city of Manchester, Manufacturer,	Improvements in machinery for preparing cotton and other fibrous materials.
301	,,	Edwin Clark, of 24, Great George Street, Westminster.	An improvement in the apparatus for suspending insulated electric telegraph wires.
304	,,	Nathan Ager, of Upper Ebury Street, Pimlico, in the county of Middlesex, Carpenter.	Improvements in connecting spindles of locks and latches with their knobs and handles.
307	5th Feb. 1856.	George Cumins Thomas, of Washington City, United States, but now of 67, Gracechurch Street, London.	An improved method of hardening and tempering steel.
309	,,	Thomas Hinchliffe, of Mill Bridge, in Liversedge, in the parish of Birstall, in the West Riding of the county of York, Engineer.	Certain improvements in machinery or apparatus for "drawing" and "spinning" wool or other fibrous substances, or wool mixed with other fibrous substances.
311	,,	Theodore Bergner, of the firm of Howson and Bergner, of Philadelphia, in the United States of America, and of No. 19, Arundel Street, Strand, London.	Embossing veneers so as to represent carvings in wood.
312	,,	Francis Montgomery Jennings, of the city of Cork, Manufacturing Chemist.	Improvements in bleaching vegetable fibres.
314	,,	Alexander McDougall, of Manchester, in the county of Lancaster, Manufacturing Chemist.	Improvements in treating bones, other animal matters, and other substances containing phosphates for the purpose of obtaining manure and other products.
318	6th Feb. 1856.	George Napier, of Bath Street, Glasgow, in the county of Lanark, and of the Adelphi, in the county of Middlesex, and John Miller, of Cavendish Street, Glasgow, in the county of Lanark.	Improvements in the mode of driving, and in applying screw propellers to the propulsion of vessels.
321	,,	John Fletcher, of Salford, in the county of Lancaster, Ironfounder, and William Fletcher, of the same place, Millwright.	Improvements in the construction of weighing cranes and other similar elevating machines.
322	,,	John Inshaw, of Birmingham, in the county of Warwick, Engineer.	A new or improved pressure gauge.
325	,,	Thomas Frederick Tyerman, of Weymouth Street, Portland Place, in the county of Middlesex, Architect and Surveyor.	Improvements in apparatus to be applied to omnibuses and other carriages for receiving wet umbrellas.
326	,,	Franklin Prestage, of Wylye, Heytesbury, in the county of Wilts.	Improvements in locomotive engines.
328	,,	Charles Frederick Philipp Funcke, of Herdecke, Westphalia, Tanner and Currier.	Improvements in tanning skins and hides.
329	,,	James Meacock, of Snow Hill, in the city of London, Gas Meter Maker.	An improved means of fixing diaphragms in gas meters.

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332	7th Feb. 1856.	WILLIAM KENWORTHY, of Blackburn, in the county of Lancaster, Manufacturer.	Certain improvements in self-acting mules.
333	„	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	A method of obtaining alcohol from the fruit or pod of the carob tree.
337	8th Feb. 1856.	THOMAS RESTELL, of New Kent Road, in the county of Surrey, Chronometer Maker.	Improvements in breech-loading and revolving fire-arms, and in cartridges.
340	„	CHARLES WALKER, of Glasgow, in the county of Lanark, North Britain, Engineer.	Improvements in safety valves, and in apparatus for cleansing or purifying water in steam boilers.
342	9th Feb. 1856.	CHARLES SWAN and GEORGE FREDERICK SWAN, of 49, High Street, in the borough of Southwark, Ink Manufacturers.	An improved colouring matter for writing, staining, or dyeing, which is also applicable to the production of a copying fluid.
350	„	LOUIS SCHWARTZKOPFF, of Berlin.	Improvements in apparatus for raising mud and soil from the bottoms of rivers and other waters.
352	11th Feb. 1856.	CHRISTOPHER MURATORI, of Paris, Doctor of Physics.	Improvements in the waterproofing of hangings or ornamental stuffs.
353	„	WILLIAM HENRY ZAHN, of New York, in the United States of America, but now residing in London, and JOSEPH HENRY GEORGE WELLS, of 3, Ebenezer Place, Neckinger Road, Bermondsey, Surrey, Mechanical Engineer and Draughtsman.	Improvements in windmills or wind engines.
355	„	THOMAS STEVEN, of the Milton Foundry, Glasgow, in the kingdom of Scotland, Ironfounder.	Improvements in the construction of open and close stoves, which improvements are applicable in part to kitchen ranges and boiler fireplaces.
361	13th Feb. 1856.	FREDERICK STEINER, of Accrington, in the county of Lancaster, Turkey Red Dyer.	Improvements in machinery to be used in drying fabrics.
362	„	PIERRE ISIDOR DAVID, of Paris, in the empire of France, Machinist.	Certain improvements in the method of bleaching.
364	„	LOUIS VIGNAT, of the firm of Vignat frères, of No. 3, Place des Victoires, in the city of Paris, Merchant.	A regulator-compensator for the weaving of ribbons and cloths.
365	„	WILLIAM FREDERICK COLLARD MOUTRIE, of 4, King Street, Holborn.	An improvement in the damper action of pianofortes.
367	„	RICHARD KNIGHT, of Foster Lane, in the city of London.	Improvements in medical chests.
368	„	WILLIAM GILCHRIST, of Kirkintilloch, in the county of Dumbarton, North Britain, Manufacturer.	Improvements in ornamental weaving.
369	„	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in the manufacture of zinc.
370	„	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in the construction of fire arms.

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371	13th Feb. 1856.	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in springs applicable to railroad carriages, and to other uses.
372	„	Henry Fort Mitchell and William Mitchell, Whitesmiths, and John Clarkson, Coal Merchant, of Silsden, near Keighley, in the county of York.	Improvements in sewing machines.
374	„	Gustave Louis Keller, of Paris, in the empire of France, Pocket Book Maker and Manufacturer.	A new kind or system of carpet or travelling bag.
376	14th Feb. 1856.	Thomas Parkinson Capp, of the American and European Patent Offices, 67, Gracechurch Street, London.	An improved lamp.
378	„	Henry Robert Ramsbotham and William Brown, of Bradford, in the county of York, Wool Comber.	Improvements in combing wool, alpaca, cotton, and other fibrous substances.
379	„	Stephen Rossin Parkhurst, of the city, county, and state of New York, United States of America.	Improvements in sails and rigging for vessels.
383	„	John Taylor, of Spring Grove, Hounslow, in the county of Middlesex.	An improvement in constructing and facing walls.
384	„	William Hamond Bartholomew, of 15, Brunswick Terrace, Leeds.	Improvements in propelling vessels when screws or submerged propellers are used.
386	„	William Watson Hewitson, of Headingley, near Leeds.	An improvement in casting the bearings or brasses of machinery.
387	„	Thomas Evans Blackwell, of Clifton, near Bristol, Gentleman.	Improvements in condensing steam, and in cooling and heating fluids.
388	„	Charles Cowper, of 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent.	Certain improvements in impregnating wood with preservative and colouring materials, and in apparatus for that purpose.
389	„	George Gulliver and John Goldthorpe, of Barnsley, in the county of York, Ironmonger, &c.	An improved signal bell.
392	15th Feb. 1856.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	A machine for cutting articles of polygonal figure in wood or other material.
393	„	Edmund Leach, James Leach, and Edmund Leach the younger, all of Rochdale, in the county of Lancaster, Machine Makers.	Improvements in machinery or apparatus for preparing, spinning, and drying yarns, and manufacturing the same into cloth.
394	„	James Hogg, junior, Publisher, of No. 4, Nicolson Street, Edinburgh, in the county of Edinburgh.	Improvements in the manufacture of envelopes, and certain other combinations and applications of paper and gum denominated "letter checks," for containing and securing written, printed, or other communications.
396	„	Eddlestone Elliott, Woollen Manufacturer, Cyrus Leach, Blacksmith, and James Ratcliffe, Spinner, all of Ridings, in the parish of Rochdale, in the county of Lancaster.	Improvements in machinery for spinning wool and other fibrous substances.

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397	15th Feb. 1856.	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in fountain pens.
398	„	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for making boots and shoes.
402	16th Feb. 185 .	GEORGE HARRISON, of 4, Little Goodwin Street, Hull, in the county of York.	Improvements in axles for railway carriages.
404	18th Feb. 1856.	WILLIAM WILLCOCKS SLEIGH, of London, in the county of Middlesex, Physician and Surgeon.	Producing motive-power which he entitles "the hydrostatic motive power engine."
406	„	JAMES STRANG THOMSON, of Kilmarnock, in the county of Ayr, North Britain, Manufacturer, and ANDREW BARCLAY, of the same place, Engineer.	Improvements in printing and embossing textile fabrics and other surfaces, and in the production of apparatus to be employed therein.
407	„	HENRY HODGKINSON, of Donegall Street Place, Belfast, in the county of Antrim.	Improved machinery or apparatus for bleaching cotton, linen, and other woven or textile fabrics.
413	19th Feb. 1856.	SYLVESTER EMIL SICHEL, of Bradford, in the county of York, Merchant.	Certain improvements in apparatus for weaving "ribbed" cloth and bands of "chenille."
414	„	FREDERICK AUSTIN SPALDING WITTER, of Manchester, in the county of Lancaster, Agent.	An improved stove.
415	„	WILLIAM HENRY BOWERS, of No. 4, Singleton Street, South East Road, in the county of Middlesex.	Improvements in the construction of railways.
423	20th Feb. 1856.	WILLIAM ARISTIDES VÉREL, of Macduff, in the county of Banff, Merchant.	Improvements in grinding or pulverizing hoofs and horns, and in using them alone or mixed with pulverized bones for manure.
424	„	RICHARD LAMING, of Carlton Villas, Maida Vale, Paddington, in the county of Middlesex.	Improvements in purifying gas, in preparing materials useful for purifying gas, and in apparatus to be used in purifying gas and disinfecting gas, liquors, or washings.
425	„	THOMAS SMITH and JOSEPH GILL, of Hebden Bridge, in the county of York, Manufacturers.	Improvements in the mode or method of casing horizontal shafting.
427	„	JAMES KNOWLES, of Eagley Bank, near Bolton-le-Moors, in the county of Lancaster, Coal Proprietor.	Improvements in the construction of metallic pistons.
428	„	WILLIAM LYNN, of Her Majesty's Dockyard, Portsmouth, Assistant Inspector of Machinery.	Improvements in the construction and mode of applying screws for propelling vessels.
435	„	JEREMIAH CLARK, of 13, Moorgate Street, in the city of London, Stationer, and JAMES AUSTIN, of the same place, Stationer's Assistant.	Improvements in apparatus for stoppering or closing bottles, jars, and other similar vessels.
436	„	DAVID AULD, of the city of Glasgow, in the county of Lanark, North Britain, Engineer, and JOHN STEPHEN, of the same place, Mill Manager.	Improvements in steam boilers and furnaces, and in apparatus connected therewith, and in the consumption or prevention of smoke.

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439	20th Feb. 1856.	William Oliver Johnston, of Broomhill Colliery, Acklington, Northumberland, Engineer, and John Dixon, of High Bridge Works, Newcastle-upon-Tyne, Engineer.	Improvements in cutting and working coal.
447	21st Feb. 1856.	James Durell Greene, of Craven Street, in the city of Westminster, Gentleman.	An improvement in breech loading fire-arms.
448	„	William Clarke, of Nottingham, Manufacturer.	Improvements in the manufacture of warp fabrics.
453	22nd Feb. 1856.	Frederick William Mowbray, of Saltaire, near Bradford, in the county of York, Gentleman.	Improvements in machinery or apparatus employed in spinning and doubling.
454	„	John Kingsford Field, of Lambeth, in the county of Surrey, Wax Chandler, and Charles Humfrey, of No. 14, the Terrace, Camberwell, in the said county of Surrey, Gentleman.	Improvements in the manufacture of paraffine candles.
455	„	William Vincent Wallace, of Great Portland Street, in the county of Middlesex, Gentleman, and Benjamin Lawrence Sowell, of Harrow Road, in the same county, Gentleman.	Improvements in treating tobacco in order to manufacture cigars and other articles for smoking together with the manufacture of cigars and cheroots from tobacco so treated.
456	„	James Griffiths, of Wolverhampton, in the county of Stafford, Engineer.	A new or improved break for colliery and other steam engines.
457	„	Leonard Bower, of Birmingham, in the county of Warwick, Manufacturer.	New or improved machinery for the manufacture of screws.
458	„	William Strang, of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in ornamental weaving.
459	„	Georges Toucas, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Metallurgist.	A new metallic alloy.
462	23rd Feb. 1856.	James Edward Boyd, of Hither Green, Lewisham, in the county of Kent, Gentleman.	Improvements in scythes.
464	„	George Holme Spencer, of Heathersage (near Sheffield), in the county of Derby, Manufacturer.	Improvements in the manufacture of card surfaces employed in carding cotton and wool.
471	„	William Sangster, of 75, Cheapside, in the county of Middlesex.	An improvement in the manufacture of umbrellas and parasols.
472	„	Samuel Rogers Samuels, of Nottingham.	Improvements in weaving fabrics.
473	„	Charles Brook the younger, of Meltham Mills, near Huddersfield, in the county of York, Cotton Spinner, and Joseph Hirst, of Wilshaw, near Huddersfield aforesaid, Woollen Cloth Manufacturer.	An improvement in finishing yarns of wool or hair, and in the finishing of woven fabrics or piece goods.
474	25th Feb. 1856.	Louis Normandy, of 67, Judd Street, Brunswick Square, in the county of Middlesex, Civil Engineer.	Improvements in the mode of constructing and fixing the rails of railways.

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475	25th Feb. 1856.	Bennett Johns Heywood, of the city of Dublin, Gentleman.	An improved holder for leads, slate, and other marking materials, applicable also as a case for other articles.
476	„	Frederick Kersey, of 5, Laurie Terrace, Saint George's Road, Southwark.	An improvement in the manufacture of drain pipes.
478	„	Robert Hawthorn and William Hawthorn, both of the town and county of Newcastle-upon-Tyne, Engineers.	An improved arrangement of steam pump.
480	„	Charles Frederick Claus, of Latchford, in the county of Chester, Chemist.	Improvements in metal ship building, applicable also to steam boilers, bridges and other structures in which metal plates are used.
481	„	Louis Arnier, of Marseilles, in the empire of France.	Improvements in condensing hot air and obtaining motive power therefrom.
482	„	Charles Damas Auguste Joseph Planque, Merchant, of Pont St. Maxence, France.	Improvements in the manufacture of fecula.
484	„	Edward Slaughter, of the Avonside Iron Works, Bristol, Engineer.	Improvements in the fire-boxes of locomotive and other steam boilers.
485	26th Feb. 1856.	John Barrow, junior, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist.	Improvements in the manufacture of soda, sulphurous, and sulphuric acids, carbonic acid, chlorine and muriatic acid and apparatus used therein.
487	„	Samuel Henn and Thomas Haddon, Rivet Manufacturers, trading as Co-partners, at Gibb Street Works, Gibb Street, Deritend, Birmingham, in the county of Warwick.	Certain improvements in the mode or modes of forming or making the heads of ornamental nails when such heads are formed of a different metal or metals from the shanks of the same.
490	„	James Steedman, of Albany Street, in the county of Middlesex, Pianoforte Maker.	An improvement in piano-fortes.
491	„	John Cornes, of Swan Lane, in the city of London, Engineer.	Improvements in machines for washing and churning.
493	„	Francis Thompson, of the firm of Parker and Thompson, of Sheffield, in the county of York, Tool and Patent Skate Manufacturers.	An improvement in skates.
494	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	A composition or compositions to be used as a substitute for hops in brewing.
495	„	George Parry, of the Ebbw Vale Iron Works, in the county of Monmouth, Furnace Manager.	An improvement in the puddling and refining of iron.
496	„	Isaac Reckitt, George Reckitt, and Francis Reckitt, of Kingston-upon-Hull, being people called Quakers.	Improvements in the manufacture of starch, British gum, and size.
499	27th Feb. 1856.	Peter Armand le Comte de Fontaine-Moreau, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London.	A new cicatrising preparation.
502	„	William Exall, of Reading, in the county of Berks, Civil Engineer.	Improvements in the manufacture and arrangement of sawing machinery.

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503	27th Feb. 1856.	Edward Ellis Allen, of 376, Strand -	Improvements in the permanent ways of railways.
508	28th Feb. 1856.	John Smith, of Derby, Brassfounder.	Improvements in water gauges for steam boilers, which improvements are also applicable to cocks used for steam and other purposes.
515	„	Pierre Louis Grosrenaud, Engineer, of St. Etienne Town, in the French Empire.	Certain improvements in apparatus or furnaces for melting and puddling metals.
516	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in treating bituminous shale, boghead mineral, and other like schistous bodies in order to obtain various commercial products therefrom.
518	29th Feb. 1856.	John Brierley, of Blackburn, in the county of Lancaster, Spinner and Manufacturer.	Improvements in machinery or apparatus for twisting and doubling yarns for mule banding and similar purposes.
520	„	John Graham, of Aughton, in the county of Lancaster, of the firm of Kay and Hilton, Liverpool, Millstone Manufacturer.	Improved machinery for cleaning and dressing rice and other grain.
521	„	John Greenwood, of Rawden, near Leeds, in the county of York.	Improvements in heating water for the supply of steam boilers.
522	„	Foster Connor, of Belfast, in the county of Antrim, Ireland, Linen Manufacturer.	Improvements in looms for weaving.
523	„	Charles Barlow, of the Office for Patents, 89, Chancery Lane, London.	Improvements in machinery for cutting cloth and other textile fabrics.
524	„	William Allen Turner, of No. 125, Wood Street, Cheapside, in the city of London, India Rubber Manufacturer.	Improvements in the manufacture of elastic tubing.
525	1st Mar. 1856.	William Crozier, of the borough of Sunderland, in the county of Durham, Civil Engineer.	The better extinction of fire, street watering, and other purposes.
530	„	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in looms for weaving.
531	„	Paul Rapsey Hodge, of No. 4, Albion Grove, Islington, in the county of Middlesex, Civil Engineer.	Improvements in the method of lighting domestic fires.
533	„	Alfred Francis, of Encomb Terrace, Wandsworth Road, Cement Manufacturer.	Certain improvements in the manufacture of a composition applicable as a cement or plaster, and to other purposes.
535	„	Cyprien Marie Tessié du Motay, of No. 24, Rue Fontaine St. George, Paris, Chemist, and Jean Jacques Fontaine, of No. 19, Rue Paradis, Poissonnière, Paris, Merchant.	Improvements in treating cast iron.
537	„	François Rualem, of 29, Rue de Paris à Belleville, France, Milkman.	An improvement in the manufacture of fuel.

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539	3rd Mar. 1856.	ADOLPHUS OPPENHEIMER, of Manchester, in the county of Lancaster, Manufacturer.	Certain improvements in machinery or apparatus for stretching or distending velvets and other piled goods or fabrics, for the purpose of cutting the pile of such goods.
540	„	JAMES WALLACE, junior, of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in bleaching, washing, cleansing, and drying textile fabrics and materials.
541	„	JULIUS HOMAN, of Milk Street, Cheapside, in the city of London, Manufacturing Outfitter.	An improved mode of driving sewing machines.
542	„	JOHN ASPINALL, of Limehouse, in the county of Middlesex, Civil Engineer.	Improvements in machinery for curing sugar or extracting moisture therefrom, applicable to separating liquids from solids.
544	„	JOHN VENABLES, of Burslem, in the county of Stafford, China and Earthenware Manufacturer.	Improvements in ornamenting articles made of clay and other similar plastic materials.
548	4th Mar. 1856.	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	An improved fabric suitable for ladies' garments.
550	„	CHARLES THOMAS ROSENBERG, of 12, Clarence Terrace, Camberwell New Road.	Improvements in ornamenting china, glass, and other surfaces when transferring printed impressions.
551	„	MARTIN SAMUELSON, of Scott Street, Hull.	Improvements in screw propellers.
554	5th Mar. 1856.	SAMUEL CLEGG and JOHN KAY, of Padiham, near Burnley, in the county of Lancaster, Warpers.	Improvements in machinery or apparatus for warping yarns.
555	„	RICHARD DUGDALE KAY, of Accrington, in the county of Lancaster, Manufacturer.	Improvements in the manufacture of fabrics from fibrous materials.
556	„	WILLIAM BILLINTON, of Great George Street, Westminster, Civil Engineer.	An improved method of treating wooden railway sleepers.
557	„	SAMUEL LAST, of Oxford Street, in the county of Middlesex, Trunk Manufacturer.	Improvements in trunks or portmanteaus, and an improved lock for the same.
558	„	CHARLES MORGAN, of Cwm Aman, near Llanelly, in the county of Carmarthen, Gentleman, and CHARLES RANKEN VICKERMAN, of Kilgetty, near Saundersfoot, in the county of Pembroke, Gentleman.	An improved preparation of fuel, and the application of the same to steam boiler purposes.
565	6th Mar. 1856.	ROBERT MORRISON, of the town and county of Newcastle-upon-Tyne, Engineer.	Improvements in pile-driving machinery.
568	„	JOHN WILLIAM SCOTT, of the city of Worcester, Manufacturer of Finch's Patent Solid Leather Button.	An apparatus for fastening or securing buttons which may itself be used as a stud or button.
571	7th Mar. 1856.	The CHEVALIER GUILLAUME HÄHNER, of Leghorn, in Tuscany, and of 4, South Street, Finsbury, London.	Certain improvements in the treatment of ores.
572	„	DAVID BROWN, of Smethwick, in the county of Stafford, Machinist, and WILLIAM BROWN, of Smethwick aforesaid, Roll Turner.	An improvement or improvements in rolling railway switches from railway bars, and in rolling taper ends on other bars requiring the same.

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573	7th Mar. 1856.	Frederic Hale Holmes, of London, in the kingdom of Great Britain, Analytical Chemist.	Improvements in machines known under the name of Magneto-electric Machines.
574	8th Mar. 1856.	Thomas Cook, of Addiscombe, in the county of Surrey, Lieutenant in Her Majesty's Royal Navy.	Improvements in portable bedsteads.
575	„	Henry B. Young, of Barnstaple.	Certain improvements in steam engines.
578	„	David Yoolow Stewart, of Glasgow, in the county of Lanark, North Britain, Iron-founder.	Improvements in moulding or shaping metals.
579	10th Mar. 1856.	Robert Hannah, of Glasgow, in the county of Lanark, North Britain, Pottery Manager.	Improvements in pottery kilns.
581	„	Pierre Denis Nolet, of Rue de la Lune, Paris, Practical Engineer.	Improvements in pen holders.
584	„	James Mills, of Oldham, in the county of Lancaster, Machinist.	An improvement in spindles used in certain machines for preparing spinning and doubling cotton and other fibrous substances.
587	11th Mar. 1856.	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Certain improvements applicable to bakers' ovens.
590	„	Oliver Maggs, of Bourton Foundry, Dorset.	Improvements in the straw shaking apparatus of thrashing machines.
591	„	Henri Petitpierre, of No. 15, Avenue de St. Ouen, Batignolles, near Paris, Engineer.	Improvements in sawing or cutting stone.
593	12th Mar. 1856.	Henry Horner and Richard Bagley, both of Sheffield, in the county of York.	Improvements in buffers and draw and bearing springs for railway and other purposes.
594	„	George Spencer, of No. 6, Cannon Street, Engineer, London.	Improvements in supporting the rails of railways.
602	„	William Bramwell Hayes, of Manchester, in the county of Lancaster, Manufacturer.	Certain improvements in looms for weaving.
603	„	John Northcote Ryder, of Thames Street, in the city of London.	An improvement in slide valves of steam engines.
604	„	George Murray, of Whitehill Point, in the county of Northumberland, Engineer.	An improvement in the construction and manufacture of wheels for locomotive engines, waggons, and other carriages to be used on railways.
606	13th Mar. 1856.	Christopher Duckworth and Thomas Marsden, both of the city of Manchester, Manufacturers.	The manufacture of a new or improved woven fabric.
608	„	Joseph Sturge, of Kennington, in the county of Surrey, and Alfred Sturge, of Northfleet, in the county of Kent, Engineers.	Improvements in rotary fluid meters.
610	„	Isaac Dickson, of Liverpool, in the county of Lancaster, Builder.	An improved propeller for steam ships and other vessels.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
611	13th Mar. 1856.	Grand de Châteauneuf, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Civil Engineer.	A hydro-pneumo-metric gas meter.
613	„	James Murdoch, of 7, Staple Inn, in the county of Middlesex, Patent Agent.	An improved mode of manufacturing cut velvets and other similar fabrics.
615	14th Mar. 1856.	Prosper Pimont, of Rouen, in France, Manufacturer.	A certain process for restoring metallic spoiled pens.
616	„	Charles Durand Gardissal, of 10, Bedford Street, Strand, London, Patent Agent, and of 29, Boulevart Saint Martin, Paris.	An improvement in capstans.
617	„	Charles Durand Gardissal, of 10, Bedford Street, Strand, London, Patent Agent, and of 29, Boulevart Saint Martin, Paris, France.	An improvement in ships' windlasses.
621	„	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for separating gold and other metals from their ores.
623	15th Mar. 1856.	Louis Joseph Richard, of Tirlemont (Belgium), Sugar Refiner.	Improvements in sugar manufacture.
627	„	James Rice, of Foley Place, Surgeon, and William Rice, Lieutenant, H.E.I.C.S.	Improvements in breech-loading repeating guns and rifles.
628	„	Joseph Dumas, of Marseilles, in the empire of France, at present residing at No. 8, Windsor Terrace, City Road, in the county of Middlesex.	An improved description of tile.
634	17th Mar. 1856.	George Hills, of Bellmont Hill, Lee, in the county of Kent.	Improvements in treating fatty and oily substances, so as to obtain stearine and oleine in separate states.
637	„	Thomas Palmer, of Tavistock, in the county of Devon, Currier.	Pumps with a new or improved box and valve.
638	„	Robert Thomson, of Glasgow, in the county of Lanark, North Britain, Manager.	Improvements in weaving.
639	„	William Graham, of Glasgow, in the county of Lanark, North Britain, Master Mariner.	Improvements in marine compasses and in adjusting the same on board ship.
643	18th Mar. 1856.	Edward Rowley, of West Bromwich, in the county of Stafford, Iron Roller, and John Hadley, of Birmingham, in the county of Warwick, Engineer.	A new or improved method of shaping iron.
645	„	John Drury, of Paddock, near Huddersfield, in the county of York, Machine Maker.	Improvements in steam boilers for preventing explosion thereof.
649	„	Peter Appleton, of 7, London Street, New Swindon, in the county of Wilts.	Improvements in knives for peeling apples, potatoes, and other fruits and roots.
650	19th Mar. 1856.	Lazare Ochs, of Saint Josse-ten-Noode, in the kingdom of Belgium, Manufacturer.	Improvements in the manufacture of certain kinds of paper from the refuse of tanned leather.
651	„	Richard Morgan, of Acton, in the county of Middlesex, Gentleman.	A cellular purse.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
652	19th Mar. 1856.	Thomas Richardson, of Hartlepool, in the county of Durham, Engineer, and George William Jaffreys, Engineer, of Hartlepool, in the county of Durham.	Improvements in marine steam engines.
653	„	Augustus Dacre Lacy, of Hall House, Knayton, near Thirsk, Yorkshire, Gentleman.	Improvements in certain apparatus for taking up and delivering mail bags and other packages from a railway carriage or carriages whilst the train is in motion.
658	„	David Cope, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of spoons, forks, and ladles.
660	„	John Bishop Hall, of the city of New York, in the United States of North America.	Improvements in preparing and treating pictures.
661	„	Charles Frederick Parsons, of Lambeth, in the county of Surrey, Engineer.	Machinery to be employed in the bleaching and dyeing of cloths, yarns, and fabrics.
662	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in balance slide valves.
664	20th Mar. 1856.	Peter Armand le Comte de Fontaine-Moreau, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, in the empire of France, Patent Agent.	Improvements in looms for weaving.
667	„	William Charles Theodore Schaeffer, of Bradford, in the county of York.	An improvement in treating soap suds and wash waters.
669	„	John Trueman, of 34, Castle Street, Belfast, Ireland, Baker and Confectioner.	Improvements in ovens for baking.
671	22nd Mar. 1856.	James Murphy, of Newport, in the county of Monmouth, Civil Engineer.	Improvements in means or apparatus for stopping or retarding vehicles used on rail or other roads; which improvements are also applicable to the break wheels in connection with stationary engines.
673	„	William Brierley and James Platts Brierley, of Cleckheaton, in the county of York, Machine Makers.	Improvements in looms for weaving.
674	„	Walter Glover, of Salford, near Manchester, in the county of Lancaster, Dyer and Finisher.	Improvements in the construction and arrangement of machinery or apparatus for damping and beetling woven fabrics.
675	„	Henry Pratt, Engineer, of Worcester.	Certain improvements in the construction of union mills, and in the application of the motive power apparatus and machinery connected with the manufacture of flour and bread, parts of which are also applicable for other useful purposes.
679	„	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in electro-magnetic printing telegraphs.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
681	22nd Mar. 1856.	JOHN HINKS and GEORGE WELLS, of Birmingham, in the county of Warwick, Manufacturers and Co-partners.	Improvements in metallic pens and penholders.
684	„	WILLIAM HENRY BARLOW, of the Midland Railway, Derby.	Improvements in covering and constructing bridges, viaducts, floors, and other structures of a like nature when iron is used.
686	„	JOHN JUCKES, of Dame Street, Islington -	Improvements in furnace bars.
690	24th Mar. 1856.	THOMAS HEATON, of Blackburn, in the county of Lancaster, Engineer.	Improvements in self-acting doors and gateways.
691	„	JAMES BRYANT the Younger, of Plymouth, in the county of Devon, Sugar Refiner.	Improvements in machinery or apparatus for the reburning of animal charcoal.
694	„	PETER BROWN, of Liverpool, in the county of Lancaster, Corn Merchant, and GEORGE BROWN, of the same place, Corn Merchant.	An improved ash-pan for fire grates.
695	„	RICHARD HUSBAND, of Manchester, in the county of Lancaster, Hat Manufacturer.	Certain improvements in the manufacture of hats.
696	„	JOHN TYSOE, of Salford, in the county of Lancaster, and CHARLES TYSOE, of the same place, Cotton Spinners and Manufacturers, and PETER FOXCROFT, of the same place, Manager.	Certain improvements in machinery or apparatus for roving, spinning, and doubling cotton and other fibrous substances.
697	„	WILLIAM PITT and EDWIN TURNER DAVIES, of Birmingham, in the county of Warwick, Brass Founders.	Improvements in the manufacture of brackets and castors for furniture.
698	„	WILLIAM CLAY, of Liverpool, in the county of Lancaster, Iron Merchant.	Improvements in the manufacture of wrought or bar iron.
700	„	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Certain improvements in cranes.
706	25th Mar. 1856.	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in machinery or apparatus for raising nap or pile.
709	„	JAMES HARGREAVES, of the Woollen Works, Carlisle, in the county of Cumberland.	Improvements in the apparatus used for dyeing fabrics.
712	„	ROBERT COLLINS, of Trent, in the county of Somerset.	An improved agricultural implement.
717	26th Mar. 1856.	ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	A new process of producing chemical writing, and of marking and inscribing chemically any characters or figures upon paper or other substances of similar character.
718	„	ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	An improved mode of manufacturing porous earthenware.
719	„	WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Gentleman.	Improvements in the manufacture of glass.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
721	26th March, 1856.	David Lowe, of Leicester, in the county of Leicester, Mechanic.	Improvements in knitting machinery.
725	,,	James Rock the Younger, of Hastings, in the county of Sussex, Carriage Builder.	Improvements in carriages, parts of which are applicable to other structures.
726	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved apparatus for exploring under water.
727	,,	William Clayton, of Watling Street, in the city of London, Perfumer and Soap Manufacturer.	An improved manufacture of soap.
728	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in macerating substances to be employed in the process of distillation.
731	27th Mar. 1856.	Joseph Tall, of Islington, in the county of Middlesex, Gentleman.	Improvements in blind rollers, and in fixings for the same.
733	,,	Richard Durant Cumming, of St. James's, Middlesex.	A footstool and hassock combined.
734	,,	Bonnet Frédéric Brunel, of Hampstead Road, in the county of Middlesex, Chemist.	Improvements in the manufacture of Prussian blue.
737	,,	Allen Levinston Hill, of Birmingham, in the county of Warwick, Builder.	Improvements in furnaces for steam-boilers, japanners' stoves and other such like purposes.
741	28th Mar. 1856.	Joseph Auguste Barratte, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Civil Engineer.	A new rotatory steam engine.
743	,,	William Ward, of Warrington, in the county of Lancaster, Spinner and Manufacturer,	Improvements in apparatus for lubricating the spindles of certain machines used in preparing and spinning.
744	,,	Alfred Daniel, of Moorfields, Wolverhampton, in the county of Stafford, Lock Manufacturer.	Improvements in the manufacture of keys and locks.
745	,,	Joseph Webber, of Torquay, in the county of Deven, Slate and Cement Merchant.	Improvements in generating steam.
746	,,	John Charritie, of Cannon Street, and William Smith, of 10, Salisbury Street, Adelphi.	Improvements in the manufacture of small shot.
748	,,	Samuel Getley, of 6, Ivy Street, Birkenhead, in the county of Chester, Plumber.	Improvements in supplying and drawing water to and from cisterns.
750	,,	Alfred Trueman, of Swansea - -	Improvements in treating argentiferous regulus.
753	29th Mar 1856.	Charles Wye Williams, of Liverpool, in the county palatine of Lancaster, Gentleman.	Improvements in the application of air propelling or exhausting apparatus for ventilating, and like purposes on board steam vessels.
755	,,	Francis Puls, of Soho Square, in the county of Middlesex, Chemist.	Improvements in galvanic batteries.
756	,,	John James Rippon, of Oakenshaw Print Works, near Accrington, in the county of Lancaster, Manufacturer.	An improvement or improvements in rollers or cylinders for printing fabrics.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
758	29th Mar. 1856.	James Eives, of 17, Cornhill, London.	A new mode of preparing fibres from plants.
759	,,	William Muschamp, of the Tyne Paper Mill Company, Gateshead.	An improvement in the manufacture of paper in order to render the same waterproof.
760	,,	Herbert Newton Penrice, Captain in the Royal Engineers, now stationed at Newcastle-upon-Tyne, in the county of Northumberland.	Improvements in machinery for driving galleries through rock and other strata.
763	,,	William Nimmo, of Pendleton, in the county of Lancaster, Spinner and Manufacturer.	Improvements in the manufacture of textile fabrics.
764	,,	Charles Durand Gardissal, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent.	Certain improvements in steam boilers
767	,,	Charles Durand Gardissal, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent.	An improvement in screw stop valves.
768	,,	Charles Durand Gardissal, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent.	Certain improvements in machinery for sweeping streets and other ways.
769	31st Mar. 1856.	James Hicks, of Piddle Trenthide, in the county of Dorset, Clerk.	Improvements in stoves.
771	,,	Charles Jean le Mélorel de la Haichois, of 39, Rue de l'Echiquier, Paris, and of 4, South Street, Finsbury, London, Advocate.	Certain improvements in paving.
772	,,	Henry Henderson, of Glasgow, in the county of Lanark, North Britain, Plumber.	Improvements in stop cocks or valves.
775	,,	Thomas Waller Burrell, of Fareham, in the county of Hants, Civil Engineer.	Improvements in machinery for obtaining power by water.
776	,,	Henry Cornforth, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of plated teapots and coffee pots, and other vessels and articles of like manufacture.
778	,,	George Thomas Smith, of Northampton, in the county of Northampton, and Joel Watts, of Battersea, in the county of Surrey.	An improved lubricator.
779	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved machinery for folding paper.

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Invention Delivered on the 7th April, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 550 of this Journal.)

1. C. Verger, represented by J. Boutillier, of Schaerbeek, for an imported invention of "Metal socles of crosses."—Dated 18th March, 1859.—(French Patent, 11th December, 1858.)
2. Sulzberger and Graf, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for folding and stitching sheets of paper."—Dated 18th March, 1859.—(French Patent, 9th March, 1859.)
3. A. Castelloi, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of railway breaks."—Dated 21st March, 1859.—(French Patent, 14th March, 1859.)
4. V. Fourquenot, represented by H. Biebuyck, of Brussels, for an imported invention of "A mode of lubricating axle journals, pivots of carriages and connecting machinery."—Dated 21st March, 1859.—(French Patent, 12th March, 1859.)
5. S. Davey and A. L. Chanu, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Additions to their composition for blasting rocks, &c."—Dated 21st March, 1859.—(Original Patent, 20th November, 1858.)
6. F. Bertinchamps, represented by D. de Vos Verraert, of Brussels, for "Iron slide rafters, applicable to constructions, timber-work, &c."—Dated 22nd March, 1859.
7. The Vandenbrande's Works, at Schaerbeek, for "An apparatus for discharging condensed steam without waste of steam."—Dated 23rd March, 1859.
8. J. Thérèse, represented by H. Biebuyck, of Brussels, for an imported invention of "An horizontal mill worked by two levers."—Dated 23rd March, 1859.—(French Patent, 27th February, 1859.)
9. L. and A. Noetens, of Brussels, for "Foot coverings."—Dated 23rd March, 1859.
10. L. J. E. Dupont, represented by O. Daillencourt, of Brussels, for an imported invention of "Machines for hulling grits."—Dated 23rd March, 1859.—(French Patent, 10th January, 1859.)
11. E. Bauthière-Paquet, of Montigny-sur-Sambre, for "Vertical benches for glass pots in glass furnaces, with a rectilinear horizontal movement."—Dated 24th March, 1859.
12. P. Goeseels, of Liége, for "Iron projectiles and leaden balls for rifled arms and ordnance."—Dated 24th March, 1859.
13. J. Ruelle and Co., of Liége, a Patent of Improvement for "Modifications in their apparatus for extracting coal."—Dated 24th March, 1859.—(Original Patent, 20th January, 1859.)
14. A. Feron, of Salzinne-lez-Namur, for "A circular oven with a moveable hearth for baking bread."—Dated 22nd March, 1859.
15. H. Meidinger, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Improvements in his constant electrical batteries."—Dated 25th March, 1859.—(Original Patent, 13th December, 1858.)
16. A. F. Jaloureau, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Improvements in his system of piping."—Dated 25th March, 1859.—(Original Patent, 8th September, 1855.)
17. T. E. O. Sarrazin and H. Vincent, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for checkering skins for hats, scabbards, bookbinding, &c."—Dated 25th March, 1859.—(French Patent, 21st March, 1859.)
18. F. Marchal, represented by H. Biebuyck, of Brussels, for an imported invention of "A closing apparatus for preventing any excessive pressure of steam."—Dated 25th March, 1859.—(French Patent, 19th March, 1859.)
19. S. Dreyfous, G. Richer, and E. Cormier, represented by X. Raclot, of Brussels, for an imported invention of "A mode of preserving eggs."—Dated 26th March, 1859.—(French Patent, 7th February, 1859.)
20. C. Delflas, of Mons, for "A double cylinder with double branches applicable to all brass instruments."—Dated 29th March, 1859.
21. L. G. Linant, represented by X. Raclot, of Brussels, for "Improvements in railway breaks."—Dated 28th March, 1859.
22. E. L. Desaint, of St. Josse-ten-Noode, for "Modifications in locks of doors of railway carriages, &c."—Dated 29th March, 1859.
23. F. Deboubers, of Ghent, for "Improvements in double machines for planing straight and conical gearings."—Dated 29th March, 1859.
24. T. Dubout, represented by X. Raclot, of Brussels, a Patent of Improvement for "Additions to his mode of making envelope paper."—Dated 30th March, 1859.—(Original Patent, 16th April, 1856.)
25. E. Libotte and G. Planche, of Gilly, a Patent of Improvement for "A modification in his parachute for mines."—Dated 31st March, 1859.—(Original Patent, 20th January, 1859.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

Erratum in Journal of 19th April.

434. For "William Horstman," read "William H. Horstman."

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Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 327 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 554. TUESDAY, APRIL 26, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

2845. PATRICK ROBERTSON, of Sun Court, Cornhill, in the city of London, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in shuttles." —A communication.

2847. And MAXIMILIEN SCHAFFNER, Civil Engineer, of Eisenach, has given the like notice in respect of the invention of "Improvements in smelting zinc ores, and in furnaces employed for this purpose."

As set forth in their respective petitions, both recorded in the said office on the 11*th day of December,* 1858.

2851. And ROBERT WHITTAM, of Accrington, in the county of Lancaster, Engraver to Calico Printers, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for tracing designs from an engraved roller, or from an engraver's sketch upon steel or other metallic surfaces used as dies by engravers to calico printers."

As set forth in his petition, recorded in the said office on the 13*th day of December,* 1858.

2866. And FERDINAND JOSSA, of Bishop Auckland, in the county of Durham, Chemist, has given the like notice in respect of the invention of "Improvements in furnaces for generating steam and other purposes."

As set forth in his petition, recorded in the said office on the 14*th day of December,* 1858.

2876. And JONATHAN WARDILL, of Commercial Road, East, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "An improved stopper or controller to stop and control the running out of chains and ropes."

As set forth in his petition, recorded in the said office on the 15*th day of December,* 1858.

2886. And JOHN WALTER FRIEND, of Freemantle, Southampton, Watch and Clock Maker, has given the like notice in respect of the invention of "Improved apparatus for ascertaining and registering the depth and flow of liquids, and the distances run by ships at sea."

2887. And ALEXANDER MACKENZIE, of Glasgow, in the county of Lanark, North Britain, Machinist, has given the like notice in respect of the invention of "Improvements in sewing machines."

2888. And JOSEPH JEAN MARÇAIS, of Paris, France, Civil Engineer, has given the like notice in respect of the invention of "Improvements in galvanic batteries."

2890. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "An improvement in plating and gilding forks, spoons, and other metal articles."—A communication from Messieurs de Sauvigny, residing at Paris.

As set forth in their respective petitions, all recorded in the said office on the 16*th day of December,* 1858.

2893. And WILLIAM BECKETT JOHNSON, Manager for Messrs. Ormerod and Son, of Manchester, in the county of Lancaster, Engineers, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing for joining the rails of railways."

As set forth in his petition, recorded in the said office on the 17*th day of December,* 1858.

2902. And JAMES TAYLOR, of Birkenhead, Engineer, has given the like notice in respect of the invention of "Improvements in the construction

of pumps or engines for lifting and discharging water."

As set forth in his petition, recorded in the said office on the 18th day of December, 1858.

2920. And ROBERT CLEGG, of Islington, in the county of Middlesex, FREDERICK ANGERSTEIN, of Kennington, in the county of Surrey, and GEORGE FERRY, of Hackney, in the said county of Middlesex, have given the like notice in respect of the invention of "Improved mechanism for imparting reciprocating motion to machinery, and more especially pumps."

2924. And MICHAEL KENNEY, of Queen Street, Dublin, Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in bridges."

2929. And FREDERICK RANSOME, of Ipswich, has given the like notice in respect of the invention of "Improvements in the manufacture of grinding and rubbing surfaces."

As set forth in their respective petitions, all recorded in the said office on the 22nd day of December, 1858.

2952. And WILLIAM BECKETT JOHNSON, Manager for Messrs. Ormerod and Son, of Manchester, in the county of Lancaster, Engineers, has given the like notice in respect of the invention of "Improvements in the employment of gas for generating steam, and in engines connected therewith."

As set forth in his petition, recorded in the said office on the 24th day of December, 1858.

2963. And HENRY LOWE, of Birmingham, in the county of Warwick, Manufacturer, and WILLIAM TRUEMAN, of Birmingham aforesaid, Axle Maker, and JOHN LINWOOD PITTS, of Birmingham aforesaid, Accountant Clerk, have given the like notice in respect of the invention of "A new or improved axle for carriages."

As set forth in their petition, recorded in the said office on the 27th day of December, 1858.

2975. And WILLIAM TAYLOR, of Nursling, in the county of Southampton, Gentleman, and WILLIAM DAKIN GRIMSHAW, of the town and county of the town of Southampton, Engineer, have given the like notice in respect of the invention of "Regulating the admission of natural atmospheric air and eduction of rarefied air or gases from hothouses or any other place or premises and for supporting a required temperature."

2976. And RICHARD DUGDALE KAY, of Accrington, in the county of Lancaster, Manufacturer of Patent Fabrics, has given the like notice in respect of the invention of "An improved chemical means of applying or fixing on woven or felted fabrics certain coloring matters produced from tar."

As set forth in their respective petitions, both recorded in the said office on the 29th day of December, 1858.

3000. And HENRI ROBIN, of Nantes, in the empire of France, has given the like notice in respect of the invention of "Improvements in reaping machines."

3005. And FREDERIC WILHELM ALEXANDRE CASPER and GUILLAUME HENRY SCHMAHL, both of 152, Rue du Faubourg St. Martin, Paris, have given the like notice in respect of the invention of "Using spart or Spanish broom in manufacturing seats of all descriptions."

As set forth in their respective petitions, both recorded in the said office on the 31st day of December, 1858.

7. And JOHN OLIVER, of White Bank, near Chesterfield, in the county of Derby, has given the like notice in respect of the invention of "Improvements in lubricators for steam engine cylinders."

As set forth in his petition, recorded in the said office on the 1st day of January, 1859.

38. And WILLIAM DRAPER, of No. 2, Gordon Terrace, Holland Road, Brixton, in the county of Surrey, Artist, has given the like notice in respect of the invention of "Improvements in machinery for printing on paper and other fabrics."

42. And WILLIAM CORFIELD the younger, of Charlton-Adam, in the county of Somerset, has given the like notice in respect of the invention of "Improvements in chains for coupling, cranes, cables, mining purposes, hoisting, and all other purposes where chains are used."

As set forth in their respective petitions, both recorded in the said office on the 5th day of January, 1859.

59. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machinery for winding, twisting, and doubling fibrous materials."—A communication from Louis Barnabé Duboc, junior, of Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 7th day of January, 1859.

153. And RICHARD GARRETT, junior, of Leiston Works, Saxmundham, in the county of Suffolk, and JAMES KERRIDGE, Foreman to Messrs. Garrett and Sons, of Leiston Works aforesaid, have given the like notice in respect of the invention of "An improved arrangement of combined thrashing and dressing machine."

As set forth in their petition, recorded in the said office on the 18th day of January, 1859.

177. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improved apparatus for measuring water and other liquids."—A communication from Mr. Alfred Nobel, Engineer, of Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 20th day of January, 1859.

647. And THOMAS PATSTONE, of Birmingham, in the county of Warwick, Warehouse Clerk, has given the like notice in respect of the invention of "Improvements in shades or glasses for gas and other lamps, and in the supports of the said shades or glasses."

As set forth in his petition, recorded in the said office on the 14th day of March, 1859.

62. And Henry Ambler, of Halifax, in the county of York, has given the like notice in respect of the invention of "Improvements in breech-loading ordnance, and in the means of producing part or parts thereof, which improvements are also applicable to what are called small arms."
As set forth in his petition, recorded in the said office on the 16th day of March, 1859.

734. And John Macintosh, of North Bank, Regent's Park, Gentleman, and Godfrey Rhodes, of Regent's Street, Major in Her Majesty's Army, have given the like notice in respect of the invention of "Improvements in tents and such like coverings for shelter against the weather."
As set forth in their petition, recorded in the said office on the 22nd day of March, 1859.

765. And Mark Firth, of the firm of Thomas Firth and Sons, of Sheffield, in the county of York, Steel Manufacturers and Merchants, has given the like notice in respect of the invention of "Improvements in machinery for grinding saws and flat plates of steel."—A communication from E. T. Jones, residing in Montreal.
As set forth in his petition, recorded in the said office on the 26th day of March, 1859.

876. And William Campion, of the town and county of the town of Nottingham, Machine Builder, of the firm of W. W. Campion, of the said town, Machine Builders, has given the like notice in respect of the invention of "Improvements in machinery for the manufacture of looped fabrics."
As set forth in his petition, recorded in the said office on the 8th day of April, 1859.

935. And Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, has given the like notice in respect of the invention of "A now cooling apparatus for liquids, especially beer."—A communication from Jean Louis Baudelot, of No. 10, Rue Mogador, Paris, in the empire of France.
As set forth in his petition, recorded in the said office on the 14th day of April, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 23rd April*, 1859, *inclusive.*)

21st April.

1006. Thomas Heiffor, of Sheffield, in the county of York, Manufacturer, for an invention of "An improved method of manufacturing razor blades."—Dated 26th April, 1856.

23rd April.

997. Robert Lakin, of Stretford, in the county of Lancaster, Machinist, John Thompson, of Ardwick, in the city of Manchester, in the said county, Foreman, Edward Gerrard Fitton, of Ardwick aforesaid, Foreman, and Frederick Alexander Fitton, of Ardwick aforesaid, Mechanic, for an invention of "Improvements in or applicable to certain machines for preparing and spinning cotton and other fibrous substances, some of which improvements relating to apparatus for lubricating and to the construction of studs are also applicable to machinery for other purposes."—Dated 25th April, 1856.

1003. Claude Antoine Arnaud, of Lyons, in the empire of France, Manager of the Company called "La Rotative," for an invention of "Improvements in obtaining motive-power from steam and other fluids, and in pumping and forcing water and other fluids."—A communication.—Dated 26th April, 1856.

1058. Isaac Holden, of St. Denis, near Paris, in the empire of France, Wool Comber, for an invention of "Improvements in preparing and combing wool and other fibrous substances."—Dated 5th May, 1856.

1097. George Jordan Firmin, of Newton-le-Willows, Lancashire, Manufacturing Chemist, for an invention of "Improvements in the manufacture of sulphuric, tartaric, citric, and oxalic acids, ammonia, and cyanides."—Dated 9th May, 1856.

Erratum in Journal of 22nd April.

880. For "Improvements in dying" read "Improvements in dyeing."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

754. CHARLES DEYRES, of 25, Rue des Ayres, Bordeaux, département de la Gironde, for "Glass for tumblers."—Dated 21st February, 1859.

755. GABRIEL DESCAT, of Flers, département du Nord, for "A system of finishing fabrics."—Dated 23rd February, 1859.

756. LOUIS TAILLY, of 98, Rue St. Sauveur, Lille, département du Nord, a Certificate of Addition to his Patent of 25th February, 1858, for "A system of emptying cesspools without causing smell."—Dated 23rd February, 1859.

757. GILBERT LASSAUZÉE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Books of cigaret paper with commercial addresses."—Dated 16th February, 1859.

758. PIERRE ANTOINE BELORGÉ, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 21st August, 1858, for "Improvements in the arrangement and manufacture of braces, &c."—Dated 16th February, 1859.

759. LOUIS CHARLES BAINVILLE, of La Varenne, St. Maur, for "Improvements in opera glasses."—Dated 16th February, 1859.

760. CLAUDE MAMES AUGUSTIN MARION, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 17th December, 1858, for "An arrangement of boxes for preserving nitrated paper for photographic and other purposes."—Dated 16th February, 1859.

761. PAILLARD and ROUSSEAU, the former of 16, Impasse du Maine, of Vaugirard, for "Inlaid floors expanding freely."—Dated 17th February, 1859.

* For the French Patent Law see No. 228 of this Journal.

762. MENEUT and GORGU, domiciled with Letellier, of 8, Rue Neuve des Martyrs, Paris, a Certificate of Addition to their Patent of 17th November, 1858, for "A system of railway switches, &c."—Dated 17th February, 1859.

763. THÉODORE NICAISE, of 54, Rue de Ménilmontant, Paris, for "A process for manufacturing oil."—Dated 17th February, 1859.

764. LOUIS PIERRE DOUSERIN TRAGIN, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in plates of bracelets."—Dated 17th February, 1859.

765. PAUL MARIE SALOMON, of 46, Rue Bourbon-Villeneuve, Paris, for "An economical system of lighting by means of oil-essences in mixed lamps with prepared wicks."—Dated 17th February, 1859.

766. JEAN BAPTISTE MARIE AMIDÉE BOURREIFF, of 12, Rue des Petites Ecuries, Paris, for "Applying cast-iron, ivory, horn, &c. to crystal articles in buildings and furniture, &c."—Dated 17th February, 1859.

767. PIERRE EUGÈNE DUCHASSAING, represented by Brade, of 22, Rue Ste. Anne, Paris, a Certificate of Addition to his Patent of 26th February, 1858, for "An apparatus for candles, &c."—Dated 17th February, 1859.

768. ERNEST BAGNICKI, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A syringing apparatus."—Dated 17th February, 1859.—(American Patent, expiring 18th January, 1873.)

769. JEAN AUGUSTE HILAIRE BALLANDE, of 10, Rue de Madame, Paris, for "A kind of paper and ink."—Dated 17th February, 1859.

770. FRÉDÉRIC JULES FLAMMGER, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of dressing cases, bags, portemonnaies, cigar cases, &c."—Dated 17th February, 1859.

771. Messrs. DEPOULLY, of 12, Rue du Bac d'Asnière, Clichy-la-Garenne, for "Preparing indigo."—Dated 17th February, 1859.

772. Miss FÉLICITÉ PROPHÊTE, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Processes and apparatuses for producing and using carbonic acid gas, for improving gaseous beverages."—Dated 18th February, 1859.

773. JEAN BAPTISTE ROBIN, of 28, Boulevart des Amandiers, Belleville, for "A curvilinear saw with an alternate movement."—Dated 18th February, 1859.

774. CHARLES LOUIS LEROY, of 11, Rue St. Joseph, Paris, for "A kind of weaving."—Dated 18th February, 1859.

775. JEAN VICTOR FOUCHIER, of 33, Rue de Rivoli, Paris, for "An improved mode of grinding corn so as to obtain flour which may be made into bread at once."—Dated 18th February, 1859.

776. FRANCISCO RIDAURA-Y-ABAD, represented by Amouroux, of 333, Rue St. Martin, Paris, for "Cigaret paper."—Dated 18th February, 1859.

777. CHARLES JOSEPH LOUIS MARCELIN, of 40, Rue Basse du Rempart, Paris, for "A system of inlaid floors."—Dated 18th February, 1859.

778. L. SAGNIER and Co., of 182, Rue du Faubourg St. Denis, Paris, for "A double pedestal for por-

table scales and weighing machines, combined with a wedging apparatus."—Dated 18th February, 1859.

779. François Désiré Savalle, of 14, Rue de Paris, St. Denis, a Certificate of Addition to his Patent of 4th April, 1857, for "A distilling apparatus, provided with a regulator of heat."—Dated 18th February, 1859.

780. Pierre Patrice Leterme, of 190, Rue du Temple, Paris, a Certificate of Addition to his Patent of 23rd October, 1854, for "A melophonorgan."—Dated 18th February, 1859.

781. Jacques Fulcraud Pascal Hugouneng, domiciled with Rohart, of 13, Rue Lemercier, Batignolles, for "Treatment of wool dyed with blue colours."—Dated 18th February, 1859.

782. Thomson and Armstrong, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in the permanent way of railroads."—Dated 18th February, 1859.

783. Messrs. Champaux, of 44, Boulevart des Amandiers, Belleville, for "A machine or apparatus for compressing crucibles."—Dated 18th February, 1859.

784. Gilbert Smith, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in breech-loading fire-arms, and in cartridges used therewith."—Dated 18th February, 1859.—(English Patent, expiring 23rd June, 1871.)

785. Louis Droissart, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 17th November, 1847, for "Improvements in manometers."—Dated 18th February, 1859.

786. Léon Numa Dejean, of 20, Place de l'Estrapade, Paris, a Certificate of Addition to his Patent of 23rd February, 1858, for "An hydraulic machine."—Dated 18th February, 1859.

787. Pierre Léonard Marc Debain, of 132, Boulevart Mont Lamasse, Paris, for "A system of cesspools."—Dated 19th February, 1859.

788. Marie Dreyfus, of 28, Rue des Martyrs, Paris, for "Glass for gas or oil apparatus used in lighting."—Dated 19th February, 1859.

789. François Félix Hélie Clément, of 49, Rue Folie Mericourt, Paris, for "A moveable reservoir, for rearing leeches."—Dated 19th February, 1859.

790. Jean Henri Guillaume Daniél Wagner, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Apparatus for removing substances, suspended and dissolved in water used for feeding boilers, being also applicable to other purposes, &c."—Dated 19th February, 1859.

791. A. Parent, T. Hamet, and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 21st September, 1858, for "A machine for making buttons."—Dated 19th February, 1859.

792. William H. Bell, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A self-acting system of distributing capsules in fire-arms."—Dated 19th February, 1859.

793. Philibert Larochette, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 6th March, 1858, for "A brewing machine for making beer."—Dated 19th February, 1859.

794. Edme Ferdinand Evras, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "So-called renaissance pages for suspending ladies' dresses."—Dated 19th February, 1859.

795. Wilhelm-Schneider, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in ladies' bags, travelling bags, dressing cases, &c. of leather or other stuffs."—Dated 19th February, 1859.

796. George Leach, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for winding off skeins of thread."—Dated 19th February, 1859.—(English Patent, expiring 2nd February, 1873.)

797. Frédéric Prince, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in breech-loading fire-arms."—Dated 19th February, 1859.—(English Patent, expiring 28th January, 1873.)

798. Louis Le Chatelier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 11th April, 1858, for "Manufacture of alumina for industrial purposes."—Dated 19th February, 1859.

799. Torrilhon, Verdier, and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of straps for transmitting motion, &c."—Dated 19th February, 1859.

800. Charles Husson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 15th December, 1857, for "Improvements in the manufacture of transparent tissues, &c."—Dated 19th February, 1859.

801. Paul Morin and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in filtering and refining liquids and substances."—Dated 19th February, 1859.

802. Jean Jerome Fages, of 86, Rue St. Antoine, Paris, for "A system of piercing taps."—Dated 19th February, 1859.

803. Pierre Carbonnier, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Apparatus for measuring the quantity of water fallen on any surface within a certain time, being also applicable as a water counter."—Dated 19th February, 1859.

804. Charles Hippolyte Mourceau, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 14th August, 1858, for "Improvements in the manufacture of carpets for furniture."—Dated 19th February, 1859.

805. Charles Louis Diray, of 3, Rue de Crébillon, Paris, a Certificate of Addition to his Patent of 25th February, 1858, for "An eccentric apparatus for breaking sugar."—Dated 21st February, 1859.

806. Pierre Carmien, of 31, Rue de Bretagne, Paris, for "A registering apparatus for public carriages."—Dated 21st February, 1859.

807. Joseph Isidore Morel, of Péronne, département de la Somme, a Certificate of Addition to his Patent of 16th November, 1858, for "A fountain pen."—Dated 17th February, 1859.

808. Jean Jacques Emile Collas, of Argenteuil, département de Seine et Oise, a Certificate of Addition to his Patent of 23rd September, 1858, for "A process for burning lime."—Dated 18th February, 1859.

809. François Calloch, of Ploutimec, département du Morbihan, for "A revolving apparatus for throwing out seeds by centrifugal power."—Dated 22nd February, 1859.

810. Pierre Lyonnet, of La Rochelle, département de la Charente Inférieure, "A system of loading fire-arms with metal cartridges."—Dated 22nd February, 1859.

811. Louis Fages, of Limoux, département de l'Aude, for "Improvements in the manufacture of hydrogen gas for lighting."—Dated 23rd February, 1859.

812. Massiaux, of Godart, Commune de Mantey St. Pierre, département des Ardennes, for "Improvements in nail machines." — Dated 23rd February, 1859.

813. Scrive Brothers, of Lille, departement du Nord, for "A tissue for making cards for carding all kinds of filaments."— Dated 24th February, 1859.

814. Charin Brothers, of Valence, département de la Drôme, for "A machine for making corks."—Dated 18th February, 1859.

815. Victor Chevalier, of 12, Rue Constantine, Lyon, département du Rhône, for "Beehives for rearing bees."—Dated 19th February, 1859.

816. Marrel Brothers, represented by Rambaud, of 13, Rue d'Algérie, Rive de Gier, département de la Loire, for "An economical process of manufacturing iron."—Dated 19th February, 1859.

817. Jean Vogel, of 1, Rue du Plâtre, Lyon, département du Rhône, for "Improvements in the construction of transposing pianos."—Dated 21st February, 1859.

818. Ducis Brothers, of 2, Rue Impériale, Lyon, département du Rhône, for "Tulle resembling lace called 'Lyon lace.'"—Dated 21st February, 1859.

819. Charles Prouvier, of Valence, département de la Drôme, a Certificate of Addition to his Patent of 8th September, 1858, for "A kind of telegraphic receiving apparatus." — Dated 22nd February, 1859.

820. Jean Odet Boutier, of 32, Quai de l'Hôpital, Lyon, département du Rhône, a Certificate of Addition to his Patent of 15th July, 1852, for "A kind of calorifere stoves with a steady heat." —Dated 23rd February, 1859.

821. Edouard Dorsett, represented by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, for "Improvements in distilling oil obtained from coal tar, and applying the same to apparatus used for preserving timber, also a vessel or cask used in the processes employed for preserving railway sleepers, &c."— Dated 23rd February, 1859.

822. Joseph Gillet, of 20, Chemin du Sacré-Cœur, Lyon, département du Rhône, for "Obtaining pure orchil." — Dated 23rd February, 1859.

823. Malicet, of Prix, département des Ardennes, for "A kind of blast pipe."—Dated 25th February, 1859.

824. Rosay, with his Son and Daughter, domiciled 5, Rue de la Cité, Hâvre, for "A direct rotary motor for working vessels, engines, &c., by steam." —Dated 19th February, 1859.

825. Goldenberg and Co., represented by Christmann, of Zornhoff near Saverne, département du Bas Rhin, a Certificate of Addition to their Patent of 23rd February, 1857, for "Making shoulders and applying them to rolled edge tools, such as scissors, gouges, firmer chisels, &c."—Dated 19th February, 1859.

826. Louis François Auguste Ausiaume, of 59, Rue St. Nicolas, Rouay, département de la Seine Inférieure, for "Spring mattresses with a double system."—Dated 21st February, 1859.

827. François Théophile Moison, of Mouy, département de l'Oise, a Certificate of Addition to his Patent of 5th February, 1858, for "A process for cleaning organic substances."— Dated 23rd February, 1859.

828. Adèle Félix Levannier, of Rohan, commune de Vannes, département du Morbihan, for "Apparatus for separating tare from good grains." —Dated 23rd February, 1859.

829. Louis Gloriod, of 85, Rue Battant, Besançon, département du Doubs, for "A machine for turning gold and silver watch cases."—Dated 24th February, 1859.

830. Misses Madeleine Hermine Basset, of 4, Rue de la Vielle Poterie, Orléans, département du Loiret, for "A machine for turning over leaves."— Dated 24th February, 1859.

831. Jacquard Dumezil, of 5, Place Bourgogne, Bordeaux, département de la Gironde, for "Refining sugar."—Dated 24th February, 1859.

832. Jean Baptiste Neyret, of 6, Rue Ste. Catherine, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 8th September, 1858, for "Printing several ribbons at once on tissues with silk warps and cotton wefts." —Dated 25th February, 1859.

833. Antoine Célis, of 13, Rue Neuve des Minimes, Amiens, département de la Somme, a Certificate of Addition to his Patent of 19th October, 1857, for "A machine for extracting peat."— Dated 22nd February, 1859.

834. Eugène Constant Vray, of St. Martin des Besaces, département du Calvados, for "Tiles for covering houses."—Dated 24th February, 1859.

835. Jean Verière, of 28, Rue des Princes, Meudon, département de Seine et Oise, a Certificate of Addition to his Patent of 3rd February, 1859, for "A system of pumps."—Dated 24th February, 1859.

836. Jean Pizzala, of Metz, département de la Moselle, for "Modifications and improvements in his chimneys combined with an hot-air stove, as patented 20th April, 1849."—Dated 24th February, 1859.

837. Alfred Dezaunay, of 4, Rue Deurbrouck, Nantes, département de la Loire Inférieure, for "A press for pressing grapes."—Dated 26th February, 1859.

838. Edmond Pesier, of Valencienne, département du Nord, for "Modifications in the manufacture of sugar."—Dated 28th February, 1859.

839. Henri Philippe Gis, of 219, Rue St. Martin, Paris, for "Manufacture of high-warp velvet."—Dated 21st February, 1859.

840. William Pearce, represented by Rowland, of 224, Rue de Rivoli, Paris, for "Improvements in the manufacture of bottles, vessels, and other similar articles hermetically closed."—Dated 25th February, 1859.—(English Patent, expiring 20th August, 1872.)

841. Mrs. Grogniet Betrema, represented by Baron, of 16, Rue Michel le Comte, Paris, for "Buttons of gloves."—Dated 21st February, 1859.

842. Doré, Chevé, and Co., domiciled with Doré, of 108, Rue du Cherche Midi, Paris, for "A machine for moulding pipes, axle-boxes, &c."—Dated 21st February, 1859.

843. Doré, Chevé, and Co., domiciled with Doré, of 108, Rue du Cherche Midi, Paris, for "Pipes with knuckle joints."—Dated 21st February, 1859.

844. Louis Auguste Mangin, of 74, Rue Richelieu, Paris, for "A slide apparatus for suspending dresses."—Dated 21st February, 1859.

845. François Lécuyer, of 12, Rue de Crussol, Paris, for "A winding-off apparatus."—Dated 21st February, 1859.

846. Paul Clément Jean Laurency, of 57, Rue Neuve des Petits-Champs, Paris, for "Hair tissue for artificial hair."—Dated 21st February, 1859.

847. Charles Alexandre Brillaux, of 4, Rue de Paris, Joinville-le-Pont, a Certificate of Addition to his Patent of 28th June, 1858, for "A continuous safety apparatus for preventing railway collisions."—Dated 21st February, 1859.

848. Fourès and Malet, with Dr. Siry, of 25, Rue de Ponthieue, Paris, for "Extracting carbonated hydrogen gas from wood, and using the same for heating boilers."—Dated 21st February, 1859.

849. Louis Alexandre Dubray, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A fixed column, with a moveable illuminating apparatus."—Dated 21st February, 1859.

450. Joseph Sharp Bailey, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 28th July, 1858, for "Improvements in machines for combing wool, &c."—Dated 21st February, 1859.

851. Thomas Restell, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 14th October, 1857, for "Improvements in breech-loading fire-arms, &c."—Dated 21st February, 1859.

852. Jules Joseph Neullies, represented by Armengaud, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 27th December, 1856, for "A vice."—Dated 21st February, 1859.

853. François Joseph Imbs, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Making a kind of soles, and applying them to foot-coverings."—Dated 21st February, 1859.

854. Jean Baptiste Benjamin Laignel, of 33, Rue de la Harpe, Paris, for "A system of canals."—Dated 22nd February, 1859.

855. Philibert Favre, represented by Amouroux, of 333, Boulevart St. Martin, Paris, for "Woven furs with friezed or undulated hair."—Dated 22nd February, 1859.

856. Joseph Reimann, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd February, 1858, for "An improved sewing machine."—Dated 22nd February, 1859.

857. Jean Pierre André, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd October, 1858, for "A system of tiles."—Dated 22nd February, 1859.

858. Charles François Le Page, of 24, Avenue de Clichy, Batignolles, for "A system of smoking pipes."—Dated 22nd February, 1859.

859. Pierre Marie Mercier, of 61, Galerie de Valois, Palais Royal, Paris, for "An apparatus for subduing horses."—Dated 22nd February, 1859.

860. Charles François Mongin, of 11, Rue des Juifs, Paris, a Certificate of Addition to his Patent of 8th January, 1859, for "Manufacture of saws."—Dated 22nd February, 1859.

861. Charles Guillaume Moreau, of 5, Rue Bailleul, Paris, for "A system of trousers."—Dated 22nd February, 1859.

862. Emile Louis François Sauvage, of 63, Avenue des Ternes, commune de Neuilly, for "An apparatus for separating fecal matter."—Dated 22nd February, 1859.

863. Charles Eugène Roger, domiciled at 19, Rue du Bouloi, Hôtel du Rhône, Paris, for "A system of diamonds for cutting glass and mirrors."—Dated 22nd February, 1859.

864. Louis Le Chatelier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 23rd February, 1858, for "Applying fluoric acids to the manufacture of soda and potash."—Dated 22nd February, 1859.

865. Pierre Joachim Dubois, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "A system of transmission applicable to foot lathes."—Dated 22nd February, 1859.

866. Alexis Grellou, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of wove buttons."—Dated 22nd February, 1859.

867. Pierre Ernest Aimont, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 23rd February, 1858, for "A safety indicator for railways."—Dated 22nd February, 1859.

868. Jérome Jean Baptiste Adolphe Pichault, of 35, Rue St. Dominique St. Germain, Hôtel

des Colonies, Paris, a Certificate of Addition to his Patent of 9th November, 1858, for "A system for making good the rupture of wheels of carriages, &c."—Dated 22nd February, 1859.

869. Antoine Ernest Potier, represented by De Bougnoux, of 13, Rue Villedo, Paris, for "A sweeping machine."—Dated 23rd February, 1859.

870. Etienne François Houzelot, of 51, Rue des Portes, Paris, for "Applying niello to silver and gold medals."—Dated 23rd February, 1859.

871. Samuel Nicolson, represented by Basset, of 14, Boulevart Montmartre, Paris, for "Improvements in wooden roads or pavements."—Dated 23rd February, 1859.

872. Auguste Toussaint Ozou de Verrie, of 27, Rue Lamartine, Paris, for "A process for conglomerating coal and burning glance coal."—Dated 23rd February, 1859.

873. Messrs. Gibus, of 40, Rue Beaubourg, Paris, a Certificate of Addition to their Patent of 3rd June, 1857, for "Improvements in silk hats."—Dated 23rd February, 1859.

874. André Jacques Amand Gautier, represented by Brade, of 22, Rue Ste. Anne, Paris, a Certificate of Addition to his Patent of 30th October, 1858, for "Improvements in the manufacture of manure."—Dated 23rd February, 1859.

875. Prudent, Echinard of 45, Rue de Saintonge, Paris, for "An apparatus for registering expenses and income."—Dated 23rd February, 1859.

876. Louis Auguste Leclercq, of 70, Grande Rue Vaugiraud, for "Watch glasses of transparent horn."—Dated 23rd February, 1859.

877. Levavasseur Brothers, of 18, Rue Montmorency, Paris, a Certificate of Addition to his Patent of 24th August, 1854, for "Improvements in moderator lamps, &c."—Dated 23rd February, 1859.

878. Cyprien Louis Philippe Combarieu, of 68, Rue St. Honoré, Paris, for "A machine for making type."—Dated 23rd February, 1859.

879. Henri Noe, of 30, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 20th February, 1857, for "An expansion pocket stereoscope."—Dated 23rd February, 1859.

880. Bernard alias Prévost-Bernard, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of flowers and head ornaments."—Dated 23rd February, 1859.

881. Jean François Legrand, of 79, Rue du Temple, Paris, for "Improvements in gold articles."—Dated 23rd February, 1859.

882. Pierre Patureau, of 6, Rue de Lancry, Paris, for "A washing and dressing table."—Dated 23rd February, 1859.

883. Leroux Brothers, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "An apparatus called twister."—Dated 23rd February, 1859.

884. Antoine Roux-Mollard, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 30th March, 1858, for "A kind of printing with gold and silver colours."—Dated 23rd February, 1859.

885. Théodore Dheruel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in presses for making tiles, bricks, and all ceramic products."—Dated 23rd February, 1859.

886. François Daina, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Condensing steam."—Dated 23rd February, 1859.

887. Louis François Clément, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 8th January, 1859, for "Improvements in the arrangement and construction of chronometers."—Dated 23rd February, 1859.

888. Armand Hyacinthe Ferry, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 15th June, 1858, for "Improvements in the construction of brass instruments."—Dated 23rd February, 1859.

889. Louis Duhamel, of Curçay, département de la Vienne, for "A system of cleaning corn."—Dated 28th February, 1859.

890. Pierre Antoine Carlier, of Grougies, département de l'Aisne, for "A system of harrows with curved rotary teeth which may be cleared whilst at work."—Dated 28th February, 1859.

891. Louis Durot, of Roost-Warendin, département du Nord, for "A clack valve for feeding and letting in steam."—Dated 1st March, 1859.

892. Pierre Goy, of 55, Rue de Bourbon, Lyon, département du Rhône, for "A propeller applicable to navigation and balloons."—Dated 26th February, 1859.

893. Simon Berne, of 19, Rue de la Vierge, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 2nd March, 1858, for "An unravelling machine, &c."—Dated 28th February, 1859.

894. Piaton, Michel, and Co., of 3, Rue de la Quarantine, Lyon, département du Rhône, for "Scouring silks."—Dated 28th February, 1859.

895. Demichel, junr., of La Couronne, département de la Charente, for "Manufacture of gauze-wire for dropping cylinders."—Dated 23rd February, 1859.

896. Jean Jayles, of 64, Route de Bayonne, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 4th August, 1857, for "Refining sugar."—Dated 1st March, 1859.

897. Guillaume Arnaud, of 14 and 16, Rue Maubee, Bordeaux, département de la Gironde, for "A coating for impervious linen."—Dated 2nd March, 1859.

898. Chrétien Chellet, of Mulhouse, département du Haut Rhin, for "A physical instrument, called 'optical photometer.'"—Dated 28th February, 1859.

899. Franc and Co. and Tabourin, of 7, Rue Neuve, Lyon, département du Rhône, a Certificate of Addition to their Patent of 6th August, 1858, for "A violet colour, called 'judicine.'"—Dated 1st March, 1859.

900. Lucien-Antoine Guétat, of St. Fous, Commune de Venissieux, for "Preparing orchal and separating the colouring substances therefrom."—Dated 3rd March, 1859.

901. Miss Brunel-Clément, of 16, Rue Dubois Lyon, département du Rhône, for "A puffing-up petticoat."—Dated 3rd March, 1859.

902. Félix Fontaine, of 18, Rue des Capucins, Lyon, département du Rhône, for "Trimming stuffs."—Dated 3rd March, 1859.

903. Pierre Rondeau, of St. Jean aux Bois, département des Ardennes, for "A chaff-cutter."—Dated 4th March, 1859.

904. Paul Martin, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in apparatus for projecting water, and destined to various purposes."—Dated 23rd February, 1859.

905. Jacques Stamm, of 2, Rue Malher, Paris, a Certificate of Addition to his Patent of 21st January, 1857, for "An apparatus for dividing the light of gas-lamps."—Dated 24th February, 1859.

906. Jean Antoine Victor Burg, of 8 bis, Cité Trévise, Paris, for "A medical dynamometer."—Dated 24th February, 1859.

907. Albert Poncelin, of 60, Rue de Paris, Clamart, a Certificate of Addition to his Patent of 27th December, 1858, for "An apparatus for making seltzer water." — Dated 24th February, 1859.

908. Miss Louisa Yanolik, of 10, Rue des Moineaux, Paris, for "A liquid for the hair."—Dated 24th February, 1859.

909. Edouard Pelletier, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Mineral canvass."—Dated 24th February, 1859.

910. Craf and Wilson, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in drawers and towels (for ladies), whereby they are rendered impervious." — Dated 24th February, 1859.—(English Patent, expiring 14th January, 1873.)

911. Victor Marie Zammaretti, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "A system of doors of ovens and apparatus for the interior of chimneys." — Dated 24th February, 1859.

912. Jean Bisson, of 113, Faubourg du Temple, Paris, for "Caoutchouc musical toys." — Dated 24th February, 1859.

913. Tessié du Motay and Goëgg, represented by Aucante, of 7, Rue Notre Dame de Lorette, Paris, for "Silvering and coppering mirrors and glass."—Dated 24th February, 1859.

914. Achille Nicolas Meuley, of 13, Rue Cadet, Paris, for "A registering apparatus for carriages."—Dated 24th February, 1859.

915. Edmund Elsden Goldsmid, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A coke oven for culinary and other purposes."—Dated 24th February, 1859.



SARDINIA.*

List of Patents of Invention and Certificates of Addition Delivered and Prolonged during the Third and Fourth Quarters of 1858.†

(*Communicated by the Sardinian Government.*)

(For previous List, see No. 514 of this Journal.)

Third Quarter, 1858.

Patents delivered.

1. Giovanni Piatti, of Milan, represented by Luigi Bassini, Turin, for "Improvements in apparatus for compressing air through the direct action of water."—6 years.—Dated 5th June, 1858.

2. Giovanni Bergagna, of Turin, for "A vegetable powder for destroying insects."—3 years.—Dated 5th July, 1858.

3. Francesco Tovo, of Oleggio, Novara, for "An expeditious apparatus for signalling fires."—10 years.—Dated 6th July, 1858.

4. Giuseppe Benati and Luigi Gastaldon, of Turin, for "Improvements in screw-propellers." 15 years.—Dated 10th July, 1858.

5. Edoardo Smalwood, of Turin, represented by Capuccio and Latini, Turin, for "A railway writer, to be used also by blind or paralyzed persons."—9 years.—Dated 21st May, 1858.

6. Sostene Bizot, of Turin, for "An economical machine for making drain-pipes." —3 years.—Dated 24th May, 1858.

7. Celeste Menotti, of Turin, represented by Capuccio and Latini, Turin, for "A new system of tents for soldiers, caravans, &c."—6 years.—Dated 28th May, 1858.

8. Alessandro Salietti and Reynero and Co., of Turin, represented by Capuccio and Latini, Turin, for "An expeditious and economical mode of manufacturing petticoats of elastic fabrics."—2 years.—Dated 1st June, 1858.

9. Carlo Sagey, of Paris, represented by Capuccio and Latini, for "Improvements in processes for treating peat and the hydro-carburetted products contained therein."—10 years.—Dated 29th May, 1858.

10. William Sankey, of London, represented by Luigi Bassini, Turin, for "A universal railway." —2 years.—Dated 22nd June, 1858.

* For the Sardinian Patent Law, see Nos. 233 and 235 of this Journal.

† The Specifications of the above Patents may be consulted in the original languages (Italian or French), or translations of them be had, at the Free Public Library in the Commissioners' Office.

11. Anselmo Spinelli and Giuseppe Schiavi, of Turin, represented by Capuccio and Latini, Turin, for "A motor worked by pyro-nitric gas." —1 year.—Dated 16th June, 1858.

12. Onvrina Bertrand de Sivray, of Paris, represented by Edoardo Cretté, Turin, for "A combined table and bedstead."—15 years.—Dated 25th November, 1857.

13. Giuseppe Westermann, of Sestri Ponente, for "A machine for spinning and twisting silk."—15 years.—Dated 10th May, 1858.

14. Giuseppe Ceruti, of Milan, for "Inodorous closets."—1 year.—Dated 24th May, 1858.

15. Giuseppe Ceruti, of Milan, for "A new system of moveable or fixed inodorous privies."—1 year.—Dated 24th May, 1858.

16. Giuseppe Ceruti, of Milan, for "A gas lamp." —1 year.—Dated 24th May, 1858.

17. Angelo Lue, of Paris, represented by Edoardo Cretté, Turin, for "Rails and wheels with their accessory parts."—3 years.—Dated 21st May, 1858.

18. Michele Theynard, of Grenoble, represented by Antonio Burlet, Turin, for "A bath with a fixed furnace inside and a small steam boiler."—6 years.—Dated 30th June, 1858.

19. Luigi De Medici, of Turin, for "Venetian blinds of woven wood."—3 years.—Dated 9th July, 1858.

20. Antonio Richelmi and Giovanni Rocca, of Genoa, for "A kneading trough with a pressure cylinder inside."—1 year.—Dated 29th July, 1858.

21. Emilio Hubner, of Paris, for "Improvements in machines for working filamentous substances." —1 year.—Dated 31st May, 1858.

22. Giovanni Gilardini, of Turin, for "Covers of parasols of one single piece."—1 year.—Dated 20th July, 1858.

23. Giuseppe Giozza, of Turin, for "A new method of stereotype printing."—6 years.—Dated 19th June, 1858.

24. Giuseppe Vivaldi, of Turin, for "A mode of putting goats and sheep to perambulators."—1 year.—Dated 5th July, 1858.

25. Gaetano Saporiti, of Turin, for "A machine for the expeditious manufacture of building materials."—5 years.—Dated 5th August, 1858.

26. Giorgio Chevillet, of Savona, represented by Capuccio and Latini, Turin, for "A steam turbine."—3 years.—Dated 18th August, 1858.

27. Venanzio Ugazzi, of Varallo, for "A machine for making nails."—1 year.—Dated 30th June, 1858.

28. Arrin William Grover, of Boston, represented by Capuccio and Latini, Turin, for "Improvements in sewing machines."—14 years.—Dated 3rd July, 1858.

29. Vittorio Merighi, of Turin, represented by Capuccio and Latini, Turin, for "Means of preventing dust on railways."—3 years.—Dated 12th July, 1858.

30. Luciano Decoppet, of Liége, represented by Capuccio and Latini, Turin, for "An apparatus for tinning the inside of lead pipes stretched by pressure and tinned whilst being worked."—6 years.—Dated 16th July, 1858.

31. Edoardo Smalwood, of Turin, represented by Capuccio and Latini, Turin, for "Building materials of baked clay or any other substance, to be assembled from all sides for partition walls, pavings, or roofings."—1 year.—Dated 17th July, 1858.

32. Lodovico Farant, of Turin, represented by Edoardo Cretté, Turin, for "A moveable crane with a jointed fly-wheel and vertical rotation applicable to platforms of railways."—10 years.—Dated 23rd June, 1858.

33. Giuseppe Tremeschini, of Vicenza, represented by Capuccio and Latini, Turin, for "Applying thin card-paper in bands to weaving figured stuffs."—6 years.—Dated 21st July, 1858.

34. Pietro Denuelle, of Lyons, represented by Edoardo Cretté, for "A combined regulating float."—3 years.—Dated 29th July, 1858.

35. John Chadwick and Arturo Elliot, of Middleton, represented by Edoardo Cretté, Turin, for "Improvements in machines for working silk."—6 years.—Dated 30th July, 1858.

36. Luigi Durand, of Marseilles, represented by Luigi Bassini, for "A steam generator with circulating water and a large heating surface for locomotives, vessels, &c."—15 years.—Dated 29th May, 1859.

37. Vincenzo Chiara, of Arassa, (Novara), represented by Capuccio and Latini, Turin, for "A new system of wheels for railway carriages."—3 years.—Dated 10th August, 1858.

38. John and Ezra Harlan, Brothers, of London, represented by Capuccio and Latini, Turin, for "A machine for obtaining motive power."—6 years.—Dated 11th August, 1858.

39. Luigi Orlondo and Co., of Genoa, represented by Capuccio and Latini, Turin, for "Portable ventilation forges."—6 years.—Dated 31st August, 1858.

40. Maria Angela Reyna, of Turin, represented by Carlo Reyna, Turin, for "A new system of hot-air stoves, called 'Pyr-Catacleiston.'"—1 year.—Dated 7th September, 1858.

41. Domenico Ghigliano, of Mondovi, for "Making matches without phosphorus."—6 years.—Dated 1st September, 1858.

42. Giacomo Roy, of Tours, France, represented by Capuccio and Latini, Turin, for "A new system of grease boxes and shaft cushions with oblique slides and crank axles, applicable to railway carriages."—12 years.—Dated 13th August, 1858.

43. Mathieu-Chaufour and Co., of Paris, represented by Capuccio and Latini, Turin, for "A system of cylinder boxes and cushions, applicable to railway and other carriages, machines, &c."—1 year.—Dated 14th August, 1858.

44. Leopoldo De Sibille, of Passy, near Paris, represented by Capuccio and Latini, Turin, for "A new process of manufacturing pure saltpetre without refining."—6 years.—Dated 25th August, 1858.

45. Ulisse Puech, of Paris, represented by Luigi Bassini, Turin, for "A self-acting rectilinear hosiery-frame."—15 years.—Dated 14th August, 1858.

Certificate of Addition.

1. Giuseppe Tappaz, of Turin, represented by Capuccio and Latini, Turin, for "Fire-arms with moveable chambers and wedges, and levers."

2. Pietro Guyet, of Turin, represented by Cappuccio and Latini, Turin, for "Improvements in his new system of taps."

3. Eugenio Barsanti and Felice Matteucci, of Florence, for "Obtaining a motive-power by means of an explosive fluid."

Prolonged Patents.

1. Giuseppe Icardi, of Turin, for "A new mechanism for lubricating axles of railway carriages."—2 years.—(Original Patent, 1 year.)

2. Francisco Amadoni, of Genoa, for "Manufacture of esparto paper."—3 years.—(Original Patent, 1 year.)

Disclaimer.

1. Michele Valle, of Genoa, for "A floating pontoon for loading, hoisting vessels, putting on their keels, putting up steam-boilers, &c."

Fourth Quarter, 1858.

Patents Delivered.

1. Agostino and Giuseppe Garneri, Brothers, of Turin, for "A machine for making paving tiles, bricks, &c."—1 year.—Dated 9th September, 1858.

2. Riccardo Westley, of Birmingham, represented by Francisco Tofano, of Turin, for "A new construction of breech-loading fire-arms."—13 years.—Dated 9th September, 1858.—(English Patent, 25th March, 1858.)

3. Cesare Tubino, of Voltri, represented by Capuccio and Latini, Turin, for "Processes for reducing fibrous plants into pulp for the manufacture of paper."—15 years.—Dated 18th September, 1858.

4. Giuseppe Franco, of Turin, for "A mode of deriving water."—5 years.—Dated 16th September, 1858.

5. Claudio Arnaud and Co., of Lyons, represented by Capuccio and Latini, Turin, for "Improvements in rotary steam engines."—1 year.—Dated 1st October, 1858.

6. Giuseppe Franco, of Turin, for "Italian fountains."—15 years.—Dated 21st August, 1858.

7. John Chisholm, of Bermondsey, represented by Capuccio and Latini, Turin, for "Treatment of fecal matter in a liquid or solid state, of infectious and deleterious gases, for the purpose of utilizing the products therefrom, and disinfecting privies, sewers, buildings, &c."—6 years.—Dated 25th August, 1858.

8. Vittorio Merighi, of Paris, represented by Capuccio and Latini, Turin, for "Means of preventing and extinguishing fires in railway trains."—3 years.—Dated 30th August, 1858.

9. Giuseppe Ghersi, of Turin, represented by Capuccio and Latini, Turin, for "A loom for weaving velvet and plush for bonnets in two pieces."—6 years.—Dated 7th September, 1858.

10. Angelo Ponzetti, of Bergamo, for "A new mode of propelling railway trains by means of compressed air-tubes without valves."—3years.—Dated 18th September, 1858.

11. Francesco Cambiaso, of Genoa, for "A circular machine for obtaining looped fabrics without wrong sides and with borders."—10th years."—Dated 25th August, 1858.

12. Lodovico Farant, of Turin, represented by Edoardo Cretté, Turin, for "An endless saw with three blades and a circular, rectilinear, and alternate movement."—10 years.—Dated 2nd July, 1858.

13. Augusto Piard, of Turin, for "A lamp-burner with two currents of air."—2 years.—Dated 22nd October, 1858.

14. Luigi Girard and Giulio Sarti, of Genoa, for "A new system of hydraulic and hydro-pneumatic railways."—15 years.—Dated 24th September, 1858.

15. Prospero Prinont, of Rouen, represented by Edoardo Cretté, Turin, for "New plastic compounds to be used as a coating, or as a building material."—3 years.—Dated 22nd October, 1858.

16. John Leigh, of Manchester, represented by Capuccio and Latini, Turin, for "A new mode of using certain substances for sizing, finishing or preparing cotton, flax, or other thread and woollen tissues."—3 years.—Dated 7th October, 1858.

17. Pasquale Fioravanti, and Capuccio and Latini, of Turin, for "An improved process for hardening and colouring calcareous stones without decomposing the same, so as to resemble marble and any other hard stone."—6 years.—Dated 29th October, 1858.

18. Secondo Ferrero, of Turin, for "Improvements in purifying resinous oil for lighting and other purposes."—1 year.—Dated 13th November, 1858.

19. Giuseppe Vanossi, of Chiavenna, Lombardy, represented by Luigi Bassini, Turin, for "A new system of steam engines for railways and navigation."—6 years.—Dated 12th October, 1858.

20. Christoforo Carenzi, of Turin, for "A new physical and mechanical system of obtaining and modifying oxide and salts of lead."—6 years. Dated 20th November, 1858.

21. Giuseppe Vallod and Co., of Paris, represented by Edoardo Cretté, Turin, for "Lubricating apparatus."—3 years.—Dated 30th September, 1858.

22. Gaetano La Loggia, of Genoa, for "A machine worked by carbonic acid gas, with a continuous or intermediate circulation by means of a system of commutation."—5 years.—Dated 6th October, 1858.

23. Carlo Perratone, of Paris, represented by Giuseppe Oppelt, Turin, for "Iron-spring apparatus."—6 years.—Dated 13th October, 1858.

24. Giuseppe Franco, of Turin, for "Crowned and holed piles."—5 years.—Dated 21st October, 1858.

25. Enrico Bessemer, of London, represented by Francesco Tofano, Turin, for "Improvements in treating anthracite, and in separating heterogeneous substances therefrom."—12 years 7 months. —Dated 5th November, 1858.

26. Luigi Guillemont, of Paris, represented by Luigi Bassini, Turin, for "Street-lamps lighted by schist oil."—15 years.—Dated 19th November, 1858.

27. Eligio Marchand, of Nice, represented by Francesco Tofano, for "An apparatus for preventing boiling liquids from flowing over."—5 years. —Dated 12th August, 1858.

28. Giovanni Bartelli, of Genoa, for "Boats for ponds."—5 years.—Dated 11th November, 1858.

29. Lodovico Faraut, of Turin, represented by Edoardo Cretté, Turin, for "Applying steelyards to cranes."—10 years.—Dated 2nd July, 1858.

30. Beniamino Nadoult de Buffon, of Paris, represented by Edoardo Cretté, Turin, for "Tubular filters."—15 years.—Dated 28th October, 1858.

31. Sebastiano Grandis, of Turin, for "Grooved wedges with cramps for assembling double T rails." —5 years.—Dated 20th November, 1858.

32. Salvatore Caccianino, of Milan, for "A mechanism in locomotives for ascending great gradients on railways."—6 years. — Dated 26th November, 1858.

33. Francesca Anfussi and her Son Lorenzo Pejrano, of Genoa, represented by Luigi Bassini, for "A new apparatus for using flour as a substitute for corn in the manufacture of starch, and for utilizing the paste of flour itself after said operation."—6 years.—Dated 14th December, 1858.

34. Antonio Favier, of Paris, represented by Capuccio and Latini, Turin, for "Improvements in tanning hides."—6 years.—Dated 17th December, 1858.

35. Serafino Mori, of Avigliana, for "Hydraulic cement."—5 years.—Dated 21st December, 1858.

Certificates of Addition.

1. Michele Oddini, of Ovada, represented by Giuseppe Piantelli, Genoa, for "Pumps with collars worked by a gradual pressure."

2. Enrico Monticelli, of Marasi, represented by Capuccio and Latini, Turin, for "An economical mode of mannfacturing starch."

3. Antonio Eyraud, of Marseilles, represented by Pietro Marchese, Turin, for "Extracting oil, fat, or other soluble substances by means of volatile dissolvents."

4. Sebastiano Grandis, of Turin, for "Adding soles to his grooved wedges for assembling rails."

5. Pietro Guyet, of Turin, for "Adding compensating, oscillating, moveable, and fixed valves to his joints of pipes."

6. Giuseppe Deforesta, of Turin, for "Obtaining lighted gas by simultaneously distilling wood, or peat with oil, grease, resin, tar, and fossil coal mixed together in the same retort or separately."

Patents Prolonged.

1. Ferdinando Biondi, of Turin, for "A pocket instrument for summing up numbers of various orders."—2 years.—(Original Patent, 1 year.)

2. Antonio Eyraud, of Marseilles, represented by Pietro Marchese, Turin, for "Extracting oil, fat, or other soluble substances, by means of volatile dissolvents."—2 years.—(Original Patent, 1 year.)

3. Tommaso Agudio, of Turin, for "An hydraulic machine for propelling railway trains on ascents of railways."—2 years.—(Original Patent, 1 year.)

4. Gian Domenico Folco, of Cassine, represented by Luigi Bassini, for "An economical kitchen-stove."—2 years.—(Original Patent, 3 years.)

5. Antonio Richelmi, of Genoa, for "A kneading trough with a pressure cylinder."—14 years.—(Original Patent, 1 year.)

6. Francesco Amadori, of Genca, for "Manufacture of pulp for making paper from esparto."—3 years.—(Original Patent, 1 year.)



SAXONY.†

List of Patents for Inventions Delivered between the 1st January and 31st March, 1859.‡

(*Communicated by the Saxon Government.*)

(For preceding List, the No. 526 of this Journal.)

1. Henry J. Rogers, of Baltimore, represented by Friedrich Georg Wieck, of Leipzig, for "Improvements in the construction of electric telegraph wires or cables."—5 years.—Dated 31st December, 1858.

2. Neander Osar Paul Meister, of Chemnitz, for "A process for washing and scouring loose wool, and for dyeing the same uniformly."— 5 years.—Dated 8th January, 1859.

3. C. S. Lister and Co., of Addingham, represented by Hermann Böhme, Dresden, for "Improvements in preparing wool and other fibrous substances." — 5 years. — Dated 10th January, 1859.

4. Bernhard Zachariä, of Leipzig, for "A registering clock for public carriages."—5 years.—Dated 12th January, 1859.

† For the Saxon Patent Law, see No. 236 of this Journal.
‡ All the published Specifications are deposited in the free Library of the Commissioners of Patents, where translations of the same may be had.

5. Paul Moll, of Brieg (Silesia), for "A printing machine with double plates."—5 years. — Dated 13th January, 1859.

6. Frederick William Mowbray and James Broadley, of Bradford, represented by Prillwitz, Berlin, for "Improvements in weaving and in looms."—5 years.—Dated 13th January, 1859.

7. Carl Krumbholz and Gottfr. Spoerey, of Paris, represented by Friedrich Georg Wieck, Leipzig, for "A new kind of gas-burners."—5 years.—Dated 13th January, 1859.

8. Rudolph Wappenstein, of Manchester, represented by Hermann Böhme, Dresden, for "A process for obtaining artificial whalebone from horn."—5 years.—Dated 20th January, 1859.

9. A. Mönnich and Co., of Chemnitz, for "An improved malt kiln of flat wire."—5 years.—Dated 20th January, 1859.

10. Heinrich Ferdinand Ebert, of Waldenburg, for "A process for obtaining knotless cords of horsehair."—5 years.—Dated 26th June, 1859.

11. Peter Noack, of Camina, near Budissin, for "A process for manufacturing rum and spirits from the residues of breweries."—5 years.—Dated 22nd February, 1859.

12. Julius Winckelmann, of Leipzig, for "A process for manufacturing hardened or steeled copper plates or utensils."—5 years.—Dated 28th February, 1859.

13. Schaeffer and Budenberg, of Magdeburg, for "An apparatus for feeding steam boilers so as to obtain a steady water-gauge."—5 years.—Dated 4th March, 1859.

14. Charles Edmund Wendt and Wilhelm Kubel, of Brunswick, for "A process for removing the bad smell and taste from syrup and molasses of beetroot."—5 years.—Dated 5th March, 1859.

15. Grandis, of Turin, represented by Hermann Böhme, Dresden, for "A construction of grooved joints for assembling rails of railways."—5 years. —Dated 9th March, 1859.

16. Friedrich Dietrich, of Dresden, for "Improvements in their Patent self-acting cotton-cards."—5 years.—Dated 9th March, 1859.

17. André Köchlin and Co., of Mulhouse, represented by Hermann Böhme, Dresden, for "A mountain locomotive." — 5 years. — Dated 12th March, 1859.

18. Gotthelf Reinhold Beck, of Altenberg, for "A new kind of anti-phosphorus matches." — 5 years.—Dated 11th March, 1859.

19. Boyer and Co., of Ludwigshafen, for "A new kind of air heating."—5 years.—Dated 15th March, 1859.

20. Johann Heinrich Wilhelm Daniel Wagner, of Berlin, for "An apparatus for purifying and heating water for steam boilers."—5 years.—Dated 17th March, 1859.

21. Giugnet, of Paris, represented by Albert Ossertag, Dresden, for "A process for obtaining fine green hydrate of oxide of chromium."—5 years.—Dated 17th March, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 5th April, 1859, and each bearing that date.

No. 23,435. Wm. Arthur, of Brooklyn, N. Y., for an "Improved arrangement for extinguishing fires in steam vessels."

"Having thus described the means I employ for obtaining a supply of water, and the mode of operating the same, what I claim as my invention, and desire to secure by Letters Patent, is, the application of the waste water discharged from the air pump raised to such hight as flood the steam vessel with water for the purpose of extinguishing fire, as herein described, instead of discharging it as usual as waste water from the sides of the vessel."

No. 23,436. S. A. Bailey, of New London, Conn., for an "Improved machine for wringing clothes."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment of the cylindrical wooden spring piece *a*, *a*, which is divided in two parts at its centre, each part being slotted from the place of division, as shown in the drawing towards its outer end, the same being covered by rubber cylinder, substantially in the manner and for the purpose specified."

No. 23,437. Abel H. Bartlett, of Spuyten Duyvil, N. Y., for an "Improvement in condensing covers."

"I claim the reservoirs I, I, and R, the pipes F & E, when made and arranged substantially as and for the purposes specified."

No. 23,438. Alexr. Beckers, of New York, N. Y., for an "Apparatus for exhibiting stereoscopic pictures."

"Having thus described the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, 1, placing the endless belt, chain, band, or apron *o*, *o*, in such a position as to form an acute or obtuse angle with the base F of the box or chamber of the apparatus substantially as described. 2, placing the slides or frames holding the pictures in such a position as to form acute or obtuse angles with the endless belt, or with the line of motion, substantially in the manner and for the purpose as specified."

No. 23,439. Asa G. Bill, of Cuyahoga Falls, Ohio, for an "Improvement in metallic piston packing."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the arms F, F¹, on the central hub B, of a piston which act on a ring E, and which are operated by means of a cam G, substantially as and for the purpose set forth."

No. 23,440. Robt. B. Benson, of New York, N. Y., for an "Improvement in reefing sails."

"I have described my invention in connection with a top sail; but I do not wish to limit myself to that use only, as it is evident that the same general principles are also applicable to other sails. I claim reefing the sail from the deck by the use of a supplementary foot rope or its equivalent, in combination with the auxilliary sheet and with the reefing lines, substantially in the manner and for the purposes set forth."

No. 23,441. Wm. Blake, of Boston, Mass., for an "Improvement in gas burners."

"I claim the arrangement of one or more conduit tubes *h*, *h*, in the burner or jet chamber, and with respect to the base of the said burner or jet chamber, and its inlet passage or passages as described. And in combination with the arrangement of the inlet conduit, or conduits, in such manner as to cause the gas to pass around in the expansion jet chamber, in one or more helical currents, I claim an annular or ring exit orifice *i*, whereby the current or currents of gas may be thrown out of the burner in one or more helical streams, so as to equalize the height of the flame, and prevent it from flickering."

No. 23,442. Mannervillette E. D. Brown, of Utica, N.Y., for an "Improved life-boat."

"What I claim as my invention, and desire to secure by Letters Patent is, the construction of a life-boat with three recesses, substantially in the manner and form, and for the purposes as above specifically set forth. Also, in combination with the foregoing, the making a groove in the rudder iron, and a peg in the rudder bolt, as above described, for the purpose as above substantially set forth."

No. 23,443. Wm. R. Brown, of Cleveland, O., for an "Improvement in pumps."

"I am aware that pumps with an oscillating diaphragm, are not new; but what I claim, and desire to secure by Letters Patent of the United States, is:—1. I claim the bi-cuspid valve, constructed substantially as herein described. 2. I claim the arrangement of the bi-cuspid valve, in connection with the oscillating pump, the whole being constructed, arranged, and operated, substantially as set forth, for the purposes described."

No. 23,444. Joel Bryant, of Brooklyn, N. Y., for an "Improvement in hydrants."

"What I herein claim as my invention, and desire to secure by Letters Patent, is, as follows; to wit, first, I claim in the construction and use of hydrants, the shaft A, (whether hollow or solid, naked or encased,) when used for obtaining water, substantially as herein described, and for the purposes set forth. Secondly, and in connection with the said shaft A, I claim the perforated open top and banded chamber valve B, constructed and operating substantially as herein described and for the purposes set forth."

No. 23,445. Cyrus Chambers, jr., of Philadelphia, Pa., for an "Improvement in paper folding machines."

"Having now described the construction and operation of my improvements, I wish it to be distinctly understood, that, I do not desire to confine myself to the precise construction of the devices herein described, as several modifications of, or equivalents to the same, might be substituted, without departing from the main features of the invention; but I claim and desire to secure by Letters Patent, First, the register pins *e* and e^1, so constructed and so attached to a paper folding machine, that they shall retain a position proper for the adjustment of the sheet, and yield by the movement of the latter. Second, adjusting one of the register pins e^1, laterally and longitudinally, independently of the other pin, by means of the slides n^1 and n^2, or their equivalents. Third, adjusting both pins simultaneously, both laterally and longitudinally by the frames X and Y, or their equivalents, the frame X being adjustable in one direction on the frame Y, and the latter together with the frame X being adjustable in another direction on the frame of the machine, or any attachment thereto. Fourth, any convenient number of rods 1, 2, and 3, terminating at one of the folding rollers, the ends of the rods passing into grooves in the said rollers, as and for the purpose specified. Fifth, the adjustable stop Z, with its inner edge of a curved or angular form or otherwise, so constructed, that the end of the folded edge only of the sheet, shall be in contact with the said stop, for the purpose specified. Sixth, the plunger 6, with its adjustable plate 8, in combination with the adjustable plate 9, the said plates being arranged substantially as and for the purpose herein set forth. Seventh, the curved wires 15 and 16, or their equivalents, attached to the machine in any convenient manner, situated under the folding apparatus, and adjacent to the trough, for the purpose specified. Eighth, the combination of an alarm or indicating apparatus with a paper folding machine, when the said indicator is operatad by a sheet folded by the machine. Ninth, causing the sliding board O^1, to move along the trough, with a diminution of friction, as the folded sheets accumulate by means of the springs 4, attached to the said board, and arranged to bear against the wedge-formed or inclined strips 5, substantially as herein set forth, and for the purpose specified."

No. 23,446. Wm. H. Cheetham, jr., of New York, N.Y., for an "Improvement in power looms."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the employment, to contain the shuttles which are inoperative of a frame L, which is constructed to hold the said shuttles, arranged in proper order, in two tiers, and is applied in such a manner in front of either or each set of shuttle boxes of the loom, as to be capable of receiving in one tier, the shuttles which are required to be thrown out of operation, and of supplying from the other tier the proper shuttles to take their places, substantially as herein described. 2nd, the box M, applied and operating in combination with the shuttle frame L, substantially as and for the purposes herein specified. 3rd, the pushers *m*, *m*, *n*, *n*, and *p*, *p*, applied and operating in combination with the shuttle frame and box M, substantially as and for the purpose herein described."

No. 23,447. John B. Christian and Abner Beeler, of Mt. Carroll, Ill., for an "Improvement in pumps."

"What we claim as our invention, and desire to secure by Letters Patent, is, the construction, arrangement, and combination of the pumping cylinders G, G, and cylinders B, B, and I, I, substantially in the manner and for the purpose herein specified."

No. 23,448. Henry Clayton, of Tamaqua, Pa., for an "Improvement in the valve arrangement of steam engines."

"I do not claim the fitting of plates or blocks to the back of a slide valve, when they are intended to operate as cut-offs for using the steam expansively in the cylinder; but what I claim as my invention, and desire to secure by Letters Patent, is, 1st, the employment, in combination with a slide valve of one or more shutters applied and secured thereto, substantially as described, to vary and regulate the area of opening of the port or ports, as and for the purposes herein specified. 2nd, combining the two shutters E, E^1 (when two are employed), with the slide valve by means of two screws G, G^1, one of whose stems passes through the other, which turns in a bearing on the back of the valve, and both of which stems pass through one end of the valve chest, the whole operating substantially as herein described. 3rd, the valve L, with its screwed stem *w*, or its equivalent, and spring *y*, arranged and applied substantially as described, for the purpose herein set forth."

No. 23,449. Levi H. Colborn, of Baltimore, Md., for an "Improvement in polishing rice."

"Having thus fully described my process, what I claim as my invention, and desire to secure by Letters Patent, is, the process of breaking the outer covering and moistening the inner coating of rice, and polishing the same, as herein set forth."

No. 23,450. Jacob A. Conover, of New York, N.Y., for an "Improvement in steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining with the mechanism which connects the governor with the throttle valve, to regulate the admission of steam to the engine, substantially as described, a mechanism substantially such as described, which disconnects the throttle from the governor, to permit it to be closed by an independent power, to shut off the steam from the engine, as described, and for the purpose set forth."

No. 23,451. Caleb Cook, of Hillsborough, N.H., for an "Improved shoe peg machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the discs, as described. 2d, the method of holding the peg wood together by the chain and drum and friction appliance, substantially as described. 3d, the method of holding the peg wood firmly in place by pressing it up against the guide piece D by means of the spring S and the levers and posts, substantially as described. 4th, the method of relieving the upward pressure against D, for the purposes of the feed motion by means of the system of levers *x*, *x*, substantially as shown and described."

No. 23,452. Jacob Creamer and Thos. W. Ricards, of London, Ohio, for an "Improvement in mole plough."

"What we claim as our invention, and desire to secure by Letters Patent, is, the arrangement of the beam (B), screw (H), wheel (*d*), and shaft (S) upon the sliding shoe (A), (*a*, *a*, *b*, *b*,) constructed and operating substantially as described."

No. 23,453. James E. Cronk, of Poughkeepsie, N. Y., for an "Improved pump."

"I do not claim to be the inventor of dipigrams or dipigram pumps; I, therefore, disclaim as such the dipigrams H and I, also the valves J and K, the pipes D and E, the rod F, and the brake or lever G. Claim:—What I claim as my invention, and desire to secure by Letters Patent, is, the peculiar form and arrangement of the dipigrams H and I with the shells B and C, as before described, and the ring A, forming a chamber between them with the discharge therefrom, as before mentioned, and for the uses and purposes herein expressed."

No. 23,454. Ephraim Cushman and John R. Cushman, of Amherst, Mass., for an "Improvement in manufacture of artificial leather."

"Claims:—What we claim as our invention, and desire to secure by Letters Patent as an improvement in machines for the manufacture of artificial leather, is, 1st, holding the felt H up to the roll F, for the purpose substantially herein set forth. 2d, removing the adhering fibers from the surface of the felt H before it reaches the felt washer by means of the scratcher *o*, or its equivalent."

No. 23,455. Chas. Dickinson and Wm. Bellamy, of Newark, N. J., for an "Improved ice pitcher."

"We do not claim, broadly, the making of double walled ice pitchers, nor the interposition of a felt or woolen non-conductor between the walls; but we claim, as an improved article of manufacture, an ice pitcher provided between its walls with a hard non-conductor, so as to protect the walls from indentation or fracture from within or without, while it also assists refrigeration, as herein shown and described."

No. 23,456. James Easterly, of Albany, N. Y., for an "Improvement in grate bars."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the within-described corrugated grate bar, constructed substantially in the manner and for the purpose specified."

No. 23,457. Winthrop B. Fay and Russell W. Collier, of Upton, Mass., for an "Improvement in boot trees."

"We are aware that adjustable lasts and foot pieces of boot trees have been arranged in various ways in order to modify their shape or form so that they may be fitted perfectly in boots, and we do not claim, broadly, such device irrespective of the particular construction and arrangement herein shown and described, for effecting the purpose; but having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the elastic plates B, B, attached to the sides of the foot piece A in connection with the adjustable bars C, C, arranged to operate substantially as and for the purpose herein set forth."

No. 23,458. Fritz Fedderke, of New York, N.Y., for an "Improved billiard table."

"What I claim as new, and desire to secure by Letters Patent, is, constructing a billiard which may be changed from an American into a French billiard, by effecting a perfect continuation of the cushion throughout the whole length of the same by means of cushion pieces D and E, inserted between and fastened to the jaws by a handle N operating upon a forked lever L, latches or bolts R, and springs S, and re-converting the French billiard thus formed into an American billiard by removing the said cushion pieces by the same means, substantially as described."

No. 23,459. Josiah P. Fitch, of New York, N. Y., for an "Improvement in water wheels."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the wheels D, one or more, and gate F, arranged relatively with each other, and placed within a proper case, which is fitted within a penstock or flume A, substantially as and for the purposes set forth."

No. 23,460. Hiram M. Fletcher, of Newport, N. H., for an "Improved clothes frame."

"Having described the construction and mode of operation of my said improvements, what I claim as my invention, and desire to secure by Letters Patent, are, first, the plank A, in combination with the plank B, the bearings M and N, and the sectional shaft C, D, constructed and operating substantially as above described. Second, the sectional shaft C, D, constructed and operating substantially as above described. Third, the reel frame, composed of the parts E, F, F^{1}, F^{11}, F^{111}, G, G^{1}, G^{11}, G^{111}, and H, H^{1}, H^{11}, H^{111}, in combination with the sectional shaft C, D, the plank A, the plank B, the bearings M and N, with their corresponding mortises *m* and *n*, the spring K, the pulley O, and the cord L, constructed and operating substantially as above described."

No. 23,461. Alven K. Gilmore, of Bath, Me., for an "Improvement in mechanism for obtaining rotary motion from reciprocating rectilinear motion."

"Having thus described my invention for connecting a reciprocating rectilinear motion into a vertical one, what I claim is, the combination of the bifurcated slider A, two pulley sectors C, D, their double pawls G, H, (or mechanical equivalents therefor,) and the wheel F, the whole being arranged, connected, applied to one shaft E, and made to operate substantially in manner and for the purpose as herein-before set forth. I also claim, in combination with the pawls G, H, and their disk wheels I, I, the disk-moving mechanism, consisting of the levers *m*, *m*, bent arms *o*, *o*, sliders *p*, *p*, forked arms *s*, *s*, slide rod *t*, and shifting lever *u*, combined and arranged substantially as herein-before explained. I also claim, in combination with each double pawl G, H, and the shaft E, a disk or wheel I, having studs or stops *i*, *k*, and being applied to the shaft and friction wheel *l*, substantially as and for the purpose described."

No. 23,462. John M. Hancock, of Lansing, Iowa, for a "Fire-escape."

"I do not intend to confine myself to the precise mode of winding up the machine, as it may be varied, and, in fact, must be, when the form of the case or piece of furniture in which it is enclosed is changed; nor do I confine myself to the materials of which the basket is composed, as in changing the case the materials of the basket must be changed also. I am aware that the use of the flying pinion, as a retarding power, is not new, therefore, separately considered, I do not claim them; but I do claim, and desire to secure by Letters Patent, the flying pinion "E," "E," in combination with the detent "X," the driving wheel "D," the spring brake "M," and block brake "*y*," as substantially described, and for the purpose set forth. I also claim, in combination with the described piece of mechanism, the table, or its equivalent, as substantially described and for the purpose set forth."

No. 23,463. A. E. Harding, of Middletown, Ohio, for an "Improved ships' propelling apparatus."

"What I claim as new, of my own invention, and desire to secure by Letters Patent, is, 1st, the rollers (g^{1}), arranged and operating substantially as herein described. 2d, I claim the arrangement and combination of the propeller chambers (B, B), air tubes *d*, *d*, openings (*c*), chambers (E, E), pistons (*f*, *h*, *f*, *h*), gates (*j*, *j*), pipe (*p*), and propellers (g, g^{1}), all arranged substantially as herein described, for the purposes set forth."

No. 23,464. Gordis D. Harris, of Fitchburgh, Mass., for an "Improved stump extractor."

"Having thus described my invention, I claim and desire to secure by Letters Patent, as an improved article of manufacture, a stump puller, having a pulley N, and two conical shafts D, E, one shaft D, for winding the chain with a variable speed, the other shaft E, for correspondently winding the rope M, and otherwise constructed as herein shown and described."

No. 23,465. Levy J. Henry, of New York, N. Y., assignor to Daniel Benrimo, of same place, for an "Improvement in rendering friction matches water proof."

"Having thus described my said invention, and shown the benefits resulting therefrom, what I claim as new, and desire to secure by Letters Patent, is, rendering friction matches partially or entirely waterproof, by the application of a melted coating, in the manner and for the purposes substantially as specified."

No. 23,466. Daniel Hughes, of Rochester, N. Y., for "An improved rotary engine."

"What I claim as my invention, and desire to secure by Letters Patent, is, the oscillating shoes G, G^{1}, applied and operating in combination with the oscillating abutments and the rotating piston hub, substantially as and for the purpose herein described. And I also claim the discs N, N^{1}, having openings *g*, *g*, and sockets *d*, *d*, applied, in combination with the rotary piston hub, the cylinder heads and the main shaft, substantially as and for the purposes herein described."

No. 23,467. J. Burrows Hyde, of Newark, N. J., for an "Improvement in treatment of peat for composting."

"What I claim, and wish to secure by Letters Patent, is, the use of peaty matter, as a basis for admixture with other richer manures, when said peaty matter shall have been dried and finely powdered previous to admixture, as set forth."

No. 23,468. J. Burrows Hyde, of Newark, N. J., for an "Improvement in rotating shot and shells."

"What I claim and desire to secure by Letters Patent, is, the use of tangential holes bored from the outer surface into the solid portion of the front end of the shot, for receiving the rotating composition; and I also claim the use of the adjustable tubes or cases of rotating composition."

No. 23,469. Anthony Isky, of Lancaster, Pa., for an "Improvement in extension tables."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the pivoted cross slats F, affixed on each side of the central partition I, in the table frame H, H^1, the double wings B, C, when hinged, so that the wing *c* may be turned over on to the slats F when extended, as also the adjustment and combination of the several parts herein described, and for purpose specified."

No. 23,470. Edmund M. Ivens, of New Orleans, La., for an "Improvement in steam boilers."

"Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of a cylindrical or annular water drum (having a forced circulation) within the flue of an ordinary flue boiler, in the manner and for the purposes set forth."

No. 23,471. Hiram Johnson, of Farmersville, N.Y., for an "Improvement in tanning."

"What I claim as my particular invention, and desire to secure by Letters Patent, is, the use of a solution of quick lime as a tanning ingredient, to be used in connection with any of the tanic acids or tanning ingredients now in general use, not confining myself, however, to the exact proportions, as above specified."

No. 23,472. Wm. Johnson, of Lambertville, N. J., for an "Improved lathe clutch."

"What I claim as my invention, and wish to secure by Letters Patent, is, not the construction or form, or proportion, of all or any of the parts of the chuck herein-before described or mentioned; but the combination of toothed wheels and arms, actuated by a single screw shaft, so as always to present three several points of pressure centrally upon the body to be turned or wrought, substantially as described and set forth."

No. 23,473. Ahron Lewenberg, of New York, N. Y., for an "Improvement in moulds for forming artificial teeth."

"What I claim as my invention, and desire to secure by Letters Patent, is, a divided socket or holder receiving the pins of artificial teeth, so fitted as to be removable from said pins prior to taking the teeth out of the mould, for the purposes and as specified."

No. 23,474. Richd. Lewis, of Charleston, S. C., for an "Improvement in metallic cotton bands."

"I claim, in the above device, plates A, B, with sloots *c*, *d*, projections E, E, opening *f*, legs *g*, *g*, and shoulders *h*, *h*, in combination, constructed, united, and operated in the manner substantially as above described, and for the purpose set forth."

No. 23,475. Richd. Lewis, of Charleston, S. C., for an "Improvement in metallic cotton bands."

"Claim:—I claim, in the above device, plates A, B, opening E, projections *f*, *f*, shoulders *c*, *c*, and *d*, *d*, in combination, constructed, united, and operated in the manner substantially as above described, and for the purpose set forth."

No. 23,476. E. D. Lockwood, of Penfield, N. Y., for an "Improvement in mode of attaching horses to vehicles."

"I am aware that horse collars have been constructed with a breast strap and back strap, arranged similarly to the straps B, C, herein shown, and I do not claim, separately and broadly, said straps as a horse collar; but, having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching the strap B to the thills A, A, by means of the perforated plates *c* and the pins *f*, placed in the recesses *e* of the thills, and having wide and narrow parts 1, 2, substantially as described."

No. 23,477. Matthias Ludlum, of Fair Haven, Vt., for "Improved water-tight doors for marine safes, lockers, &c."

"What is here claimed is, the double door (A, C,) constructed and operating substantially as described, in combination with the outer or surrounding framework (B) and independent interior frame (E), or its equivalent, essentially as and for the purposes set forth."

No. 23,478. Jacob Marx, of N. York, N. Y., for an "Improved refrigerator."

"What I claim as new, and desire to secure by Letters Patent, is, the combination and arrangement of ice chamber A, the gutter D, pipe E, the water tank C, and provision chamber B, substantially as and for the purpose specified."

No. 23,479. Chas. McBurney, of Roxbury, Mass., for an "Improvement in india-rubber soles for boots and shoes."

"I do not claim making a sole for boots and shoes of vulcanized india rubber; neither do I claim attaching such sole to the boot by means of pegs; but what I claim as my invention, and desire to secure by Letters Patent, is, a sole made of vulcanized india rubber, and having the holes for the reception of the pegs formed in the mould in which it is vulcanized, as set forth."

No. 23,480. Wm. McConnell, of Philadelphia, Pa., for an "Improvement in sandals."

"I am aware that clogs have been made with soles made of two separate blocks hinged together, as shown in the English Patent of Jos. Shuller, May 6, 1826, I therefore do not claim, broadly, such a device; neither do I claim a slide for adjusting the distance between the heel and the toe of the sandal; but I limit my claim to, and desire to secure by Letters Patent, a sandal, consisting of three blocks, B, B^1, and B^2 of wood, or other suitable material attached to an elastic metal strip A, when the said blocks are so situated in respect to each other that one shall coincide with the toes, the other with the ball, and the third with the heel of the wearer's foot, as and for the purpose specified."

No. 23,481. O. H. Melendy, of Delhi, Iowa, for an "Improvement in seeding machines."

"I do not claim broadly the employment or use of a reciprocating seed slide E. for they are well known and in common use; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the levers F, H, slides E, G, and projections *g* on the wheel B^1, in connection with the bars I, K, O, P, connected by the links *j*, j^1, the whole being arranged substantially as and for the purpose set forth."

No. 23,482. Gregor Menzel, of Milwaukie, Wis., for an "Improvement in steam boilers."

"I do not claim, irrespective of the arrangement I have described, the employment of ascending and descending tubes may be seen in the withdrawn applications of Thomas Greer, October, 1847, and Thomas E. Warren, July 19, 1852; but the arrangements of tubes and parts therewith connected in the above examples is quite different from mine. I claim, first, the arrangement in an upright cylindrical boiler of a fire box D, and series of ascending tubes E, a smoke box F, a single or double circle of descending tubes G, a flue H, and flue I, in combination with jacket N, without or with horizontal steam dome L, as shown and described. I do not claim, irrespective, a circulation pipe for an upright boiler; but claim the arrangement of my circulation pipes K, which hang loose and inside the cylinder *m*, openings T, and steam dome L, in the manner shown and described."

No. 23,483. Albert H. North, of Hartford, Conn., for an "Improvement in lamps."

"What I claim as my invention, and desire to secure by Letters Patent, is, the rotating plate A, with the elongated scroll teeth, in combination with the vertical gears E, and the vertical actuating gear D, in the manner and for the purpose substantially as herein described."

No. 23,484. Washington Obenchain, of Logansport, Ind., for an "Improved machine for making patterns for cog wheels, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the mode of adjusting the arm E,

vertically by means of screw M, in combination with the upright D, which is also adjustable about a vertical axis, as and for the purposes set forth. 2nd, the track frame F, when adjustable laterally, for the purpose of giving taper to the piece cut. 3rd, the arrangement and devices for adjusting the cutters I, as and for the purposes set forth."

No. 23,485. John K. O'Neil, of Kingston, N. Y., for an "Improvement in pumps."

"I claim the combination and arrangement of the vibratory arms *p*, *o*, rod *q*, stem *m*, guide *n*, and spring *r*, for controlling the valve I, from the top of the well, substantially as described. I also claim constructing the pistons *o*, *o*, with raised rims *w*, *w*, and guiding edges *h*, *h*, upon the heads thereof, in combination with the packing *y*, coiled springs Z, Z, and central disk *u*, arranged in the manner and for the purposes herein set forth."

No. 23,486. John W. Peer, of Troy, N. Y, for an "Improvement in rope machinery."

"What I claim as my invention, and desire to secure by Letters Patent, is, conducting the strands from their bobbins round the exterior of one side of the flyer, and from thence over guide rods *f*, *f*, or their equivalents, to and through a hole or guide *c*, on the opposite side of the flyer, substantially as and for the purpose herein set forth."

No. 23,487. Daniel A. Peirce, of East Greenwich, R. I., for an "Improvement in pencil cases."

"Having thus described the pencil, what I claim as my improvement and desire to secure by Letters Patent, is, I claim constructing the end of the tube F, with a screw thread, and forming the row of teeth therein, in the manner substantially as described and for the purposes herein set forth."

No. 23,488. Wm. L. Potter, of Clifton Park, N.Y., for an "Improvement in the management of machinery for operating corn shellers separately or jointly with a fan or cutters."

"I do not limit myself to the precise construction, arrangement, and proportion of the parts shown in the drawings; nor do I claim, broadly, the employment of a winnower, corn sheller and straw cutter complete in one frame; having now fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is, the arrangement of the fan E, E^1, and the gearing *i*, in relation to the shafts C and I, so as to connect and disconnect the same, for the purpose of allowing either the fan or the cutting apparatus to be operated with the sheller, or the sheller to be worked independently of either, substantially in the manner herein described."

No. 23,489. John Powers, of New York, N.Y., for an "Improved pump."

"Having thus described my improved pump, what I claim as my invention, and desire to secure by Letters Patent, is, arranging two forcing valvular pistons back to back in line with each other, and combining them, by means of a piston rod, or other connection common to both, with the arm of the pump brake, at a point between the two pistons, substantially as herein set forth, so that both may be operated by the same arm of the pump brake. I also claim combining the pump brake with the duplex pump barrel, by means of an air vessel, constructed and located substantially as herein set forth, so that it forms a secure fulcrum for the brake, and affords a passage through it, for the arm of the brake to the piston rod upon which it acts."

No. 23,490. Saml. Pierce, of Troy, N.Y., for an "Improvement in steam-boilers."

"I do not claim as of my invention, the application of air in numerous small jets, by means of perforated tubes in the fire chamber of steam-boilers; nor do I wish to limit my claim to any precise position of the tubes within the fire chamber, so long as they are placed above the fire, to discharge the jets of air among the gases evolved, where they are at an intense heat; nor do I claim the use of hollow stay bolts for connecting tubes or other vessells; nor do I claim the circulation of water to prevent metal from being injured by the action of intense heat; nor do I claim a series of water tubes embodying air tubes, when such series are made to constitute a water table, as shown in the application of the Patent granted 22nd December, 1857, to B. L. Griffiths: but what I do claim as my invention, and desire to secure by Letters Patent, is, the employment of air tubes placed within the fire chamber of a steam boiler, substantially as described in combination with the surrounding water tubes, connected at both ends with the water spaces of the boiler, and connected with the inner air tubes by means of hollow stay bolts when the air and water tubes so combined, are arranged substantially as specified, for the purpose set forth."

No. 23,491. Geo. W. Pittman and Wm. C. Boone, of Bushwick, N. Y., for an "Improvement in machinery for laying rope."

"We do not claim the arrangement of the flyers with their axes in the same line, nor the connection of flyers so arranged; nor do we claim, in combination with such arrangement, applying one of the bobbins without a flyer, like the bobbin C^2; but what we claim as our invention, and desire to secure by Letters Patent, is, the laying and unlaying of the strands c^1, c^2, to forward the twist, as herein described. And we further claim the ring guide i^1 applied in combination with the bobbin C^2 to the nearest flyer, substantially as and for the purpose set forth."

No. 23,492. Thos. H. Pollock and Danl. Bliven, of Greenville, Conn., for an "Improved cheese cutter."

"What we claim as new, and desire to secure by Letters Patent, is, the platform A, being provided with a rim *a* and with projections *j*, in combination with the turntable D, or its equivalent, to operate substantially as and for the purpose specified. And we do also claim, the arrangement of the knife E^*, the cutting edge of which makes an obtuse angle with the rack to which it is attached, and operates in combination with the slots *p* and *o*, substantially in the manner herein specified."

No. 23,493. Ransom S. Potter, of Chicago, Ill., for an "Improvement in rail-splicing chairs."

"I do not claim, broadly, a clamp wedge, nor the form of the chairs; but what I do claim, and desire to secure by Letters Patent, is, a clamp wedge operated by the same bolts as a clamp and as a wedge acting upon each rail equally in combination with the chair guard 6, substantially as shewn and specified."

No. 23,494. Jesse Reed, of Marshfield, Mass., for an "Improved machine for pointing and splitting shoe pegs."

"What I claim as my invention, and desire to secure by Letters Patent, is, first, a traversing carriage M, in combination with a revolving table R, so arranged that after a series of cuts has been made in one direction the table may be revolved 90 degrees preparatory to making the second series of cuts. Second, I claim the device for traversing and returning the carriage, consisting of the following parts, or their substantial equivalents, in combination, viz., the screw shafts U and V, the block X, the lever Z, with its spring C^2 and tripping arrangement f^1, B^2, A^2, the whole operating in the manner substantially as herein set forth. Third, I claim the device for automatically revolving the table R, consisting of the spring *l* and the parts *m*, *n*, *o*, *p*, and *k*, or their equivalents, operating as described. Fourth, I claim the grooving and splitting irons *e* and *g* traversing the block, as set forth, in combination with the holders D^2, or their equivalents, operating in the manner substantially as herein described. Fifth, I claim feeding the block S by means of the continuous revolution of a screw operating through a spring *x*, as described, so that when the block is released the feed is instantly given to it, in the manner substantially as herein set forth."

No. 23,495. Benjn. F. Rice, of Clinton, Mass., for an "Improvement in air engines."

"What I claim as new, and desire to secure by Letters Patent, is, the giving to the plungers or pistons of air engines a rotary motion, for the reasons specified. I also claim, giving to the plungers or pistons of air engines a rotary motion, in combination with the means employed for keeping the entire surfaces of the plungers or pistons continually lubricated, in the manner and form and for the purposes substantially as set forth."

No. 23,496. Andrew Ralston, of West Middletown, Pa., for an "Improvement in bands for binding grain, hemp, &c."

"Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention, and desire to secure by Letters Patent of the United States, is, furnishing cords or straps used for binding grain, hemp, &c., &c., with a T-shaped clasp, as herein described, and for the purpose set forth."

No. 23,497. Silas G. Randall, of Middlebury, Vt., for an "Improvement for keeping air springs supplied with air."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, so combining an air spring and an air

pump, or its equivalent, with a car or carriage, or other moving conveyance, as that the motion of said car, carriage, or other conveyance, shall, through such air supplyer, keep the air springs supplied with air, substantially as herein set forth."

No. 23,498. J. Clinton Ransier, of Lyons, N.Y., for an "Improvement in car couplings."

"Having thus fully described the construction and operation of my improved car coupling and inventions of the same, I lay no claim to bars H and H, bumper plates I, link G (Fig. 1), sill L, nor bolt J as my invention, as the same is now in general use. But what I claim as my invention, and desire to secure by Letters Patent, is, first, is clevis B, in connection with fulcrum E, key bolt D, for the purpose of a connecting link between railroad cars, so constructed and arranged, that said clevis or link will encircle and revolve up and down, and sway to the right and left over the outside of bumper plate (or plates) I, and the body of the bumper, and otherwise arranged and constructed for the purpose as substantially set forth and described in this specification. Second, I also claim revolving arms A, A, or their equivalents, in combination with dog O (as seen in right hand plan (Fig. 1), for the purpose of aiding in casting off the opposite clevis from hook C, in the process of disconnecting or uncoupling; also, for a rest for and in aiding in throwing clevis B (on the same bumper) forward from its upright position, in the process of affecting a coupling, as substantially set forth and described in this specification. Third, I also claim hook C, or its mechanical equivalent, placed on top of the upper bar H, and in rear of the top shoulder of fulcrum E, for the purpose of receiving the curved point of the opposite clevis B, in the process of coupling. I do not intend to confine myself to rod or shaft N, for the purpose of turning dog *o*, against the shoulder of arms A, A, for the purpose of raising the points of said arms in the process, casting off the opposite clevis in the process of uncoupling, as herein described, as other well known modes of screw or lever power can be applied with equal effect."

No. 23,499. Jesse Reed, of Marshfield, Mass., for an "Improved capstan."

"Claim:—I do not claim a single stationary incline or screw thread, for the purpose of fleeting a cable or rope upon a windlass or capstan. But what I do claim as my invention, and desire to secure by Letters Patent, is, the adjustable detached fleeter, operating as set forth. 2nd, I claim the employment of the double inclines *t*, whereby I am enabled to fleet the cable, whatever may be the direction in which the capstan is turned."

No. 23,500. Thos. N. Rooker, of New York, N.Y., for an "Improvement in printers' type cases."

"I claim the herein described method of arranging the compartments of a type case, that is to say, placing at the side of the 'lower case' character, its corresponding 'upper case' character, for the purposes and in the manner substantially as set forth."

No. 23,501. James Sangster and Amos W. Sangster, of Buffalo, N. Y., for an "Improvement in pegging machines."

"What we claim as our invention, and desire to secure by Letters Patent, is, first, the combination of the wheels P and O, the ratchet K, and the peg wood L, with the awl, peg driver, the knife F, and the shoulder J^2, when the same are arranged substantially in the manner herein specified. 2nd, placing the adjustable wheel R in arrangement with those parts which from the subject of the first claim, for the purpose of regulating the distance at which the pegs are to be driven from the edge of the leather or material pegged, substantially as herein set forth."

No. 23,502. Henry Sauerbier, of Newark, N. J., for an "Improved machine for making hoes."

"I do not claim any of the parts of the machine separately; but what I claim, and desire to secure, is, the cam lever A and the dies *c* and *d*, in combination with the lever B, the loose pin 7, and the clamp *e*, constructed and arranged, substantially in the manner and for the purpose herein above specified."

No. 23,503. L. K. Selden, of Haddam, Conn., for an "Improvement in umbrellas."

"What I claim as new, and desire to secure by Letters Patent as a new and improved article of manufacture, is, an umbrella or parasol having its frame constructed of a rim A and stretcher C, formed of arms or bars *a*, a^1, pivoted and connected together, as shown, in connection with the tube B and rod F, arranged as described."

No. 23,504. Wm. W. Shaw, of Troy, N. Y., for a "Rubber-head for lead pencils."

"Having described my invention, I claim as an improved article of manufacture, a head A for lead pencils made of rubber, in the manner herein shown and described."

No. 23,505. Thos. E. Shull, of Millersburgh, Pa., for an "Improvement in breech-loading fire-arm."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination with a fire-arm constructed with a stationary and closed breech or breech piece, and with an opening in the barrel to receive the cartridge of a hinged flap, door, or lid, which opens and closes the cartridge-charging aperture, substantially as and for the purposes set forth. 2nd, the combination with a hinged flap, door, or lid, of a sliding collar or sleeve, so that the operation of sliding the collar back will open the flap door or lid, and the operation of moving it forward will close and lock the same, substantially as and for the purposes set forth."

No. 23,506. Henry T. Sisson, of Providence, R. I., for a "Portfolio."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the barrel A, shaft B, hooks or teeth *b*, *b*, a spring or springs, *d*, *d*, spring latch *f*, and stop *g*, the whole constructed and arranged substantially as and for the purposes herein set forth."

No. 23,507. Alexr. McDonald Sprague, of Mobile, Ala., for an "Improvement in side wheel steamers."

"Having thus described my improvement in the construction of steam boats, what I claim therein as new, and desire to secure by Letters Patent, is, raising the after guards next adjacent to the wheel above the deck and hull of the boat, and also above the forward guard, substantially as described, so as to leave a clear waterway beneath the after guard, and immediately abaft of the wheel for the purpose as set forth."

No. 23,508. W. S. Stetson, of Baltimore, Md., for an "Improvement in harvesters."

"Claim:—I claim giving to the frame H a back and forth motion upon the axle tree B, said frame supporting at its rear end the axis of the driving pinion K, all in the manner and for the purposes herein set forth. I claim the vibrating frame R, connected with the rear end of frame H, and having its center of motion coincident with the axis of pinion K, as set forth. I claim the combination of the shoe X with the vibrating frame R, by means of the hinge bolt *y*, arranged and attached to the rear of said frame, in the manner set forth, by which combination the knife bar is made self-adjustable. I claim connecting the adjusting lever *z*, with the platform C and sliding frame H, as set forth. I claim "horsing" the knife bar over the platform, or in a position at right angles, or nearly so, to the axle B, by the two movements substantially as described."

No. 23,509. H. H. Stimpson, of Boston, Mass., for an "Improvement in cooking ranges."

"Having thus stated my improvements, I shall state my claim as follows:—What I claim as my invention, and desire to have secured to me by Letters Patent, is, the combination of the flanges or projections attached to the side plates of the boiler chambers, with the grate constructed so as to admit air to the fuel from below, and hung so as to allow of its free play, and made narrower than the fire chamber as described, whereby the contraction and expansion of the grate is prevented from injuriously affecting the remaining portions of the range or stove. Second, the use of the sliding covers *q*, *q*, in combination with the top plate, arranged to operate substantially as described."

No. 23,510. Stephen Strung, of Birmingham, Pa., for an "Improvement in manufacture of resin soap."

"What I claim as of my invention, and desire to secure by Letters Patent of the United States, is, the admixture, compounding, and preparing of the ingredients named in the proportions herein specified, and for the purpose set forth."

No. 23,511. Saml. Teague, of Newton, Ohio, for an "Improvement in machine for dressing mill stones."

"I do not claim the sliding frame levers and picks separately considered; but what I claim as my invention, and

desire to secure by Letters Patent, is, the adjustable braces *f*, when combined with the picks *a*, sliding frame A, and levers *l*, constructed and operated in the manner set forth for the purpose specified."

No. 23,512. ALFRED THOMAS, of Howard Iron Works, Pa., for an "Improvement in the manufacture of iron."

"What I claim as my invention, and desire to secure by Letters Patent, is the mixing of charcoal and anthracite metal and forge cinder, in the proportions substantially as herein stated, and working them together in the puddling or boiling process, or in a refinery fire, for the purpose of making a superior quality of iron, as herein stated."

No. 23,513. PELATIAH THOMPSON, of Springfield, Ohio, for an "Improved bedstead."

"Having fully explained the construction and operation of my improved spring bedstead bottom, what I claim therein as new, and desire to secure by Letters Patent, is, the combination of the double series of helical springs *d*, with the removable holder strips E, and series of cross slats *c*, with their steading pins *e*, the whole arranged to operate, as and for the purposes specified. In combination with the series of slats *c*, operating with a series of springs, as specified, and the removable holder strip E, I claim the series of guiding blocks *b*, when two or more are extended down, to prevent the removable strips E, from jumping as herein-before described."

No. 23,514. JONATHAN TROOP, of Sinclairville, N. Y., for an "Improved machine for jointing staves."

"I do not claim, separately, a rotating cutter wheel C, for such device has been previously used for similar or analogous purposes; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is, 1st, the vibrating frame F, provided with the clamp bars *h*, *h*, and stave adjusting bars *m*, and used in connection with the gauge screws a^1, arranged substantially as shown, for the purpose of properly presenting the staves to the cutters. 2nd, the combination of the above-named parts with the rotating cutter wheel C, arranged for joint operation, substantially as and for the purpose set forth."

No. 23,515. WM. C. TURNER, of St. Louis, Mo., for an "Improved syrup charging apparatus."

"What I claim as my invention, and wish to secure by Letters Patent of the United States, is, the construction of a machine, so arranged, that a uniform and definite measure of any liquid may be supplied to bottles or any other vessel, before, during, or after filling the same with soda, mineral, or water surcharged with carbonic acid gas, or other gas, or any other liquid, by means of pump air vessel, safety valve, charging valve, or charger, constructed and applied substantially as described in above specifications.

No. 23,516. ALBERT WARREN, of Jefferson, Ohio, for an "Improvement in machines for cutting soles for boots and shoes."

"What I claim as my invention, and desire to secure by Letters Patent, is, a series of pieces covering the bottom of the box-like C, C, separated by a straight line thro' the centre, together with the series of pieces like B, C, with the knife I, held securely between the crooked edges, and arranged alternately, with a toe to the right and left, and covered by the forms D, D, D, &c. in the manner described, when these devices are combined with the slide P, arranged and operating as herein-before specified."

No. 23,517. NATHL. WATERMAN, of Boston, Mass., for an "Improved egg-pan."

"What I claim, is the new or improved manufacture of baking pan, or arrangement of cups, and a handle at each end of the series, all connected together and cast or founded in one solid piece of metal, and with heat passages between the cups, substantially as herein before stated."

No. 23,518. CLINTON G. WELLS, of Galveston, Texas, for an "Improvement in fastening iron bands on cotton bales."

"What I claim as my invention, is, the application of the washer C, and the mode of fastening the end of the band with it, as mentioned above, and thus expediting the operation of baling and compressing bales of cotton, or merchandize, and retaining them securely in their compressed form."

No. 23,519. GEO. D. WEST, of Brandywine Hundred, Del., assignor to P. W. Neefus, of New York, N.Y., for an "Improvement in the valve motion of oscillating steam engines."

"Having thus fully described my invention, what I claim therein, and desire to secure by Letters Patent, is, the combination of arch *d*, and lever *c*, for the purpose and in the manner substantially as set forth."

No. 23,520. LE ROY S. WHITE, of Waterbury, Conn., for an "Improved burnishing machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, so applying two burnishers in a burnishing machine that they shall operate simultaneously at opposite points at opposite sides of the article or piece of work to be burnished, and burnish both sides at once, and that during such operation each shall serve to support the article or piece of work against the pressure of the other, substantially as herein set forth. 2nd, the combination of the reciprocating and partially-rotating shaft C and yoke D, or their equivalent, and the tool stock E, by means of the rods S, S, the arm *k*, rod *l*, and arm *m*, the whole operating substantially as and for the purposes herein specified. 3rd, the sliding bars *n*, n^1, *p*, applied in combination with the tool stock carriage to operate substantially as and for the purposes herein specified."

No. 23,521. D. A. WOODBURY, of Rochester, N. Y., for an "Improved variable cut-off for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the vibrating yoke D attached to the valve stem, and the rotary cam or wiper wheel E, having arc-formed tappets or wipers *h*, *h*, the whole being applied and operating substantially as herein set forth."

No. 23,522. WM. H. and GEO. YATES, of Chittenango, N. Y., for an "Improved method of sawing shingles from the bolt."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the adjustable bar H and the carriage E, provided with the adjustable dog *e*, connected with the hand lever F, the whole being arranged for joint operation as and for the purpose set forth."

No. 23,523. ANTHONY ZINK, of Lancaster, O., for an "Improvement in trace fastening."

"What I claim as my invention, and desire to secure by Letters Patent, is, a new article of manufacture, to wit, a trace fastening, consisting of the metal ferrule B, provided with a circular groove E running in path of a vertical circle, and two slots *a*, *a*, running at right angles to the groove, and a metal cap F, having two lugs *c*, *d*, on its inner circumference, with a space existing between them and its head, and a plate *b* extending from the circumference of the head some distance into the side of the trace, all as herein set forth."

No. 23,524. JAMES BLACK, of Philadelphia, Pa., assignor to Geo. M. and Wm. S. Worl, and said Geo. M. Worl assignor to Wm. S. Worl aforesaid, for an "Improved steam engine."

"I believe I have described and represented my invention, so as to enable any person skilled in the art to make and use it. I will now state what I desire to secure by Letters Patent, to wit, the arrangement of the cylinder A, hoops F, F, and discs or wheels G, G, when said discs are set eccentrically to an axle which pierces the cylinder transversely, and one end of the piston rod of the cylinder is connected with and operates the hoops, substantially in the manner herein specified."

No. 23,525. LEVI W. BUXTON, of Nashua, N. H., assignor to Josephus Baldwin and L. Kimball, of same place, for an "Improved bedstead fastening."

"Having described my improved device for fastening bedsteads, what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the shoulders *j*, *j*, on the locking or rail piece *e*, with the notched or serrated circular edges *l*, *l*, and conical pin *h*, substantially as and for the purposes set forth. I also claim the combination of the hook e^1 with the tube or friction roller *f*, and stationary pin *g*, substantially as and for the purposes herein described."

No. 23,526. JACOB EDSON, of Boston, Mass., assignor to himself and H. F. Gardner, of same place, for an "Improved carpet sweeper."

"Having thus described my improvements, I shall state my claim as follows:—What I claim as my invention, and

desire to secure by Letters Patent, is, first, holding the rubber tire upon the driving wheel by means of the groove *c*, formed in the said wheel, as described, whereby I am enabled to use a cheaper form of soft or elastic tire than would otherwise be possible, as set forth. Second, the use of the flap or float *h*, arranged and operating as described, for preventing the escape of dust and the wear of the brooms, as set forth. Third, arranging two sets of brooms on their common shaft, in such a manner that they shall cross each other diagonally as described, and for the purposes set forth. Fourth, holding the brooms upon their shaft, by sectional adjustable clamps that reach by or overlap each other, whereby, while every portion of the brooms is securely held, they can be adjusted at pleasure, or new ones inserted. Fifth, hanging the broom shaft in such a manner, by means of the hinge or pivot joint and yielding spring, that the brooms will adapt themselves to any and all inequalities of the surface to be swept, and at the same time perform their work thoroughly."

No. 23,527. Wm. C. Grimes, of Philadelphia, Pa., assignor to himself and R. B. Fitts, of same place, for an "Improved washing machine."

"Claim.—The combined arrangement of the two parallel rock shafts (*e* and *i*) having the wash boards (B and C) attached thereto respectively, and connected together by the flexible apron (D), as described, in combination with the double curved bottom (*m* and *m*[1]) of the box (A), the same operating together in the manner and for the purpose set forth and described."

No. 23,528. Wm. C. Grimes, of Philadelphia, Pa., assignor to himself and R. B. Fitts, of same place, for an "Improved portable steam generator."

"I am aware that a steam generator has been made portable, by making the boiler separable from and adjustable upon a furnace or common stove, and that a feed valve has been operated by a float by the water of the boiler, for the purpose of regulating the air draught through the flues, and also that on annular chamber has been arranged between the casing of the boiler and the fire cylinder, so as to cause the draught air to pass through the said annular chamber before it enters the fire cylinder; therefore I do not claim broadly the making 'a portable steam generator' in several distinct or separable parts, nor the use of a float valve operated by the water of the boiler, so as to regulate the draught of air through the flues. Neither do I claim making an annular chamber around the fire cylinder, so as to operate as part of a flue between the said fire cylinder and the escape flues. But having fully described my improved portable generator, what I claim as new therein, and desire to secure by Letters Patent is,—1st, making the three distinctively specified parts, consisting of the furnace (A), the boiler (B) with its external cylinder (K) and float (V) attached, as described, and the reservoir (H), so as to be readily separable from each other, and readjustable together at any moment, as specified, in the manner and for the purpose set forth and described. 2nd, making the boiler (B) self-supplying (with water) by means of the float (*v*) and its containing cylinder (*k*), arranged in connection with the boiler, as described, the same operating together in combination with the reservoir H, substantially as set forth and described. 3rd, I also claim making the furnace (A) with an annular chamber between the fire cylinder (D), the outside shell (A) and the rings (C and F), when the same are constructed, arranged, and combined together, and with the other parts of the boiler, so as to cause the air which supports the combustion of the fuel in the said cylinder (D) to pass down through the said annular chamber (F) before it enters the said fire cylinder (D), as and for the purpose set forth and described."

No. 23,529. G. A. Silliendahl, of New York, N. Y., assignor to Martha J. Costan, of Washington, D. C., for "Improved pyrotechnic night signals."

"Having thus fully described my improvements on B. Franklin Costan's system of pyrotechnic night signals, and also in the means and appliances for producing the same, what I claim therein as my invention, and desire to secure by Letters Patent, is,—First, enclosing the necessary charges of pyrotechnic composition for producing signal fires within cases, whose sides are composed of thin paper and tin foil, substantially as herein set forth. 2nd, separating the respective layers of composition in the abovementioned cases, by means of thin partitions or disks, substantially as herein set forth. 3rd, charging the aforesaid cases with such proportions of combustible and noncombustible materials as will allow the cases to be all made of the same length, and also enable a socket to be formed at the lower end of each of said cases, substantially as herein set forth. 4th, so proportioning the paper and tin foil portions of the aforesaid cases, that a sufficient portion of the tin foil will project above the stiff sides of each of said cases, to form, when bent inwards, a metallic covering for the top of the same, substantially as herein set forth."

No. 23,530. James H. Mosher, of New York, N. Y., assignor to himself and Anson T. Colt, of same place, for an "Improved steam pressure gauge."

"I do not claim the use of a valve to close the top of the index leg of the gauge, or a valve in the back leg. What I claim as my invention, and desire to secure by Letters Patent, is, so applying the valves E, *c*, in combination with each other, that the gauge may be charged while both legs are open to the atmosphere, as described, and that the air above the mercury in the index tube may be caused to have an ordinary atmospheric pressure, while the mercury is at zero, and there is only the pressure of the atmosphere on the back leg."

No. 23,531. Wm. McNiece, of Conshohocken, Pa., assignor to Walter Cresson, of same place, for an "Improved gauging device attached to hand saws."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent as a new and useful article of manufacture, is, the back saw A, with the folding or adjustable blade B, fitted in its rib or back bar *c*, substantially as described."

No. 23,532. Julius A. Pickering, of Milford, Mass., assignor to Wm. Walker, of same place, for an "Improvement in mode of attaching straps to boot legs."

"I am aware that it is not new to cut the leather or lining of the leg to insert the strap; and this I do not claim. But what I claim as new, and desire to secure by Letters Patent, is, supporting or retaining the loop or upper part of the strap, in the manner and for the purposes substantially as above set forth and described."

No. 23,533. Geo. W. Randall, of Boston, Mass., assignor to himself and Reuben J. Todd, of same place, for an "Improvement in faucets."

"What I claim is, the combination of the auxiliary or inner tap with the outer tap and the conduit case, provided with two or more conduits, the whole being constructed and made to operate together, substantially as specified. I also claim the arrangement of the air passage *p*, so as to discharge, with reference to the discharging end of the inner tap, substantially as described."

No. 23,534. D. J. Wilcoxson, of Milan, Ohio, assignor to himself and Isaac Collins, of Huron, Ohio, for an "Improved ships' steering apparatus."

"Having thus described my improvements in steering apparatus for vessels, what I claim therein as new, and desire to secure by Letters Patent, is, first, the combination of the double yoke with the traversing nuts, arranged substantially as described, for the purposes set forth. Second, arranging the screws, by which the rudder is turned, on either side and below the top of the rudder post, so that in case of accident the tiller may be used to steer the vessel, without its being interfered with by the steering mechanism."

No. 23,535. Cutting B. Wiley, of Adrian, Mich., assignor to himself and Alexr. Stebbins, of Lenawee Co., Mich., for an "Improved hub borer."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is the combination of the sliding cutter heads G, with the adjustable ways or slides E[1], with the nut K, and screw C, the whole being arranged as described, for the purpose set forth."

No. 23,536. Martha J. Costan, of Washington City, D. C., administratrix of the estate of B. Franklin Costan, deceased, for an "Improvement in pyrotechnic night signals."

"That which it is desired to secure by Letters Patent as the invention of the late B. Franklin Costan is, the signalizing of any numeral combination of numerals, or any character or combination of characters, by a methodical exhibition of different pyrotechnic fires, substantially as herein set forth."

Re-issues.

N. Aubin, of Albany, N. Y., for an "Improvement in making illuminating gas."—Patented 8th January, 1856.—Re-issued 5th April, 1859.

"I claim, as of my own invention, the herein described process of making gas for heating or illumination, which consists, first, in mixing materials substantially such as are herein specified. Second, in introducing them into a chamber substantially such as is described, located when the process is going on within retort. Third, in causing the products of distillation of the mixture to pass out of such interior chamber, and then be subjected to a higher degree of heat by passing in contact with the heated surface of the retort itself, substantially as specified, not intending to claim any one step of the process separately, but only the process substantially as herein set forth as a whole."

N. Aubin, of Albany, N. Y., for an "Improvement in gas generators."—Patented 8th January, 1856.—Re-issued 5th April, 1859.

"I do claim, as of my invention, the combination with a gas retort of a removable interior chamber open at bottom, and having such relative shape with regard to the retort, and so located therein, substantially as is specified, and for the purposes herein-before set forth, and this I claim irrespective of the location of the opening through which said removable chamber can be introduced or withdrawn, and either with or without an apparatus for introducing steam into the retort."

N. Aubin, of Albany, N. Y., for an "Improvement in tight joints for gas retorts."—Patented 8th January, 1856.—Re-issued 5th April, 1859.

"I claim of my own invention, and desire to secure by Letters Patent, a joint between a gas retort and its cover, made by fusible metal contained in a groove, into which enters a rim. The joint being substantially such and for the purposes herein-before set forth."

Franklin Peale, of Philadelphia, Pa., for an "Improved tubular elastic valve."—Patented 26th June, 1856.—Re-issued 5th April, 1859.

"Having thus described my improved valves, what I claim as my invention, and desire to secure by Letters Patent, is,—1st, the flexible valves herein described, for the purposes specified. 2nd, the method herein described of adapting the said flexible valves to pump or other tubes of any kind, whether rigid or elastic, and inserting them therein, in the manner set forth and shewn, or in any equivalent mode."

Hiram Tucker, of Cambridgeport, Mass., for an "Improvement in spring bed bottoms."—Improvement added 9th June, 1857.—Patented 3rd July, 1855.—Re-issued 5th April, 1859.

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the within-described spring bed bottom, consisting of the combination—the frame (*a*), slats (*b*), and radial springs (*c*), essentially as described."

Designs.

James Paterson, of Elizabeth, N. J., for a "Design for floor cloth."

"What is claimed by the subscriber, and desired to be secured by Letters Patent of the United States, is, the above described arrangement of ornamental figures forming a design, as shown by the accompanying drawing."

Saml. H. Ransom, of Albany, N. Y., for a "Design for the plates of a stove."

"What I claim as my production, and desire to secure by Letters Patent, is, the combination and arrangement of ornamental figures and forms, represented in the accompanying drawings, forming together the ornamental design for the plates of a stove."

Saml. H. Ransom, of Albany, N. Y., for a "Design for the plates of a cook's stove."

"What I claim as my production, and desire to secure by Letters Patent, is, the combination and arrangement of ornamental figures and forms, represented in the accompanying drawings, forming together the ornamental design for the plates of a cooking stove."

Additional Improvement.

Charles Cox James, of Dayton, Ohio, for an "Improvement in seeding machines."—Patented 15th December, 1857.—Additional Improvement, dated 5th April, 1859.

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of the stationary roof-like screen N, lateral sloping projections e^1, septum O, slides G^1 and G , slotted bars *f*, and shoes I, I, with slide E and trough F, the above part being constructed substantially as described, and used in combination with the features covered by my Patent of Dec. 15th, 1857."

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„ 20	Wednesday	176	83	259— „
„ 21	Thursday*	154	—	154— „
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865. To DAVID MOSELEY, of the Chapel Field Works, Ardwick, in the city of Manchester, Manufacturer of India Rubber and Gutta Percha, for the invention of "Improvements in the manufacture of cards for carding cotton and other fibrous materials."

867. To ROBERT POSTLETHWAITE, of Liverpool, in the county of Lancaster, Saddler, for the invention of "An improvement in harness pads for horses."

869. To GEORGE CHAMPNEY, of Halsham, in the East Riding of the county of York, Farmer, for the invention of "Improvements in reaping machines."

871. And to JOHN GARRETT, of Arundel Place, Haymarket, in the county of Middlesex, Tinman, for the invention of "Improvements in the construction of goblets, jugs, and other like articles."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of April, 1859.

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873. To JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for the invention of "Improvement in the construction and use of fireworks for signals." — A communication from abroad by Martha J. Coston, of the city of Washington, D. C., in the United States of America.

875. To JOHN BINDLEY, of Birmingham, in the county of Warwick, Engineer, and JOSEPH LESTER HINKS, of Birmingham aforesaid, Manufacturer, for the invention of "Improvements in rotatory steam engines and pumps, a portion of which improvements may also be applied to the bearings of shafts or axles, and other rotating bodies."

877. To MATTHEW WHEELDON, of No. 174, Liverpool Road, Burslem, in the county of Stafford, Glass Cutter, for the invention of "An improvement in looking-glasses and mirrors."

879. To MARC ANTONIE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "Improvements in the treatment of mineral phosphates of lime."—A communication from B. de Siebenthal, a person residing in Paris.

881. To WILLIAM HOOPER, of Mitcham, in the county of Surrey, India Rubber Manufacturer, for the invention of "Improvments in insulating and protecting telegraphic conductors."

883. To WILLIAM HENDERSON, of Alderley Edge, in the county of Chester, Chemist, for the invention of "Improvements in treating certain ores and in obtaining products therefrom."

885. And to ELIAS ROBISON HANDCOCK, of No. 23, Norfolk Street, Strand, in the county of Middlesex, Esquire, for the invention of "Improvements in steam and other motive power engines."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of April, 1859.

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887. To EDWARD JOSEPH HUGHES, of the city of Manchester, in the county of Lancaster, Patent Agent, for the invention of "Improvements in the manufacture of woven fabrics."—A communication from abroad by Edward Davies, of Boras, in the kingdom of Sweden.

889. To JAMES HADDEN YOUNG, of No. 66, Great College Street, Camden Town, London, county of Middlesex, for the invention of "Improvements in setting-up (composing) and distributing types."

891. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow,

North Britain, Gentleman, for the invention of "Improvements in the manufacture or production of the ferrocyanide and cyanide of potassium."—A communication from abroad by Jean Victor Lucas, of Paris, in the French empire, Chemist.

893. To JOHN MARTIN, of No. 4, Buckingham Street, Islington, in the county of Middlesex, Manufacturer, for the invention of "Improvements in the materials used in the manufacture of bonnet fronts and ruches."

895. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in steam engines and boilers."—A communication from abroad by Ernest Georges Xavier Boileau, of Paris, in the empire of France.

897. And to ROBERT BROWN, of No. 5, St. Paul's Churchyard, in the city of London, for the invention of "Improvements in stoves and apparatus for warming and ventilating apartments and buildings."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of April, 1859.

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899. To RUDOLPH WAPPENSTEIN, of the city of Manchester, in the county of Lancaster, Medallion Engraver, for the invention of "Improvements in cop tubes, and in machinery or apparatus for placing the same on the spindles used for spinning and doubling fibrous materials."

901. To JAMES ANDERSON, of Liverpool, Lancashire, for the invention of "Improvements in the construction of the furnaces of bakers ovens, for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces."

903. To LEOPOLD WIMMER, of Vienna, in the empire of Austria, Master Baker, for the invention of "An improved preparation for killing beetles."

905. To WILLIAM ROWAN, of the firm of John Rowan and Sons, of Belfast, in the county of Antrim, Engineers, for the invention of "Improvements in spinning flax, hemp, and other fibrous materials."

907. To WILLIAM SOUTHERN CLARK, of Aberdare, in the county of Glamorgan, Mining Engineer, for the invention of "Improved means of loading ships or vessels with coal, and of separating or removing small coal therefrom."

909. And to JOHN MARLAND, of Southport, in the county of Lancaster, for the invention of "An improvement in the manufacture of cop tubes."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of April, 1859.

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913. To GEORGE JOSEPH JOHNSTON, of Ashley, in the county of Cambridge, Machinist, for the invention of "Improvements in drills, for drilling of corn, seeds, and manure."

915. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the manufacture of iron."—A communication from abroad by William Kelly, of Pittsburgh, in the United States of America.

917. To CHARLES BURRELL, of Thetford, in the county of Norfolk, Engineer, for the invention of "Improvements in apparatus for screening corn and seeds."

919. To JAMES CROSSDALE, of Rotherfield Street, Lower Islington, in the county of Middlesex, Boot and Shoe Maker, for the invention of "Certain improvements in boots and shoes."

921. And to RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in the preparation of red dyes."—A communication from abroad by Messrs. Renard Frêres, of Lyons.

On their several petitions, recorded in the Office of the Commissioners on the 12th day of April, 1859.

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923. To RICHARD EMERY, of No. 6, King Street, St. James's Square, in the city of Westminster and county of Middlesex, Gentleman, for the invention of "Certain improvements in carriages for common roads."

925. To HEINRICH ECKHORN, of No. 24, Cranbourne Street, Leicester Square, in the county of Middlesex, and of Bieberich, in the Duchy of Nassau, Manufacturer of Lamps, for the invention of "Improving and regulating the production of light in lamps, to which he gives the name of 'universal lamp regulator.'"

927. To JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the county of Gloucester, for the invention of "An improved construction of fulling machine."

929. To ALFRED RICHARD JOHNSON, of Saint John's Wood, in the county of Middlesex, Gentleman, for the invention of "An instrument for damping, severing, and affixing postage and other like stamps."

931. To WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for the invention of "Improvements in the construction of the axles of railway and other carriages."—A communication from abroad by M. Tenting ainé, of Paris, France.

933. And to JOHN HUGHES, WILLIAM WILLIAMS, and GEORGE LEYSHON, of Brockmoor Works, Brierley Hill, Staffordshire, for the invention of "Improvements in the manufacture of tin and terne plates."

On their several petitions recorded in the Office of the Commissioners on the 13th day of April, 1859.

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937. To HIRAM CRAVEN COULTHARD, Engineer, and JAMES JORDAN, Pattern Maker, both of Blackburn, in the county of Lancaster, for the invention of "Certain improvements in steam engines."

939. To EBENEZER PARTRIDGE, of Stourbridge in the county of Worcester, Engineer and Iron Founder, for the invention of "An improvement in the manufacture of 'pipe' boxes for cart and wagon axles."

941. To EDWARD DOWLING, of Little Queen Street, Holborn, in the county of Middlesex, Scale Maker, for the invention of "Improvements in parts of scales or weighing machines and in balance weights

used for those articles, which are also applicable for other purposes."

943. To ALEXANDER MCDOUGALL, of Manchester, in the county of Lancaster, Chemist, for the invention of "Improvements in coating metallic surfaces."

945. And to STEPHEN BARNWELL, of Coventry, in the county of Warwick, Manufacturer, and ALEXANDER ROLLASON, of Birmingham, in the same county, Chemist, for the invention of "Improvements in the manufacture of umbrellas, parasols, hats or hat covers, caps, capes, coats, mantles, dresses, gloves, and other similar articles."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of April, 1859.

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947. To WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for the invention of "Improvements in the construction of buffers for railway and other carriages, also applicable to other purposes where springs are employed."—A communication from abroad by M. Tenting ainé, of Paris, France.

949. To GEORGE ASHCROFT, of Cardiff, in the county of Glamorgan, Engineer, for the invention of "Improvements in working presses and other hydraulic machines."

951. And to HUGH ADAMS SILVER, of Cornhill and Bishopsgate Street Within, in the city of London, and Silver Town, in the county of Essex, India Rubber Manufacturer, for the invention of "Improvements in insulating wire for electric telegraphs."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of April, 1859.

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953. To THOMAS WHITE, of Edgbaston, near Birmingham, in the county of Warwick, Managing Clerk, for the invention of "An improvement or improvements in frames or stands for holding liquor bottles, pickle jars, cruets and castors, and for holding bottles and vessels generally."

955. To LUKE COLLIER, of Rochdale, in the county of Lancaster, Machine Maker, for Confectionary, for the invention of "An improved feeding apparatus, applicable to grain, loaf sugar, drugs, or other similar materials."

957. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the manufacture of alumina."—A communication from abroad by Mr. Le Chatelier, of Paris.

959. To ALFRED COURAGE, of Bagillt, in the county of Flint, Smelter, for the invention of "An improved method of obtaining the metallic particles contained in fumes or vapours from lead and other smelting work."

961. To JOHN SIDEBOTTOM, of Broadbottom, near Mottram, in the county of Chester, Cotton Spinner and Manufacturer, for the invention of "Improvements in the construction of tubes and partial tubes, and in machinery or apparatus for placing them on the spindles of machines used in spinning, doubling, winding, and warping, also improvements in machinery for making such tubes and partial tubes."

963. To NELSON KENWARD, of Sutton, in the county of Surrey, for the invention of "Improvements in machinery for obtaining motive power by fluids."

965. And to WILLIAM WALKER, of Liverpool, in the county of Lancaster, Patent Agent, for the invention of "Improvements in rocket guns."—A communication from Bridge Town, in the island of Barbadoes, by Thomas Welcome Roys, of the town of Southampton, Long Island, in the state of New York, one of the United States of America, Master Mariner, a citizen of the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 16th day of April, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

997. LUCIUS PHELPS PORTER, of New York, praying for Letters Patent for the invention of "Improvements in knitting machinery,"—a communication from abroad by Joseph R. Kilbourn and Edward E. Kilbourn, of Norfolk, in the county of Litchfield, and state of Connecticut,—was deposited and recorded in the Office of the Commissioners on the 20th day of April, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Notice of Application for Leave to enter a Disclaimer and Memorandum of Alteration.

In the matter of Letters Patent granted to GEORGE EDMOND DONISTHORPE and JOHN WHITEHEAD, bearing date at Westminster, the 8th day of May, 1859.

Notice is hereby given, that the assignees of the above-named Letters Patent have applied to Her Majesty's Attorney General for leave, certified by his fiat and signature, to enter with the Clerk of the Patents of England, a Disclaimer and Memorandum of Alteration of parts of the Specification and Title of the said Letters Patent.—Dated this 23rd day of April, 1859.

WILLIAM CARPMAEL,
Agent for the Petitioners,
No. 24, Southampton Buildings,
Chancery Lane.

Patents Sealed.

List of LETTERS PATENT which passed the Great Seal on the

29th April, 1859.

2418. JAMES WRIGHT, of 21, Bridge Street, Blackfriars, London, county of Middlesex, Civil Engineer, for an invention of "An improved application of machinery to be used as a new motive propelling power."—A communication from a Foreigner residing abroad.—Dated 29th October, 1858.

2419. GEMINIANO ZANNI, of Union Street, Barnet, in the county of Middlesex, for an invention of "Improvements in arranging magneto-electric machines for medical and other purposes."—Dated 29th October, 1858.

2420. ROBERT WILSON CHANDLER, of Bow, in the county of Middlesex, Engineer, and THOMAS OLIVER, of Hatfield, in the county of Hertford, Farmer, for an invention of "Improvements in agricultural apparatuses for ploughing and otherwise operating upon land."—Dated 29th October, 1858.

2422. LESTER JOHN LEWIS, Jeweller, of New Bridge Street, Birmingham, in the county of Warwick, for an invention of "Certain improvements in fastenings for ladies' dresses and other such like purposes, as also in the machinery for manufacturing the same."—Dated 29th October, 1858.

2423. JOHN MORRIS, of Broughton, Salford, in the county of Lancaster, for an invention of "Improvements in the manufacture of rollers or cylinders for printing fabrics."—Dated 29th October, 1858.

2428. FRANCIS WRIGLEY, of Manchester, in the county of Lancaster, Consulting Engineer, for an invention of "An improved self-acting safety coupling for railway and other purposes."—Dated 1st November, 1858.

2431. HENRY HENSON HENSON and WILLIAM FREDERICK HENSON, of No. 38, Parliament Street, in the city of Westminster, for an invention of "Improvements in the manufacture and treatment of starch for domestic purposes."—Dated 1st November, 1858.

2432. JOHN DOBSON and DANIEL PEARCE, of Saint James' Street, in the county of Middlesex, Glass Manufacturers, for an invention of "Improvements in the manufacture of bird-cages."—Dated 1st November, 1858.

2433. JOHN CARISS, of York, Yorkshire, for an invention of "An improved safety switch box and gear."—Dated 1st November, 1858.

2491. JOHN RICHMOND, Engineer and Machinist, of 21, Carlisle Terrace, Fairfield Road, Bow, in the county of Middlesex, JOSEPH QUICK, junr., and ALEXANDER FRASER, Civil Engineers, both of Sumner Street, Southwark, in the county of Surrey, for an invention of "Construction of a meter for measuring water, spirits, or any other fluids."—Dated 8th November, 1858.

2679. CHARLES PARKER, of Dundee, in the county of Forfar, North Britain, Engineer, for an invention of "Improvements in looms for weaving."—Dated 25th November, 1858.

2711. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improved expansion or cut-off gear for steam engines."—Dated 29th November, 1858.

2751. LEVI BISSELL, of the city and state of New York, United States of America, for an invention of "Improvements in trucks for locomotive engines."—Dated 1st December, 1858.

2871. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for manufacturing bullets."—Dated 15th December, 1858.

235. WILLIAM RICHMOND ALEXANDER, of Glasgow, in the county of Lanark, North Britain, Merchant, for an invention of "Improvements in furnaces and apparatus for the manufacture of sugar, and for the consumption or prevention of smoke."—Dated 26th January, 1859.

237. OBED HUSSEY, of Baltimore, United States of America, for an invention of "Improvements in the construction of ships' blocks."—Dated 26th January, 1859.

383. JAMES EVANS, of Tarlton Street, Liverpool, in the county of Lancaster, Coach Builder, for an invention of "An improvement in 'Hansom' cabs." Dated 11th February, 1859.

581. JOHN FRASER, of the town and county of Banff, North Britain, Manager of the Banff Iron Foundry, for an invention of "Improvements in ploughs."—Dated 5th March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 27th April*, 1859, *inclusive.*)

16th April.

928. URIAH SCOTT, of Camden Town, in the county of Middlesex, Engineer, for an invention of "Improvements in metal fittings for furniture."—Dated 18th April, 1856.

26th April.

1091. LÉON LOUIS JARDIN and JOSEPH BLAMOND, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Engravers, for an invention of "Certain improvements in engraving on stone, earthenware, china, and glass, and also in ornamenting the same."—Dated 9th May, 1856.

27th April.

1009. THOMAS RESTELL, of New Kent Road, in the county of Surrey, Chronometer Maker, for an invention of "Improvements in fittings or appendages for doors, and in the means of fixing or attaching the same."—Dated 28th April, 1856.

1020. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention of "Improvements in anchors."—A communication from Louis Frederic François David, of Havre, in the empire of France, Chain Manufacturer.—Dated 29th April, 1856.

1027. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved method of and machinery for polishing the surface of glass, stone, metal, or other materials capable of being polished by friction."—A communication from Albert Broughton, Alexander Lindsay, and John Ruthven Platt, all of New York, in the United States of America."—Dated 30th April, 1856.

1059. Alfred Chadburn, of Sheffield, in the county of York, Optician, for an invention of "An improved construction of pressure gauge."—Dated 5th May, 1856.

1087. Alexander Charles Louis Devaux, of King William Street, in the city of London, Merchant, for an invention of "Improvements in the construction of granaries."—Dated 8th May, 1856.

1211. Charles de Jongh, of Lautenbach, near Guebwiller, in the empire of France, Manufacturer, for an invention of "An improved method of separating and assorting combed fibres of different lengths."—Dated 21st May, 1856.

Erratum in Journal of 22nd April.

842. For "Castellir" read "Castelvi."

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
Bavaria, No. 262.
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France, No. 228.
Greece, No. 325.
Germany, No. 435.
Hanover, No. 231.
India, Nos. 240, 348, and 552.
Mexico, No. 496.
Netherlands, No. 289.
New South Wales, No. 386.
Prussia, Nos. 313 and 329.
Parma, Piacenza, and Guastalla, No. 321.
Portugal, No. 325.
Poland, No. 335.
Roman States, No. 319.
Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 527 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents for Inventions which were Delivered, Prolonged, or became Void during the Month of February, 1859.†

(*Communicated by the Austrian Government.*)

1. Patents Delivered.

1. Wilhelm Leopold Reitzer, of Alt-Ofen, for "An economical and expeditious mode of manufacturing tallow candles and soaps."—1 year.—(Secret).—Dated 4th February, 1859.

2. Joseph Tobias Goldberger, of Berlin, represented by Dr. Carl von Hardtl, Vienna, for "A peculiar preparation and composition of a quintessence of eau de Cologne."—5 years.—(Secret.)—Dated 6th February, 1859.

3. Joseph Rohrbacher, of Ober St. Veit, near Vienna, for "Improvements in omnibus."—2 years.—(Public.)—Dated 9th February, 1859.

4. Johanna Rumpel, of Vienna, for "Sizing felt and silk hats."—1 year.—(Secret.)—Dated 9th February, 1859.

5. Christine Roth, of Pest, for "Vegetable oil for the hair."—2 years.—(Secret).—Dated 9th February, 1859.

6. Carl Thoma and Anton Schlee, of Vienna, for "Improvements in finishing silk articles, whereby they obtain a fine lustre, fast colours, and whereby faded colours are restored."—5 years.—(Secret.)—Dated 9th February, 1859.

7. Bartholomäns Joseph Bottero, of Milan, for "Manufacture of pure hydrogen gas for heating and lighting."—1 year.—(Secret.)—Dated 9th February, 1859.

8. Joseph Schury, of Vienna, for "Improvements in the construction of suspension bridges, whereby they are made more rigid."—1 year.—(Public.)—Dated 11th February, 1859.

9. Jacob Bierstinger, of Vienna, for "So-called seed pomatum."—1 year.—(Secret.)—Dated 11th February, 1859.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

10. Ignay Stowasser, of Vienna, for "A peculiar brass instrument, called 'Bassalt,' uniting the elements of a bombardo, euphonium, and bugle." —5 years. — (Public.) — Dated 11th February, 1859.

11. Ludwig Farant, of Turin, represented by Alexander Bonnefond, Milan, for "A registering crane."—1 year.—(Secret.)—Dated 16th February, 1859.—(Sardinian Patent, 30th September, 1858.)

12. Joseph Tobias Goldberger, of Berlin, represented by Dr. Carl von Hardtl, for "Extracting oil from the roots of herbs, for perfumery."—5 years.—(Secret.)—Dated 16th February, 1859.

13. Joseph Aug. Lagard, of Charleville, France, represented by Georg. Märkl, Vienna, for "A process for obtaining and reducing animal charcoal by means of peculiar furnaces."—1 year.—(Public.)—Dated 17th February, 1859.

14. Franz Johanus, of Ober Dobling, near Vienna, and Eduard Hammer, of Vienna, for "An improved apparatus for earth-borers for sinking shafts and artesian wells."—1 year.—(Secret.)—Dated 17th February, 1859.

15. Johann Bapt. Toselli, of Mantua, for "An apparatus for maintaining railway and other carriages travelling on inclines in a steady motion." —1 year.—(Secret.)—Dated 19th February, 1859.

16. Ludwig Farant, of Latorre, Sardinia, represented by Alexander Bonnefond, Milan, for "A moveable crane, being chiefly applicable to platforms of railways."—1 year.— (Secret.)— Dated 19th February, 1859.—(Sardinian Patent, 30th June, 1858.)

17. Michael Markert, of Vienna, for "A mode of fixing doors in a finished state by means of screws."— 1 year.—(Secret.)— Dated 19th February, 1859.

18. Simon and Joseph Schlesinger, of Alt-Ofen, for "Manufacture of solid furniture."— 1 year.—(Secret.)—Dated 19th February, 1859.

19. Joseph Schonfeld, of Vienna, for "Hydraulic stones of silicate for monumental architecture and sculpture."—1 year.—(Secret.)—Dated 19th February, 1859.

20. Theodosia von Papavera, of Lemberg, for "Improvements in her keyboards for pianofortes." —1 year.—(Public.)—Dated 19th February, 1859.

21. Franz Schmidt, of Pressburg, for "A peculiar construction of clock-movements for striking the hour and quarters."—1 year.—(Secret.) —Dated 16th February, 1859.

22. Samuel Wurm, of Pest, for "Improvements in fur garments, whereby they are made to fit well, and to keep their shape."—1 year.— (Secret.) — Dated 19th February, 1859.

23. Joseph Hirschfeld, of Vienna, for "An improved portable voltaic apparatus for brushes, with a peculiar conducting fluid, called 'electroline.'"—1 year.—(Secret.)—Dated 19th February, 1859.

24. August Klitsch, of Vienna, for "Manufacture of meerschaum snuff-boxes."—1 year.—(Public.)— Dated 21st February, 1859.

25. Friedrich Rodiger, of Vienna, for "Improvements in apparatus for oiling axles of locomotives and railway carriages, as well as moveable parts of machinery."—1 year. — (Public.) — Dated 21st February, 1859.

26. Joseph Tobias Goldberger, of Berlin, represented by Dr. Carl von Hardl, Vienna, for "A peculiar composition and preparation of so-called 'Balsamic olive soap.'"—5 years. — (Secret.) — 23rd February, 1859.

27. Franz Durand and Heinrich Aug. Pradel, of Paris, represented by Georg Märkl, Vienna, for "A self-acting loom for weaving shawls and figured stuffs."—1 year.—(Public.)—Dated 23rd February, 1859.

28. Peter Franz Demonlin and Joseph Cotelle, of Paris, represented by Georg Märkl, Vienna, for "A process for converting heavy coal containing carbureted hydrogen gas into oil for illumination."—1 year. — (Public.) — Dated 23rd February, 1859.

29. Carl Lejolle, of Vienna, for "Improvements in priming and varnishing gilt frames and fillets that can be washed."—1 year.—(Secret.) — Dated 23rd February, 1859.

30. Alexander Athenodor Frécot, of Paris, represented by Anton Martin, Vienna, for "A peculiar machine for obtaining fuel for industry and commerce from peat."—5 years.—(Secret.)— Dated 23rd February, 1859.

31. Anton F. Hack, of Vienna, for "So-called mineral files and grinding wheels for grinding and cutting porcelain, enamel and glass, and for polishing the hardest metals."— 1 year. — (Secret.)— Dated 23rd February, 1859.

32. Anton Kailan, of Nusdorf, near Vienna, for "Obtaining paint from wood and coal tar."— 1 year.—(Secret.)—Dated 24th February, 1859.

33. Adalbert Hueber, of Tauss, Bohemia, for "Improvements in the manufacture of matches, whereby they are prevented from spurting."— 1 year.—(Secret.)—Dated 24th February, 1859.

34. Constantin Legnain, of Cassano d'Adda, for "Obtaining a fire-proof substance resembling marble, from a mixture of different earths."— 3 year.—(Secret.)—Dated 24th February, 1859.

35. Simon M. Bunzl, of Vienna, for "Improvements in the manufacture of solid durable perfumery articles by applying a grease not used till now."— 1 year.—(Secret.)—Dated 26th February, 1859.

36. Georg Aubury and Wilhelm Richard Bridges, of London, represented by Fr. Ed. Schoch, Vienna, for "A moveable apparatus for the manufacture of lighting gas."—2 years.—(Secret.)—Dated 26th February, 1859.

37. Heinrich Wilhelm Jentzsch, of Unter-Meidling and Gregor Windsteig, of Sechshaus, near Vienna, for "An improved washing apparatus of wood and zinc."—3 years.—(Secret.)— Dated 26th February, 1859.

38. Marcus Rocca and Joseph Gentilli, of Triest, for "Obtaining oil from cotton-seeds."— 5 years.—(Public.)—Dated 26th February, 1859.

39. Johann Schmidt, of Gernsbach, Baden, represented by Dr. Joseph Velini, Milan, for "A peculiar furnace for tempering wheel-tyres of railway carriages, rails, axles, and other metal objects,

by means of chemical ingredients." — 1 year. — (Secret.) — Dated 26th February, 1859.

40. Andreas Köchlin and Co., of Mulhouse, France, represented by Cornelius Kasper, of Vienna, for "A mountain locomotive with combined joints and couplings."—1 year.—(Secret.)—Dated 26th February, 1859.

41. Hippolyt Monier, of Paris, represented by Georg Märkl, Vienna, for "Improvements in gas-burners."—1 year.—(Secret.) — Dated 26th February, 1859.

42. Adrian Stockar, of Laibach, for "A peculiar process for consuming the smoke and gases of fires, whereby a great saving in fuel is obtained." —1 year.—(Public.)—Dated 26th February, 1859.

43. Cornelius Kasper, of Vienna, for "Improvements in the construction of capsules, and of a self-acting lighting apparatus."—1 year.—(Secret.) —Dated 26th February, 1859.

44. Johann Christoph Endris, of Vienna, for "Improvements in the manufacture of cartridges for rifles and other fire-arms."—2 years.—(Secret.) —Dated 26th February, 1859.

45. Friedrich Paget, of Vienna, for "Improvements in slide valves of steam engines." — 2 years.—(Public.)—Dated 27th February, 1859.

46. Ludwig Manzi, of Milan, for "A machine for kneading bread."—1 year.—(Public.)—Dated 27th February, 1859.

47. A. Syry, Lizars and Co., of Leipzig, represented by Dr. Joseph Krenzberger, Vienna, for "A peculiar system of gasmeters with a steady water-level." — 2 years. — (Public.)—Dated 28th February, 1859.—(Saxon Patent, 18th December, 1858.)

48. G. Pfannkuche and C. Scheidler, of Vienna, for "Improvements in Chubb's locks."—1 year.—(Public.)—Dated 28th February, 1859.

49. Matthäus Georg Ratsch, of Ofen, for "Improvements in cushions for friction rollers for the main arbors of windmills."—1 year.—(Public.)—Dated 28th February, 1859.

50. Franz Miller and Franz Piko, of Vienna, for "An economical steam apparatus."—1 year.—(Secret.)—Dated 28th February, 1859.

51. Maria Alexander Emil Letestu, of Paris, represented by Georg Märkl, Vienna, for "A peculiar system of pumps, with a new construction of valves and pistons."—1 year.—(Public.)—Dated 28th February, 1859.

52. Caroline Cattaneo, of Milan, for "So-called 'Duchesse petticoats' fastened by means of metal clasps."—1 year.—(Secret.)—Dated 28th February, 1859.

53. Ludwig B. Goldschmid, of Prague, for "A peculiar sewing machine for the manufacture of vamps."—1 year. — (Secret.)— Dated 28th February, 1859.

54. August Lenz, of Vienna, for "Improvements in tempering, polishing, and blueing iron and steel articles."—2 years.—(Public)—Dated 28th February, 1859.

2. Prolonged Patents.

1. Carl Frumann, for "A composition for cutting and grinding marble, granite, and other stones."—6th year.—(Secret).—Dated 19th January, 1854.

2. Tony Petitjean, for "A process for foliating mirrors."—4th year.—(Secret.)—Dated 23rd January, 1856.

3. Franz Meder, for "A composition for multiplying sculpture."—4th year.—(Secret.)—Dated 28th February, 1856.

4. Joseph Schaller, for "Improvements in cylinder blasts."—3rd year.—(Secret.)—Dated 25th January, 1857.

5. Carl Joseph Rospini, for "So-called 'dialitic stereoscopes.'"—3rd year.—(Public.)—Dated 10th February, 1857.

6. Ignaz Hellmer, for an "Apparatus for distilling grease."—3rd year.—(Secret.)—Dated 15th February, 1857.

7. Wenzel Worechowsky, for "Decimal scales." 3rd year.—(Secret.)—Dated 27th March, 1857.

8. Anton Anton, for "Improvements in the mechanism of brass instruments." — 2nd year.— —(Secret.)—Dated 21st January, 1858.

9. Dr. Anton Schmidt, for "Improvements in furnaces for carbonizing peat and brown-coal, and utilizing the tar they contain."—2nd and 3rd years.—(Secret.)—Dated 21st January, 1858.

10. Joseph Adolph Grünwald and Ludwig Seyss (Prince Moritz Montleart assignee), for "A rotary loom."—9th year.—(Public.)—Dated 30th March, 1851.

11. Florian Bitterlich and Lazar Löwy (Cäcilie Löwy and family, assignees), for "Rendering linen, half-linen, and cotton fabrics more solid and durable."—7th year. — (Secret.)—Dated 29th January, 1853.

12. Ferdinand Leitenberger, for "A cylindrical force and lift pump."—7th year.—(Public.)—Dated 29th January, 1853.

13. L. Ruziczka (Benjamin Trenkler assignee), for "So-called 'universal zephyr night-lights.'"—4th year.—(Secret.)—Dated 25th January, 1856.

14. Ferdinand Gruber, for "So called 'economical front shirts.'"—3rd year.—(Public.)—Dated 20th January, 1857.

15. Charles Leyherr, for "An apparatus for combing wool."—3rd and 5th years.—(Public.)—Dated 13th April, 1857.

16. John Chisholm, for "A process for disinfecting cesspools, &c."—3rd year.—(Secret.)—Dated 22nd September, 1858.

17. Johann Christoph Endris, for "Manufacture of metal vices."—3rd year.—(Secret.)—Dated 9th December, 1856.

18. Johann Christoph Endris, for "Obtaining cold by evaporating volatile fluids."—3rd year.—(Secret.)—Dated 6th December, 1856.

19. Walter Westrup (Xav. Spannraft, assignee), for "So-called 'conical mills.'" — 6th year. — (Public.)—Dated 24th January, 1854.

20. Anton Panesch, for "Varnish for boots."—4th year.—(Secret.)—Dated 23rd January, 1856.

21. Markus Anton Franz Mennons, for "A new kind of matches."—2nd year.—(Secret.)—Dated 24th February, 1858.

22. Joseph Schölder, for "A powder for extinguishing fires."—2nd year.—(Secret.)—Dated 15th March, 1858.

23. Johann Baptist Vergne, for "Improvements in screw propellers."—2nd year.—(Public.)—Dated 21st April, 1858.

24. Augustin Cattaneo, for "Improvements in Biancotti's machine for making chocolate."—4th year.—(Secret.)—Dated 3rd February, 1856.

25. Adalbert Patzau, for "Improvements in cigar-cases."—2nd year.—(Public.)—Dated 28th January, 1859.

26. Reinhold Stumpe, for "A machine for controlling spirits."—3rd year.—(Secret.)—Dated 27th May, 1857.

27. Gustav Pfaunkuche (Georg Sigl, assignee), for "Construction of self-lubricators."—6th year.—(Public.)—Dated 2nd February, 1854.

28. Gustav Pfaunkuche (Georg Sigl, assignee), for "Improvements in iron safes and chests."—3rd year.—(Secret.)—Dated 6th February, 1857.

29. Alois Haasmann (Joh. Toscana del Banner, assignee), for "Improvements in the construction of chimney-pots and ventilators."—3rd year.—(Secret.)—Dated 13th February, 1857.

30. Wilhelm Adolph Zempliner, for "Improvements in his Patent self-acting breaks for carriages."—2nd year.—(Public.)—Dated 9th February, 1858.

31. Georg Schreiber, for "A machine for cutting chenille."—5th year.—(Secret.)—Dated 9th February, 1855.

32. Carl Gierke, for "Universal pumps without cylinders."—3rd year.—(Public.)—Dated 28th January, 1857.

33. Jules Guyot, for "A power-loom for making straw-mats for protecting vines."—3rd year.—(Public.)—Dated 27th March, 1857.

34. Maximilian Evrard (Felix Dehaynin, assignee), for "A machine for conglomerating waste of coals, coke, charcoal, and other fuel."—3rd year.(Public.)—Dated 3rd May, 1857.

35. Johann Georg Muschek, for "Improvements in his Patent tooth-paste."—2nd year.—(Secret.)—Dated 22nd February, 1858.

36. Georg Martin, for "A system of constructing bridges for railroads and other roads."—2nd year.—(Public.)—Dated 30th March, 1858.

37. Ludwig Franz N. Ruziczka (Carl Franz Wocelka, assignee), for "A chemical composition for making fine black copying ink."—2nd year.—(Secret.)—Dated 17th March, 1858.

38. Franz S. Raffelsperger, for "Improvements in the manufacture of typometrical lines and compositions in printing."—2nd year.—(Secret.)—Dated 9th March, 1858.

39. Leopold Hahn, for "Improvements in the manufacture of foot coverings."—2nd year.—(Secret.)—Dated 20th April, 1858.

40. Adam Heller (Anton Rösler, assignee), for "A machine for catching muskitoes."—5th year.—(Public.)—Dated 16th February, 1855.

41. Joseph Winter and Emanuel Hofkeller, for "A set of gas-burners."—6th and 7th years.—(Public.)—Dated 6th March, 1854.

42. Richard Albert Tilghmann, for "Treatment of fat and oily substances used in the manufacture of candles, soap, and glycerine."—5th year.—(Secret.)—Dated 27th April, 1855.

43. Carl Gangloff, for "A concentrical shingle-machine."—4th year.—(Public.)—Dated 12th April, 1856.

44. Moriz Diamant, for "Manufacture of paper from the stalks and straw of maize."—3rd year.—(Secret.)—Dated 18th February, 1857.

45. Carl Ludwig Kriegel and Carl Johann Hoschek, for "Water and fire proof cement varnish."—3rd year.—(Secret.)—Dated 18th February, 1857.

46. Georg Märkl (Mitschele Herring, assignee), for "Applying galvanic and magnetic action to combs and brushes."—3rd year.—(Secret.)—Dated 18th February, 1857.

47. Joseph Ergert, for "A mashing process for obtaining alcohol from potatoes."—2nd year.—(Secret.)—Dated 27th March, 1858.

3. Patents which became Void.

1. Wilhelm Felix Aroux, for "A sewing machine."—Dated 19th October, 1857; expired 19th October, 1858.

2. J. Alexandre, for "Manufacture of cases from a mixture of gutta percha and other ingredients."—Dated 6th November, 1857; expired 6th November, 1858.

3. Eduard Schmidt and Friedrich Paget, for "An apparatus applied to cigars for lighting the same."—Dated 11th July, 1857; disclaimed 14th December, 1858.

4. Hugo Bechade, Johann Lacroix, and Johann Leonard, for "A railway break."—Dated 16th December, 1857; expired 16th December, 1858.

5. Carl Endler, for "An improved vat for the expeditious manufacture of vinegar whereby a regular and steady ventilation takes place, and whereby the strongest vinegar may be obtained.'—Dated 18th February, 1857; annulled 3rd February, 1859, in consequence of Dr. Spitaler's prior claims, dated 22nd February, 1849.

6. Johann Christoph Endris, for "Treatment of flax, hemp, and other fibrous substances."—Dated 9th December, 1856; expired 9th December, 1858.

7. Johann Christoph Endris, for "Improvements in steam boilers and apparatus."—Dated 9th December, 1856; expired 9th December, 1858.

8. Johann Christoph Endris, for "Improvements in the manufacture of glass and clay articles."—Dated 9th December, 1856; expired 9th December, 1858.

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

9. Johann Christoph Endris, for "Improvements in the manufacture of iron and steel, consisting of uncarbonizing and refining pig iron."—Dated 24th December, 1856; expired 24th December, 1858.

10. Johann Christoph Endris, for "Improvements in the construction of pumps with two or several cylinders and a common clack-box."—Dated 30th December, 1856; expired 30th December, 1858.

11. Gottfried Bernhardt, for "Improvements in sewing machines."—Dated 12th November, 1857; expired 12th November, 1858.

12. Anton Srba and Joseph Pessina, for "Manufacture of fine solid felt for hats from a mixture of wool and the hair of hares."—Dated 4th January, 1856; expired 4th January, 1859.

13. Johann Weszelowsky, for "Improvements in printing and dyeing linen and cotton with indigo blue by the cold process."—Dated 7th August, 1853; expired 7th August, 1858.

14. Ferdinand Peterson and Co., for "A process for washing or scouring and ungreasing raw wool and for ungreasing spun and woven wool."—Dated 22nd August, 1853; expired 22nd August, 1858.

15. Peter August Kruss, for "Improvements in the manufacture of machine-hats."—Dated 2nd August, 1854; expired 2nd August, 1858.

16. Laurentius Mathias Eiler, for "Locks to be opened by means of magnets."—Dated 14th August, 1854; expired 14th August, 1858.

17. Charles Marie Pouillet, for "A new system of constructing railways."—Dated 7th August, 1855; expired 7th August, 1858.

18. Anton Swaty and Carl Kirchhof, for "An apparatus for preserving and keeping objects."—Dated 21st August, 1855; expired 21st August, 1858.

19. Ludwig Edmund Mayer, for "Improvements in advertisements."—Dated 24th August, 1855; expired 24th August, 1858.

20. Ludwig Edmund Mayer, for "Improvements in apparatus for keeping papers of advertisements."—Dated 24th August, 1855; expired 24th August, 1858.

21. Ludwig Edmund Mayer, for "Machines for washing, drying, and finishing fabrics by grease."—Dated 24th August, 1855; expired 24th August, 1858.

22. Ludwig Edmund Mayer, for "An apparatus for drying linen, &c."—Dated 24th August, 1855; expired 24th August, 1858.

23. Ludwig Edmund Mayer, for "A mangle."—Dated 24th August, 1855; expired 24th August 1858.

24. Andreas Györky, for "An apparatus for propelling and steering vessels."—Dated 28th August, 1855; expired 28th August, 1858.

25. Thomas Stregzek, for "Improvements in seals and stamps with raised and intaglio ornaments and letters."—Dated 2nd August, 1856; expired 2nd August, 1858.

26. Carl Fischer, for "Moveable economical kitchen ranges."—Dated 11th August, 1856; expired 11th August, 1858.

27. Andreas Fröhlich and Alexander Gibon, for "Apparatus for saving fuel and other expenses in the treatment of metals."—Dated 11th August, 1856; expired 11th August, 1858.

28. Paul Pechiné and Joseph Colas, for "Apparatus for drying and burning tiles, bricks, water-pipes, &c."—Dated 11th August, 1856; expired 11th August, 1858.

29. Michael Riss, for "A peculiar process for manufacturing lighting-gas."—Dated 16th August, 1856; expired 16th August, 1858.

30. Friedrich Aschermann (Philipp Wertheimber, assignee), for "Manufacture of paraffine candles from peat, pit-coal and brown-coal, bituminous lime, and schist, &c."—Dated 16th August, 1856; expired 16th August, 1858.

31. Alexander Laurent, for "Riveted, nailed, and glued leather straps for mills, factories, &c."—Dated 1st August, 1857; expiried 1st August, 1858.

32. Alexander Laurent, for "Rolled leather cords."—Dated 1st August, 1857; expired 1st August, 1858.

33. Anton Hausner, for "Improvements in paper for documents."—Dated 3rd August, 1857; expired 3rd August, 1858.

34. Ignaz Pollak, for "Improvements in purifying alcoholic liquids."—Dated 7th August, 1857; expired 7th August, 1858.

35. Rudolph Girtler, for "Apparatus for superheating steam."—Dated 12th August, 1857; expired 12th August, 1858.

36. Dr. Adolph Sacks, for "Improvements in making and fixing teeth without crotchets."—Dated 12th August, 1857; expired 12th August, 1858.

37. Henry Emil Bour and Salomon Sturm, for "An improved machine for grinding convergent and divergent lenses."—Dated 12th August, 1857; expired 12th August, 1858.

38. Simon Deutsch, for "An insoluble glue for joiners' works."—Dated 12th August, 1857; expired 12th August, 1858.

39. Carl Gerster and Ferdinand Dolainszky, for "A peculiar substance for making vessels for all kinds of liquids, and especially for beer and spirits."—Dated 12th August, 1857; expired 12th August, 1858.

40. Mayer Besch, for "Cementing measures for liquids."—Dated 15th August, 1857; expired 15th August, 1858.

41. Johann Keusch, for "Improvements in his patent Kremser vine-scissors."—Dated 17th August, 1857; expired 17th August, 1858.

42. Liborius Burian, for "Manufacture of bracelets and rings of tortoise-shell and horn."—Dated 17th August, 1857; expired 17th August, 1858.

43. Anton Predeval, for "Improvements in wigs, &c."—Dated 18th August, 1857; expired 18th August, 1858.

44. Johann Mayer, for "A peculiar construction of forks for economical kitchen-ranges."—Dated 26th August, 1857; expired 26th August, 1858.

45. Adolph Kappeller, for "An apparatus for regulating the outlets in Jouval's turbines."—Dated 26th August, 1857; expired 26th August, 1858.

46. Moses Haym Picciotto, for "Improvements in the permanent way of railroads."—Dated 26th August, 1857; expired 26th August, 1858.

47. Moses Haym Picciotto, for "Manufacture of elastic substances to be used in railways, and for other purposes."—Dated 26th August, 1857: expired 26th August, 1858.

48. Pierre Dugué, for "A machine for cleaning and crushing corn."—Dated 27th August, 1857; expired 27th August, 1858.

49. Eduard Mack, for "A peculiar liquid for impregnating wood so as to protect it from rot, and to make it burn slowly and without flame."—Dated 27th August, 1857; expired 27th August, 1858.

50. Carl Winternitz and Joh. Bichler, for "Obtaining transparent printings."—Dated 28th August, 1857; expired 28th August, 1858.

51. Joseph Hensler (Andreas Schrabek, assignee), for "Manufacture of so-called 'stone soap.'"—Dated 22nd September, 1846; expired 22nd September, 1858.

52. Franz Klein and Brothers, for "Improvements in the manufacture of joined plates of rails of wrought iron."—Dated 1st September, 1848; expired 1st September, 1858.

53. Joseph Daninger, for "An horizontal windmill."—Dated 2nd September, 1850; expired 2nd September, 1858.

54. Thaddäus Hassmann and August Collete, for "Improvements in the manufacture of lake, varnish, lithographic and printing ink."—Dated 24th September, 1852; expired 24th September, 1858.

55. Wenzel Reichelt, for "A travelling armchair which may be also used as a bed."—Dated 22nd September, 1856; expired 22nd September, 1858.

56. Franz Michalek, for "A machine for planing straight and hollow metals."—Dated 20th January, 1857; expired 20th January, 1859.

57. Luise Boerkel, for "A machine for cutting French beans."—Dated 11th December, 1857; expired 11th December, 1858.

58. Johann Maria August Eugen Fabart, for "An apparatus for weaving India shawls."—Dated 2nd February, 1858; expired 2nd February, 1859.

BELGIUM.*

List of Patents of Invention Delivered on the 14th April, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 553 of this Journal.)

1. A. Graf, of Liege, for "A kind of travelling trunk."—Dated 16th March, 1859.
2. P. A. Pontierre and A. R. A. Lagant, of Brussels, for an imported invention of "A system of railways without wooden sleepers, and with chairs and cast-iron wedges."—Dated 1st April, 1859.—(French Patent, 20th January, 1859.)
3. F. Bastens, represented by Mrs. S. Paridaens, of Brussels, for "A glass Venetian blind ventilator with a moving mechanism."—Dated 1st April, 1859.
4. T. Bailey, represented by H. Biebuyck, of Brussels, for an imported invention of "A mechanical movement, applicable to loading fire-arms and to other purposes."—Dated 1st April, 1859.—(French Patent, 21st March, 1859.)
5. A. M. Herland, represented by A. Crovy, of Brussels, a Patent of Improvement for "Improvements in his apparatus for mounting straps."—Dated 1st April, 1859.—(Original Patent, 30th August, 1858.)
6. J. V. Lucas, represented by A. Crovy, for an imported invention of "Preparing prussiate of potash and cyanide of potassium."—Dated 1st April, 1859.—(French Patent, 29th March, 1859.)
7. A. Cheval, of Tournai, for "A machine for cutting tobacco."—Dated 4th April, 1859.
8. C. Carteron, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A trap for catching moles."—Dated 2nd April, 1859.—(French Patent, 24th November, 1858.)
9. J. B. Pieux Aubert, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A machine for making wire strands."—Dated 2nd April, 1859.—(French Patent, 21st September, 1858.)
10. F. Ch. Bierlin, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A blast for forges."—Dated 2nd April, 1859.—(French Patent, 14th January, 1859.)

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* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

11. J. P. Lucet, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A horse-gin for tanning-works."—Dated 2nd April, 1859.—(French Patent, 4th January, 1859.)

12. N. Rave, of Cureghem-lez-Bruxelles, a Patent of Improvement for "Additions to his chemical product, called 'Alkal-oxide.'"—Dated 4th April, 1859.—(Original Patent, 23rd March, 1858.)

13. A. Perier and L. Possoz, represented by X. Raclot, of Brussels, a Patent of Improvement for "Additions to their process for manufacturing sugar."—Dated 4th April, 1859.—(Original Patent, 1st March, 1858.)

14. H. J. Newcombe, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in apparatus for heating and ventilating houses, drying-kilns, wash-houses, &c."—Dated 4th April, 1859.—(English Patent, 31st January, 1859.)

15. T. J. G. Steppe, represented by D. de Vos-Verraert, of Brussels, a Patent of Improvement for "Improvements in his lace of coloured thread."—Dated 4th April, 1859.—(Original Patent, 20th December, 1858.

16. J. Desmet-Séant, represented by D. de Vos-Verraert, of Brussels, for "Improvements in pistons of brass instruments."—Dated 4th April, 1859.

17. F. Dumont-Lamarche, of Liege, for "A system of lighting by means of the atmosphere and lighting fluids."—Dated 5th April, 1859.

18. C. F. Mertz, of Brussels, for "A curtain-frame without counter-weights."—Dated 5th April, 1859.

19. F. Verhalle, of Ruysselede, for "An apparatus applicable to churns."—Dated 7th April, 1859.

20. A. Jansen, of Brussels, for "Improvements in Lefaucheux's revolvers."—Dated 7th April, 1859.



HANOVER.*

List of Patents of Invention Delivered between the 1st January and 31st March, 1859.

(*Communicated by the Hanoverian Government.*)

(For previous List, see No. 531 of this Journal.)

1. J. G. Schavekaver, of Rüsford, for "A machine for scutching flax."—5 years.—Dated 24th January, 1859.

2. Sebastian Grandis, of Turin, for "A mode of assembling rails on railways."—5 years.—Dated 31st January, 1859.

3. Ed. Schmidt, of Vienna, for "Coating electric telegraphic wires by means of folded or plaited fibres or wire."—5 years.—Dated 4th February, 1859.

4. G. Bodensiek, of Linden, for "An apparatus for recovering the sulphur contained in the soda residues by the introduction of gaseous muriatic acid."—5 years.—Dated 17th February, 1859.

5. E. Guignet, of Paris, for "Manufacture of green colours of chromium."—5 years.—Dated 4th March, 1859.

6. H. W. Wimshurst, and T. Trueman, of London, for "A machine for obtaining plates from metal cylinders by means of a spiral action."—5 years.—Dated 7th March, 1859.

7. Mrs. Jolibois, née Thomas Poulain, of Dijon, for "An apparatus for expeditiously cooling the wort of beer."—5 years.—Dated 7th March, 1859.

8. F. J. Foncon, of Paris, for "A smoke-consuming fire-place."—5 years.—Dated 18th March, 1859.

9. C. Kessler, of Greisswald, for "A valve apparatus worked by electro-magnetic power for the distribution of steam in engines without rotary motion, applicable to the direct working of hammers, pile-drivers, and pumps."—5 years.—Dated 26th March, 1859.

10. F. Wesch, of Nordsohl, near Stadthagen, for "A kiln for burning grey tiles."—5 years.—Dated 29th March, 1859.

11. W. von Weyhe, of Hanover, for "Chemical matches."—5 years.—Dated 29th March, 1859.

12. J. H. A. Koch, of Freyburg on the Elbe, for "Ink for metal pens."—5 years.—Dated 31st March, 1859.

13. John Eason, of London, for "Improvements in apparatus for tanning, dyeing, and extracting vegetable, animal, and mineral substances."—5 years.—Dated 31st March, 1859.

14. J. H. W. Wagner, of Paris, for "An apparatus for cleaning steam-boilers, for feeding the same, and for simultaneously warming the feeding water."—5 years.—Dated 29th March, 1859.

* For the Hanoverian Patent Law, see No. 231 of this Journal.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

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PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.

MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.

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STEAM ENGINES.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 556. TUESDAY, MAY 3, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

2910. JAMES RONALD, of Liverpool, in the county of Lancaster, Merchant, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improved machine for the direct spinning of hemp, flax, and other like fibrous materials."

As set forth in his petition, recorded in the said office on the 20th day of December, 1858.

2917. And WILLIAM SPEAKMAN YATES, of Leeds, in the county of York, Brush Maker, has given the like notice in respect of the invention of "Machinery or apparatus for dragging bristles and drawing hair and vegetable fibre."

As set forth in his petition, recorded in the said office on the 21st day of December, 1858.

2926. And EDWARD THOMAS DUNN, of Hammersmith, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improved fabrics suitable for the covering of floors, walls, and other like purposes."

As set forth in his petition, recorded in the said office on the 22nd day of December, 1858.

2933. And JAMES RONALD, of Liverpool, in the county of Lancaster, Merchant, has given the like notice in respect of the invention of "Improvements in, and machinery for, the manufacture of 'hard-topped' and 'soft-laid' twine 'mill-banding' strands for ropes and other purposes, and cordage generally, from hemp, flax, cotton, and other like fibrous material."

As set forth in his petition, recorded in the said office on the 23rd day of December, 1858.

2945. And DICKINSON EDLESTON, of Halifax, in the county of York, Dyer and Finisher, has given the like notice in respect of the invention of "Improvements in preparing and finishing textile fabrics, and in the means or apparatus employed therein."

2946. And JOHN RAILTON, of Blackburn, in the county of Lancaster, Machine Maker, and SETH LANG, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in looms."

As set forth in their respective petitions, both recorded in the said office on the 24th day of December, 1858.

2956. And JOSEPH SMETHURST, of the firm of Messieurs Martin and Smethurst, of Guide Bridge, in the county of Lancaster, Engineers, has given the like notice in respect of the invention of "Certain improvements in metallic pistons."

2960. And JOHN DAVIES, of Liverpool, in the county of Lancaster, Provision Merchant, has given the like notice in respect of the invention of "An improved portable self gas generating lamp."—A communication from James Lawrence Butler, resident at Brooklin, in the state of New York, one of the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 27th day of December, 1858.

2965. And BENJAMIN BROWNE, of No. 52, King William Street, London Bridge, E.C., Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Certain improvements in the manufacture of boots and shoes or other coverings for the feet, and in the mode or method of uniting the same or parts thereof."—A communication.

2971. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in

the manufacture of boots and shoes or other coverings for the feet."—A communication.

As set forth in their respective petitions, both recorded in the said office on the 28th day of December, 1858.

2994. And WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Engineers, has given the like notice in respect of the invention of "Improvements in apparatuses for converting reciprocating into rotary motion."—A communication from G. Bancker, residing in New York.

As set forth in his petition, recorded in the said office on the 30th day of December, 1858.

2999. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture or production of boots and shoes or other coverings for the feet, and in machinery and apparatus employed in such manufacture."—A communication.

3003. And JOHN LEES, of Park Bridge, near Ashton-under-Lyne, in the county of Lancaster, Roller Maker, and WILLIAM HEAP, of Ashton-under-Lyne aforesaid, Tool Maker, have given the like notice in respect of the invention of "Improvements in machinery for punching square holes in the ends of rollers and other articles."

3006. And LOUIS A. NORMANDY, junr., of 67, Judd Street, London, has given the like notice in respect of the invention of "A new system of shaft tugs."—A communication.

As set forth in their respective petitions, all recorded in the said office on the 31st day of December, 1858.

14. And MONTAGUE WIGZELL, of Friar's Green, Exeter, in the county of Devon, has given the like notice in respect of the invention of "An improved form of nail or driving article."

As set forth in his petition, recorded in the said office on the 1st day of January, 1859.

37. And FREDERICK CLARK, of King Street, Bloomsbury, in the county of Middlesex, Turner, has given the like notice in respect of the invention of "Improvements in connecting knobs and handles to the spindles of locks and latches and other articles of a like nature."

As set forth in his petition, recorded in the said office on the 5th day of January, 1859.

73. And LOUIS A. NORMANDY, junr., of 67, Judd Street, London, has given the like notice in respect of the invention of "Improvements in the process of distilling and clarifying resinous substances."—A communication from E. Dromart, D. Dusillol, and A. Dusillol, of Préchac, département de la Gironde, in the empire of France.

As set forth in his petition, recorded in the said office on the 10th day of January, 1859.

133. And WILLIAM BETTS, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of capsules, and in the apparatus to be employed therein."

As set forth in his petition, recorded in the said office on the 15th day of January, 1859.

154. And GEORGE COLLIER and JOHN COLLIER, both of Halifax, in the county of York, have given the like notice in respect of the invention of "Improvements in means or apparatus for washing and drying wool and other fibres, part of which improvements is also applicable for other purposes where steam, hot water, or other fluids are required to be conveyed under pressure through moveable connections."

As set forth in their petition, recorded in the said office on the 17th day of January, 1859.

202. And BENJAMIN TEMPLAR, of the city and county of Bristol, Dyer, has given the like notice in respect of the invention of "Improvements in umbrellas and parasols."

As set forth in his petition, recorded in the said office on the 22nd day of January, 1859.

238. And DAVID GRAHAM, of the firm of Graham, West, and Company, of Wapping, in the county of Middlesex, Millwrights and Engineers, has given the like notice in respect of the invention of "An improved method of driving centrifugal machines."—A communication from T. Hanning, residing in the Mauritius.

242. And JAMES KERR, of No. 17, Bedford Terrace, Trinity Square, Southwark, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of revolving fire-arms."

As set forth in their respective petitions, both recorded in the said office on the 26th day of January, 1859.

560. And HENRY BROWN, of the firm of Henry Brown and Company, Woollen Manufacturers, of Galashiels, in the county of Selkirk, Scotland, has given the like notice in respect of the invention of "Improvements in machinery for cutting and finishing the surfaces of woollen and other fabrics."

As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

641. And RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, has given the like notice in respect of the invention of "An improved method of treating wool and other fibres in order to form threads."—A communication from Messieurs Tavernier and Vouillon, residing in Paris.

As set forth in his petition, recorded in the said office on the 14th day of March, 1859.

651. And GEORGE BELL GALLOWAY, of Newcastle-on-Tyne, in the county of Northumberland, has given the like notice in respect of the invention of "Improvements upon and in connection with his former patents, and in the manufacture of fuel, and working steam-engines more economically."

As set forth in his petition, recorded in the said office on the 15th day of March, 1859.

680. And ALEXANDER MEIN, Glass Bottle Maker, at Saint Rollox, Glasgow, in the county of Lanark,

has given the like notice in respect of the invention of "Improvements in making glass bottles and in the apparatus connected therewith."
As set forth in his petition, recorded in the said office on the 17th day of March, 1859.

740. And Benjamin Browne, of No. 52, King William Street, London Bridge, in the city of London and county of Middlesex, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "A new method of working or operating switches and signals on railways by improved apparatus for that purpose."—A communication from abroad by Victor Armand Prou, of Rue de Sèvres, Paris, in the empire of France.

745. And Pierre Paul Boll, of Paris, in the French empire, Gentleman, and Hermann Reger, of Cologne, Gentleman, have given the like notice in respect of the invention of "Improvements in steam-boiler and other furnaces."—A communication from Antoine Speich, residing at Strasbourg.
As set forth in their respective petitions, both recorded in the said office on the 23rd day of March, 1859.

792. And John Wilson Hadwen, of Kebroyd Mills, in the parish of Halifax, and West Riding of the county of York, Cotton Spinner, has given the like notice in respect of the invention of "A new art or manufacture for converting certain kinds of silk waste into yarns or threads."
As set forth in his petition, recorded in the said office on the 30th day of March, 1859.

858. An Francis Maltby Crichton, of Stoke Abbey, Stoke Bishop, in the parish of Westbury-upon-Frym, in the county of Gloucester, Gentleman, has given the like notice in respect of the invention of "Improvements in clocks or time-keepers."
As set forth in his petition, recorded in the said office on the 5th day of April, 1859.

866. And Alexander Chaplin, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in steam-boilers."

867. And Robert Postlethwaite, of Liverpool, in the county of Lancaster, Saddler, has given the like notice in respect of the invention of "An improvement in harness pads for horses."
As set forth in their respective petitions, both recorded in the said office on the 7th day of April, 1859.

903. And Leopold Wimmer, of Vienna, in the empire of Austria, Master Baker, has given the like notice in respect of the invention of "An improved preparation for killing beetles."
As set forth in his petition, recorded in the said office on the 11th day of April, 1859.

916. And Philip Hill, of Manchester, in the county of Lancaster, Weaver, and John Moore, of Salford, in the same county, Small Ware Manufacturer, have given the like notice in respect of the invention of "Improvements in weaving double pile fabrics."

919. And James Crossdale, of Rotherfield Street, Lower Islington, in the county of Middlesex, Boot and Shoe Maker, has given the like notice in respect of the invention of "Certain improvements in boots and shoes."

922. And Samuel Tatton, of Leek, in the county of Stafford, Silk Dyer, has given the like notice in respect of the invention of "Improvements in preparing and treating silk, and improvements in dyeing silk."
As set forth in their respective petitions, all recorded in the said office on the 12th day of April, 1859.

951. And Hugh Adams Silver, of Cornhill and Bishopsgate Street Within, in the city of London, and Silver Town, in the county of Essex, India Rubber Manufacturer, has given the like notice in respect of the invention of "Improvements in insulating wire for electric telegraphs."
As set forth in his petition, recorded in the said office on the 15th day of April, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

3rd May, 1859.

2453. Victor Blumberg, of Bloomfield Lodge, Notting Hill, in the county of Middlesex, Gentleman, for an invention of "Improvements in the construction of slate billiard tables, which improvements are also applicable for other useful purposes."—Dated 3rd November, 1858.

2458. John Fowler, junior, Robert Burton, and David Greig, all of Cornhill, in the city of London, for an invention of "Improvements in applying motive power to actuate ploughs and other agricultural implements."—Dated 3rd November, 1858.

2467. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in treating air and gases, and the employment of the same for obtaining motive power."—Dated 4th November, 1858.

2471. Thomas Till, of Hooper Street, in the Borough of Birmingham, in the county of Warwick, Mechanic, for an invention of "Improve-

ments in machinery for making nails, and for other analogous purposes where metal is compressed by dies or stamps."—Dated 5th November, 1858.

2472. Thomas Briggs Smith, of Marietta, in the state of Ohio, and United States of America, for an invention of "Preparing wood, so as to be used as a substitute for curled hair in the manufacture of mattresses, and in the other purposes to which curled hair and its substitutes are applied."—Dated 5th November, 1858.

2477. Louis Schwartzkorf and Ferdinand Carl Philippson, both of Berlin, for an invention of "Improvements in machinery for boring holes in rocks and minerals for blasting and other similar purposes."—Dated 5th November, 1858.

2485. John Cliff, of the Imperial Potteries, Lambeth, in the county of Surrey, for an invention of "Improvements in the construction of kilns for burning stoneware, red clayware, porcelain, and all other kinds of earthenware."—Dated 6th November, 1858.

2489. James Jackson, Aaron Fisher, and John Jones Harney, of Sheffield, in the county of York, Crinoline Manufacturers, for an invention of "Improvements in the manufacture of strips or bands of steel, and in the machinery or apparatus to be employed therein."—Dated 6th November, 1858.

2495. Jonathan Wardill, of Commercial Road East, in the county of Middlesex, Engineer, for an invention of "Improvements in purchases for the raising and lowering of weights by means of chains especially applicable to ships' capstans and windlasses."—Dated 8th November, 1858.

2510. William Clark, of 53, Chancery Lane, in the county of Middlesex, Patent Agent and Engineer, for an invention of "Improvements in signals for railways, and in apparatus for actuating the same."—A communication from Auguste Lucien Verité and Julien Stephane Bazin, both residing abroad.—Dated 9th November, 1858.

2544. John Benyon, of Swinton, near the city of Manchester, Manager, and John Warburton Bridge Bowden, of the same place, Manufacturer, for an invention of "Certain improvements in looms for weaving."—Dated 13th November, 1858.

2570. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for kneading dough or working and mixing plastic materials."—A communication from Monsieur Valleé, a foreigner resident abroad.—Dated 16th November, 1858.

2595. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "A process of thickening, strengthening, and improving tanned hides."—A communication from Antoine Louis Adolphe Farrer, residing at Nancy, in the empire of France.—Dated 17th November, 1858.

2626. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the construction of electric telegraph cables or conductors."—A communication from Henry J. Rogers, resident at Baltimore, Maryland, in the United States of America.—Dated 19th November, 1858.

2738. Edward Jones, of Dudley, in the county of Worcester, Manager of Iron Works, for an invention of "An improvement or improvements in the manufacture of coke in ovens."—Dated 1st December, 1858.

522. William Burgess, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Implement Makers, for an invention of "An improvement in reaping and mowing machines."—Dated 26th February, 1859.

530. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in apparatus for taking soundings, applicable also to the throwing of life lines."—A communication from William P. Trowbridge, residing at Washington, Columbia, in the United States of America.—Dated 28th February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 30th April, 1859, inclusive.*)

28th April.

1029. Henry Mapple, of Child's Hill, in the county of Middlesex, parish of Hendon, Electric Engineer, for an invention of "Barometers."—Dated 1st May, 1856.

30th April.

1028. Nathan Defries, of Fitzroy Square, in the county of Middlesex, and George Henry Bachhoffner, of Montague Street, in the county of Middlesex, for an invention of "Improvements in gas fires."—Dated 1st May, 1856.

1033. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in compressing, regulating the pressure and flow of and conveying gas;—parts of which are applicable to air and other fluid pumps."—A communication from P. Hugon, of Paris.—Dated 1st May, 1856.

1042. William Naylor, of the city of Norwich, Engineer, for an invention of "Improvements in power hammers and rivetting machines, parts of such improvements being applicable to the manufacture of bolts or rivets."—Dated 2nd May, 1856.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

916. PAUL CHARLES AIMABLE DE BOURGOING (Baron), of 3, Rue de l'Université, Paris, for "Optical means of obtaining the exact image of the sky on walls, or so-called 'heliophany or celestial reflects.'"—Dated 24th February, 1859.

917. PAUL AMAND SAINTOMER, of 24, Rue Chapon, Paris, for "A fall-stool."—Dated 25th February, 1859.

918. PERRONCEL and COTTET, of 159, Rue St. Denis, Paris, for "A toy of artificial caoutchouc, &c."—Dated 25th February, 1859.

919. BATTON and CHEVAUCHEZ, of 11, Rue Notre Dame des Champs, Paris, for "A continuous motor."—Dated 25th February, 1859.

920. CHARLES AUGUSTE LEGROS, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in spinning and weaving machines."—Dated 25th February, 1859.

921. ARMAND LOUIS ANDRÉ HERBELOT, of 10, Rue du Dôme, Passy, for "A special break for locomotives."—Dated 25th February, 1859.

922. ROSALIE ISIDORE BEAU, of 11, Rue de la Monnaie, Paris, for "A thread-box."—Dated 25th February, 1859.

923. Mrs. ACHET née ROBERT DE MASSY, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A system and means of stopping horses."—Dated 25th February, 1859.

924. HYACINTHE FERDINAND D'HANGEST, of 27, Rue Neuve des Petits Champs, Paris, for "Fabrics with relief flowers and fancy designs by application."—Dated 25th February, 1859.

925. NOURY and Miss DE LABOREY DE VIERY, of 41, Rue Vielle du Temple, Paris, for "A system of hat-cushions."—Dated 25th February, 1859.

926. ALEXANDRE VICTOR DUCRAY-CHEVALLIER, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A microscope with a moveable plate."—Dated 25th February, 1859.

927. CLAUDE ROBARDET, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 28th June, 1855, for "Iron venetian blinds with moveable wings."—Dated 25th February, 1859.

928. PIERRE JOSEPH GUYET, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of cocks and clack-valves."—Dated 25th February, 1859.

929. JEAN FRANÇOIS FRÉMONT, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 12th August, 1858, for "A system of openings for hot air."—Dated 25th February, 1859.

930. MARCELIN FRANÇOIS DOROTHÉE CAVALERIE, with Castaings, of 1, Rue des Moulins, Paris, for "A motive power applicable to navigation, railways, to all kinds of machines and industrial purposes."—Dated 25th February, 1859.

931. LOUIS JULIEN CÉLESTIN MIRANDET, of 10, Rue de l'Epée de Bois, Paris, a Certificate of Addition to his Patent of 1st April, 1858, for "A kind of pictures on glass."—Dated 25th February, 1859.

932. MATHURIN ALPHONSE LANGLOIS, domiciled with Bougarel, of 35, Boulevart du Temple, Paris, a Certificate of Addition to his Patent of 1st December, 1853, for "An apparatus for extracting fecula."—Dated 25th February, 1859.

933. CHARLES ALFRED DUFEY, represented by Layssard, of 17, Rue Notre Dame de Nazareth, Paris, for "Improvements in handles in general."—Dated 26th February, 1859.

934. ALEXIS VERGNE, of 9, Rue des Maçons, Sorbonne, Paris, for "A process for obtaining stucco work."—Dated 26th February 1859.

935. ANATOLE HIPPOLYTE MAUBERT, domiciled with Bouvalet, of 100, Boulevart Beaumarchais, Paris, a Certificate of Addition to his Patent of 12th September, 1857, for "An apparatus for air-navigation."—Dated 26th February, 1859.

936. EUGÈNE DENAMPS, of 23, Rue Censier, Paris, for "A process for dyeing wool."—Dated 26th February, 1859.

937. PERIER and POSSOZ, domiciled with Descoues, of 1, Rue de Provence, Paris, for "Improvements in the manufacture of sugar."—Dated 26th February, 1859.

938. JAMES COOKE, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the treatment of textile tissues."—Dated 26th February, 1859.—(English Patent, expiring 26th July, 1872.)

939. RAABE and LUNEL, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus, called 'hippolasso,' for subduing fiery horses."—Dated 26th February, 1859.

* For the French Patent Law see No. 228 of this Journal.

940. Aimable Hippolyte Closier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of fans for obtaining designs or cuttings resembling lace, &c." —Dated 26th February, 1859.

941. Charles Masson, of 115, Rue du Faubourg St. Martin, Paris, for "A means of cleansing the inside of bottles."—Dated 26th February, 1859.

942. Joseph Anthelme Gay, of 26, Rue Vielle du Temple, Paris, for "Stopping horses."— Dated 26th February, 1859.

943. Elie Edouard Legris, represented by Sassiat, of 4, Rue des Moulins, Paris, a Certificate of Addition to his Patent of 15th March, 1858, for "Metallic packings, &c."—Dated 26th February, 1859.

944. Elie Edouard Legris, represented by Sassiat, of 4, Rue des Moulins, Paris, a Certificate of Addition to his Patent of 3rd May, 1858, for "A mercury-level."—Dated 26th February, 1859.

945. Pierre Georges, domiciled with Lebreton, of 34, Avenue Montaigne, Paris, for "A machine for polishing wood, metals, marble, mirrors, &c."— Dated 26th February, 1859.

946. Arsène Flotard, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A system of keeping accounts." — Dated 26th February, 1859.

947. Cregeen and Dickson, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the treatment of vegetable fibres in general, and in machines, apparatus, and processes employed thereat."—Dated 26th February, 1859. —(English Patent, expiring 16th June, 1872.)

948. Eugène Charles Sonnet, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 10th March, 1858, for "An harvesting machine."—Dated 26th February, 1859.

949. Alexander Schottlander, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in the manufacture of tiles."—Dated 26th February, 1859.

950. François Toussaint Brunelle, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 28th August, 1856, for "Improvements in opera-glasses, &c."—Dated 26th February, 1859.

951. Pierre Joachim Dubois, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "A system of transmission applicable to foot lathes."—Dated 26th February, 1859.

952. Jules François Victor Mouilleron, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A registering apparatus for public carriages."—Dated 26th February, 1859.

953. Carteron and Dupont, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Processes for rendering paper, tissues, wood, oil, tar, &c. incombustible." — Dated 26th February, 1859.

954. Pierre Louis Bergeon, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An oyster stand."—Dated 26th February, 1859.

955. Guillaume Julien Defrance, of 2, Rue St. Séverin, Paris, for "A camera-obscura with two optical effects for obtaining proofs instantaneously."—Dated 26th February, 1859.

956. François Marie Guiheneuf, of 5, Rue Vintimille, Paris, for "A disinfecting preservative." —Dated 28th February, 1859.

957. Jacques Noël Boneau, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to his Patent of 13th December, 1858, for "Manufacture of a tissue for braces."—Dated 28th February, 1859.

958. Desmet-Séant, represented by Fringant, of 10, Rue Ste. Elizabeth, Batignolles, for "A gas-apparatus."—Dated 28th February, 1859.

959. Jules Hippolyte Queral, of 52, Rue Notre Dame de Lorette, Paris, a Certificate of Addition to his Patent of 8th July, 1858, for "Improvements in electric telegraph apparatus."— Dated 28th February, 1859.

960. Jean Claude Gillet, of 326, Rue St. Jacques, Paris, for "A metal form for the manufacture of hats."—Dated 28th February, 1859.

961. Auguste Jouan, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for the manufacture of sugar and for other chemical operations."— Dated 28th February, 1859.

962. Auguste Prouvost, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 22nd December, 1856, for "Improvements in the arrangement of steam-boilers."—Dated 28th February, 1859.

963. Auguste Prouvost, represent by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 4th April, 1857, for "Arrangements in boilers for increasing, superheating, and regenerating steam."—Dated 28th February, 1859.

964. Charles Garbe, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 6th March, 1858, for "Improvements in pianos."—Dated 23rd February, 1859.

965. Mondollot Brothers, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 26th January, 1853, for "Improvements in apparatus for preparing gaseous liquids."—Dated 28th February, 1859.

966. Louis Camille Leferme, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A musical percussion instrument, called 'angelophone.' "—Dated 28th February, 1859.

967. Beckmann-Olofson, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "So-called 'hermetic graphite mastic.' "—Dated 28th February, 1859.

968. Jean Pierre André, of 98, Rue de la Harpe, Paris, for "A system of cupping glasses with independent clack-valves." — Dated 1st March 1859.

969. Charles Victor Guyot, of 10, Rue Vendôme, Paris, for "Running knots for braces, &c." —Dated 1st March, 1859.

970. Caselli, domiciled 71, Rue Caumartin, at the Tuscany Légation, Paris, for "Telegraphic paper prepared by means of aluminium."—Dated 1st March, 1859.

971. Claude François Mertz, of 60, Rue St. Louis, Paris, for "Chimneys with slide doors without counter-weights."—Dated 1st March, 1859.

972. Pierre Sicouret, represented by Ducout, of 3, Rue Rossini, Paris, for "A thrashing machine."—Dated 1st March, 1859.

973. Pellerin and the Society Claparède and Commartin, the former of La Chapelle St. Denis, the latter of la Villette, for "A system of pistons for steam-engines."—Dated 1st March, 1859.

974. Joseph Marie Giudicelle, of 11, Rue du Regard, Paris, for "Carriage with a variable leverage, moved by steam or hand on common roads."—Dated 1st March, 1859.

975. Mercier and Bertin, Grande Rue des Près, Près St. Gervais, for "Cigar-cases."—Dated 1st March, 1859.

976. Joseph Giordano, of 18, Avenue du Grand Montrouge, Montrouge, for "A system of rack drill."—Dated 1st March, 1859.

977. Mathias Muller, of 14, Rue de la Monnaie, Paris, for "Bellows for blowing in powder for destroying insects."—Dated 1st March, 1859.

978. George Finlayson, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in machines or apparatus for sowing or depositing seeds in lands."—Dated 1st March, 1859.—(English Patent, expiring 20th April, 1872.)

979. Major William Talbot, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "An improved apparatus for facilitating the lowering and detaching of boats from ships, being also applicable to other purposes."—Dated 1st March, 1859.—(English Patent, expiring 25th June, 1872.)

980. Libert, Hill, and Co., domiciled with Libert, of 124, Rue Montmartre, Paris, for "Improvements in steel pens."—Dated 1st March, 1859.

981. Jacques Charles Joseph L'Hôte, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 7th June, 1858, for "An inexplosive apparatus for preparing seltzer water, &c."—Dated 1st March, 1859.

982. Henry Jacques Toussaint, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 13th December, 1858, for "Separating substances of the same volume, &c. by means of a column of water."—Dated 1st March, 1859.

983. Edme Eduard D'Heurle, of 39, Rue Poissonnière, Paris, a Certificate of Addition to his Patent of 2nd March, 1858, for "A case for measures and perfumes."—Dated 2nd March, 1859.

984. Jules Rival, of 55, Rue Montmartre, Paris, a Certificate of Addition to his Patent of 22nd March, 1858, for "A manometer with a specific weight and regulator."—Dated 2nd May, 1859.

985. Hugues Marie Duru, of 10, Rue du Cloître St. Jacques, Paris, for "Billiard tables with humming tops."—Dated 2nd March, 1859.

986. Jean Louis Maxime Voxeur, of 8, Rue St. Honoré, Paris, for "Powder for destroying insects."—Dated 2nd March, 1859.

987. Eloi Eugène Derogy, of 33, Quai de l'Horloge, Paris, a Certificate of Addition to his Patent of 9th March, 1858, for "An optical instrument or object glass for photography."—Dated 2nd March, 1859.

988. Charles Lizars, of 3, Rue des Petits d'Hôtels, Paris, for "A water meter."—Dated 2nd March, 1859.

989. Désiré Joseph Goubet, of 115, Rue de Flandre à la Villette, for "An apparatus for covering fire-holes on railways."—Dated 3rd March, 1859.

990. William A. Royce, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, for "An improved pneumatic condenser for compressing aeriform or gaseous substances about to be used as motive agents."—2nd March, 1859.

991. James Greene Arnold, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, for "Improvements in the manufacture of envelopes."—Dated 2nd March, 1859.

992. Furne, junr., and Tournier, represented by Tournier, of 57, Rue de Seine, Paris, for "An object glass with a double frame."—Dated 2nd March, 1859.

993. Amand Eugène Chrétien Hostellet, of 48, Rue de la Tour d'Auvergne, Paris, for "Easels."—Dated 2nd March, 1859.

994. Jacques Marie Burnichon, of 169, Rue de Lafayette, Paris, a Certificate of Addition to his Patent of 2nd March, 1857, for "Boxes with bellows."—Dated 2nd March, 1859.

995. Maheu, Leconte, and Libry, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A process for tinning metals."—Dated 2nd March, 1859.

996. Godefroid Scheibel, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd April, 1858, for "A clasp for portemonnaies."—Dated 2nd March, 1859.

997. Paignon and Vaudaux, represented by Brade, of 22, Rue Ste. Anne, Paris, for "A motor worked alternately by hot and cold air."—Dated 3rd March, 1859.

998. Armand Baudet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of bracelets by applying rosaries thereto."—Dated 3rd March, 1859.

999. Martin Ziegler, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for subliming vegetable substances, camphor, indigo, alizarine, and all other volatile organic substances."—Dated 3rd March, 1859.

1000. François Jean Jamais, of 9, Rue Maître Albert, Paris, for "An oven for potatoes."—Dated 3rd March, 1859.

1001. Pierre Jules Février, of 3, Passage du Grand Cerf, Paris, for "A reflector."—Dated 3rd March, 1859.

1002. Jean Freland, of 41, Chemin de Halage, Courbevoie, for "Zinc purlins and rafters."—Dated 3rd March, 1859.

1003. Pierre Hugueniot, of 51, Rue de l'Echiquier, Paris, for "Frames for toilet mirrors."—Dated 3rd March, 1859.

1004. Louis Christophel, of Haguenau, département du Bas Rhin, for "Pumps which are protected from frost." — Dated 23rd February, 1859.

1005. Alexander Pierre Labatie, of 7, Boulevart de la Comédie, Montpellier, département de l'Hérault, for "Cloth-paper for cigarets."—Dated 1st March, 1859.

1006. Louis Armand César Le Blanc de St. Just, of 67, Rue Millière, Bordeaux, département de la Gironde, for "A steam-engine for extracting stones from quarries."—Dated 4th March, 1859.

1007. Jean Honoré Alphonse Leriche, of 211, Rue de l'Empereur, Rueil, département de Seine et Oise, for "Discolouring and purifying animal, vegetable, and mineral oils for lubricating machinery and for lighting." — Dated 4th March, 1859.

1008. Antoine Humbert, of 62, Rue Boileau, Lyon, département du Rhône, for "A machine for weaving silk stuffs."—Dated 4th March, 1859.

1009. Jean Baptiste Astier, of 30, Rue Crécy, Nantes, département de la Loire Inférieure, for "A moveable socket for bells." — Dated 4th March, 1859.

1010. Claude Marie Laurent Picard, domiciled with Boullemier, of 16, Rue St. Hélène, Lyon, département du Rhône, for "A mechanism with an alternate movement applicable to clock-work, and to mirrors for catching larks."—Dated 4th March, 1859.

1011. Joseph Lallemand, of Lieu de la Villette, Lyon, département du Rhône, for "An apparatus for lubricating railway carriages by means of oil." —Dated 4th March, 1859.

1012. Charles Désiré Roche, of Lafère, département de l'Aisne, a Certificate of Addition to his Patent of 9th March, 1858, for "A process for utilizing the waste-steam of high-pressure engines by means of an outlet-pipe, and a heating apparatus for feeding the generator." — Dated 5th March, 1859.

1013. Philibert Roussy, of 58, Rue de Charlemagne, Lyon, département du Rhône, a Certificate of Addition to his Patent of 6th March, 1858, for "A sector-break, &c."—Dated 5th March, 1859.

1014. Rousset and Perret, junr., of Grande Place, Oullins, département du Rhône, for "A water-meter."—Dated 5th March, 1859.

1015. Pierre Dernoncourt, of Denain, département du Nord, for "A safety lamp with a toothed disk to be used in mines, distilleries, and gasworks."—Dated 17th March, 1859.

1016. Thomas Scott, of 34, Rue d'Elbeuf, Rouen, département de la Seine Inferièure, for "A condensor with plane surfaces."—Dated 2nd March, 1859.

1017. Louis Gustave Linant, of 60, Rue de la Grosse Horloge, Rouen, département de la Seine Inférieure, for "Improvements in railway breaks." —Dated 3rd March, 1858.

1018. Simon Joret, of Guimgamp, département des Côtes du Nord, for "A horse-gin for thrashing corn."—Dated 7th March, 1859.

1019. Pierre and Jean Baptiste Diot, of Fallon, département de la Haute Saône, for "An apparatus to be used as a cone in charcoal kilns."— Dated 9th March, 1859.

1020. Jean Sans, of 84, Rue Française, Béziers, département de l'Hérault, for "Improvements in Fouceuse's plough, as used in the south of France."—Dated 4th March, 1859.

1021. Jean Abt, of Colmar, département du Haut Rhin, for "Iron-work for doors, windows, &c."— Dated 5th March, 1859.

1022. Jacques Aubry, of 9, Rue de la Trinité, Troyes, département de l'Aube, a Certificate of Addition to his Patent of 9th March, 1857, for "A machine for cutting, piercing, and embossing metals."—Dated 7th March, 1859.

1023. Philibert Dubois, of Cusset, département de l'Allier, for "An apparatus for taking the measure for all kinds of stays."—Dated 8th March, 1859.

1024. Jouniaux and Décamps, of Cousobre, département du Nord, for "A system of a regular down motion with counter-weights and catches for frames of marble saws."—Dated 10th March, 1859.

1025. Landre, Gras, and Co., of 26, Cours Bonaparté, Lyon, département du Rhône, for "A vertical parabolical retort for distilling schist and other minerals used for lighting."—Dated 25th February, 1859.

1026. Alexis Roux, of Séon St. Henri, banlieue de Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 11th July, 1854, for "Tiles of baked Seon earth."— Dated 28th February, 1859.

1027. Séraphin Joseph Rénée, of 50, Cours Belzunu, Marseille, département des Bouches du Rhône, for "A cast-iron sink." — Dated 28th February, 1859.

1028. René Robin, of Rochine, near Angoulême, département de la Charente, for "A distilling apparatus."—Dated 5th March, 1859.

1029. Charles Boyer, of 32, Rue du Vieux Marché aux Vins, Strasbourg, département du Bas Rhin, for "A system of steam boilers for fixed and moveable engines."—Dated 5th March, 1859.

1030. Barret and Beure, of Sancey-le-Grand, département du Doubs, for "Ploughs with revolving mould-boards."—Dated 5th March, 1859.

1031. Elizabeth Fantapié, of Rue Chabot-Charny, Dijon, département de la Côte d'Or, for "A process for mending stuffs without sewing."— Dated 7th March, 1859.

1032. Laurent Müller, of Cernay département du Haut Rhin, for "A machine for making stretched paper tubes for spinning."—Dated 7th March, 1859.

1033. Pierre Amanieu, of 32, Rue des Minîmes, Bordeaux, département de la Gironde, for "A system of closing casks containing liquids."—Dated 8th March, 1859.

1034. François Edouard Noël, of 64, Rue Stanislas, Nancy, département de la Meurthe, for "Millstones for grinding corn, vegetables, and other products."—Dated 7th March, 1859.

1035. Jules Lecointe, of St. Quentin, département de l'Aisne, a Certificate of Addition to his Patent of 11th March, 1858, for "A boiler with a multiple surface."—Dated 10th March, 1859.

1036. Thivet and Dickhoff, of Barte Dice, département de la Meuse, for "An apparatus for distributing and measuring pulp in paper machines."—Dated 10th March, 1859.

1037. Alexis Aimable Marchon, of Etampes, département de Seine et Oise, for "A kneading trough for bread, butter, clay, &c."—Dated 10th March, 1859.

1038. Edme Jules Maumené, of 22, Rue Colbert, Reims, département de la Marne, for 'Gaseous liqueurs."—Dated 10th March, 1859.

1039. Vermersch and Briquet, of Turcoing, département du Nord, for "A machine for preparing wool."—Dated 11th March, 1859.

1040. Lambert Auguste Vuillemin, of Marseille, département des Bouches du Rhône, for "An hydraulic and steam motor with pistons of quadrilateral and other forms."—Dated 1st March, 1859.

1041. Jean Baptiste Car, of 104, Rue d'Aubagne, Marseille, département des Bouches du Rhône, for "A machine for making round matches."—Dated 1st March, 1859.

1042. Auguste Arniaud, represented by Aubergier, of 5, Rue de Sion, Marseille, département des Bouches du Rhône, for "A pivot machine for navigation."—Dated 2nd March, 1859.

1043. Grimaud and Gras, of 1, Rue des Pénitents Bleus, Marseille, département des Bouches du Rhône, for "A coffee-roaster."—Dated 5th March, 1859.

1044. Gilles Adolphe Sauveton, of Montauban, département du Tarn et Garonne, for "A mechanical carriage"—Dated 8th March, 1859.

1045. Michele Loup, of Rue de l'Hôpital, Givors, département du Rhône, for "A machine for conglomerating pit-coal, lignite, anthracite, &c."—Dated 8th March, 1859.

1046. Tranquille Lecerf, of 6, Rue des Fossés, Saint Yves, Rouen, département de la Seine Inférieure, for "A furnace for tempering files."—Dated 8th March, 1859.

1047. Jean Baptiste Henri Guigues, of 27, Rue Terrasse, Marseille, département des Bouches du Rhône, for "A purifying and cooling filter."—Dated 8th March, 1859.

1048. Lucien Chamouton, of 4, Rue de Condé, Lyon, département du Rhône, for "A lithographic press."—Dated 8th March, 1859.

1049. François Briotet, of Dijon, département de la Côte d'Or, for "Copper ornaments of edges."—Dated 10th March, 1859.

1050. Théobald Mansard, of Rue de Viel, Bar le Duc, département de la Meuse, for "A process for protecting apartments from smoke."—Dated 11th March, 1859.

1051. Antoine Vergoin, of 13, Place d'Albon, Lyon, département du Rhône, for "Combs for hair dressing."—Dated 9th March, 1859.

1052. Félix Portes, of 32, Rue des Capucins, Lyon, département du Rhône, a Certificate of Addition to his Patent of 9th September, 1857, for "A machine for cutting pieces of chenille."—Dated 9th March, 1859.

1053. Lelarge and Pickon, of 7, Rue de l'Observance, Lyon, département du Rhône, for "Improvements in bobbinet looms."—Dated 9th March, 1859.

1054. Denis Gantillon, of 22, Quai d'Albret, Lyon, département du Rhône, for "A kind of moire."—Dated 10th March, 1859.

1055. Jean Baptiste Berthault, of 62, Quai de Serin, Lyon, département du Rhône, for "A mechanism for boiling and stretching threads."—Dated 10th March, 1859.

1056. Victor Petit, of Rambervillers, département des Vosges, for "Flat tiles of baked clay with two right sides."—Dated 11th March, 1859.

1057. Jacques Foussier, of 2, Place Fontaine des Barres, Limoges, département de la Haute Vienne, a Certificate of Addition to his Patent of 12th March, 1853, for "Inodorous privies."—Dated 11th March, 1859.

1058. Pierre Pfetsch, Directeur de la Saline, of Saint Nicolas Varangéville, for "Working mines of rock salt by means of water."—Dated 12th March, 1859.

1059. André Eléonore Loupot, of Vouziers, département des Ardennes, for "Manufacture of stained paper."—Dated 12th March, 1859.

1060. Pierre Joseph Fontaine, of the Anzin Mines, département du Nord, for "Parachutes with stops."—Dated 14th March, 1859.

1061. André François Emile Robert, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A condensing smoking pipe."—Dated 3rd March, 1859.

1062. Charles Renaux, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 1st March, 1858, for "A shaping lathe."—Dated 3rd March, 1859.

1063. Joseph René Chapelain, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A mechanism applicable to bits, whereby the most fiery horses may be subdued."—Dated 3rd March, 1859.

1064. Albert Félix Jozwik, of 167, Rue du Faubourg St. Martin, Paris, for "Means for obtaining illimited power and velocity independent from each other, combined with perpetual movement."—Dated 4th March, 1859.

1065. Lebeuf, Milliet, and Co., represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in the manufacture of porce-

lain or agate buttons, from any ceramic or plastic vitrifiable substance"—Dated 4th March, 1859.

1066. Adolphe Frédéric Marius Alexandre Iglesia, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "A system of inlaid floors."—Dated 4th March, 1859.

1067. James Dupré Brabazon, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Using sails as motors for screws and other propellers of vessels." — Dated 4th March, 1859.—(English Patent, expiring 28th August, 1878.)

1068. Louis Ernest Descroisettes, of 151, Rue du Faubourg St. Denis, Paris, for "Applying silk embroideries on silk collars."—Dated 7th March, 1859.

1069. William Strode, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in gas-lighting and ventilating apparatus."—Dated 4th March, 1859.

1070. Midocq and Gaillard, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of travelling and other bags."—Dated 4th March, 1859.

1071. Jean Meurgey, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in assembling hoops in general." — Dated 4th March, 1859.

1072. Michel Bonière, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in lubricating machinery." — Dated 4th March, 1859.

1073. René Prosper Lavie, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 6th August, 1858, for "Improvements in the construction of horsegins."—Dated 4th March, 1859.

1074. Louis François Clément Brequet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 22nd October, 1856, for "A printing apparatus for electric telegraphs."—Dated 4th March, 1859.

1075. Louis Hippolyte Ferry, of 31, Rue de Beaune, Paris, for "A kind of dressing-case."—Dated 4th March, 1859.

1076. Louis Albert Thirion, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 2nd November, 1857, for "Improvements in mills."—Dated 4th March, 1859.

1077. Alfred Mengarduque, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 16th August, 1858, for "A mode of stoppering by pressure."—Dated 4th March, 1859.

1078. Marc Reichenbach, of 20, Rue des Cinq Moulins, La Chapelle St. Denis, for "A float with direct indicator, without pulleys, balance, or counterweight."—Dated 4th March, 1859.

1079. Jacques Louis Auguste Legeay, of 68, Rue de Grenelle St. Germain, Paris, for "Rolling mills."—Dated 5th March, 1859.

1080. Louis Séverin Finbert, of 76, Rue Basse du Rempart, Paris, for "A coffee-mill."—Dated 5th March, 1859.

1081. Camille Léon Tronquoy, of 20, Rue Mazagran, Paris, for "A continuous apparatus for distilling, rectifying, and separating tar, resinous substances, &c."—Dated 5th March, 1859.

1082. Jean Baptiste Brûlé, represented by Amouroux, of 333, Rue St. Martin, Paris, for kind of button-buckles."—Dated 5th March, 1859.

1083. François Schmith, of 1, Rue de Poissy, Paris, a Certificate of Addition to his Patent of 29th March, 1858, for "An improved system of manufacturing peat."—Dated 5th March, 1859.

1084. Boyenval and Engler, of 27, Rue de la Glacière, Gentilly, for "A machine for bending iron into spiral shape."—Dated 5th March, 1859.

1085. Henry Jackson, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of lubricating substances." — Dated 5th March, 1859.—(English Patent, expiring 26th July, 1872.)

1086. Théophile Herlin, represented by Beluze, of 3, Rue Baillet, Paris, for "A sanitary apparatus for cleansing bottles."—Dated 5th March, 1859.

1087. Carlos de Castro y Franganillo, represented by Meaux St. Marc, of 19, Rue Hautefeuille, Paris, for "Manufacture of candles from animal wax."—Dated 5th March, 1859.

1088. Auguste Noël, of 26, Rue de Crussol, Paris, a Certificate of Addition to his Patent of 12th March, 1856, for "An apparatus for separating fecal matter."—Dated 5th March, 1859.

1089. Joseph Louis Dimier, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in machines for folding and goffering letter envelopes."—Dated 5th March, 1859.

1090. Auguste Hubert Stanislas Trève, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in electric cables."—Dated 5th March, 1859.

1091. Louis Lemancel, of 7, Rue de Valencienne, La Villette, for 'An hydraulic moderator apparatus.'—Dated 5th March, 1859.

1092. Jules Henri Etienne Mareschal, of 51, Rue Grange-aux-Belles, Paris, for "A machine for dressing wood."—Dated 5th March, 1859.

1093. Alexandre Prince, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in ornamenting and colouring glass surfaces." — Dated 5th March, 1859.—(English Patent, expiring 22nd December, 1872.)

1094. John Eason, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in apparatus and processes for tanning, dyeing, and for obtaining extracts from animal, vegetable, and mineral substances."—Dated 5th March, 1859.—(English Patent, expiring 16th February, 1873.)

1095. Walter Ralston, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in goffering and finishing tissues and in machines or apparatus employed thereat." — Dated 5th March, 1859.—(English Patent, expiring 23rd November, 1872.)

1096. Martial Henri Bonabel, of 16, Rue des Vielles Etuves, Paris, a Certificate of Addition to his Patent of 8th March, 1858, for "Machines for

making coppersmiths' articles." — Dated 5th March, 1859.

1097. Simon Alfred Sauvage, of 10, Rue du Petit Carreau, Paris, for "Fastening gloves."—Dated 5th March, 1859.

1098. Jean Deneirouse, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 24th April, 1858, for "A system of substituting continuous paper for cards in jacquard looms."—Dated 5th March, 1859.

1099. Gustave de Pierpont, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in lime-kilns in general and especially in Simoneau's kiln."—Dated 5th March, 1859.

1100. Brichard and Morizur, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manchester butterfly gas burners."—Dated 5th March, 1859.

1101. Pierre Prosper Baudouin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mechanism for self-actors for winding up thread on bobbins without using guides."—Dated 5th March, 1859.

1102. Charles Macée, of 25, Rue Volta, Paris, for "A cigar case."—Dated 7th March, 1859.

1103. Frederick and Bouquet, domiciled with the former, of 23. Rue d'Orléans St. Marcel, Paris, for "A system of piles for carbonizing wood, pit-coal in forests, and a means of obtaining pyroligneous acids."—Dated 7th March, 1859.

1104. Jean Baptiste Victor Denis Tranchant, of 253, Rue St. Honoré, Paris, for "A machine for dyeing stuffs."—Dated 7th March, 1859.

1105. Antoine Edouard Chilliat, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A system of twisting silk and of whirls, with a continuous action."—Dated 7th March, 1859.

1106. Philip Davies Margesson, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the mode of treating sugar cane and other sacchariferous canes."—Dated 7th March, 1859.—(English Patent, expiring 31st August, 1872.)

1107. François Auguste Marie Barre, represented by Dubois, of 44, Quai d'Orléans, Paris, a Certificate of Addition to his Patent of 18th March, 1858, for "A machine for making paper bags."—Dated 7th March, 1859.

1108. Manuel Paul Jonas Lavater, of 9 and 10, Passage du Saumon, Paris, a Certificate of Addition to his Patent of 26th February, 1858, for "Pneumatic utensils."—Dated 7th March, 1859.

1109. Guyot and Baudot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A motive mechanism rendered contractile by means of electro-magnetism."—Dated 7th March, 1859.

1110. Maurice Augustin Sormani, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 12th January, 1859, for "A tournure petticoat, &c."—Dated 7th March, 1859.

1111. Etienne Théodore Dumont, of Achoux, département de la Somme, for "Improvements in purlin-tiles."—Dated 9th March, 1859.

1112. Victor Ferre, of 15, Boulevart Lonchamps, Marseille, département des Bouches du Rhône, for "Fuel called 'carbonized vegetable capsules.'"—Dated 11th March, 1859.

1113. Nicolas Perrot, of Dommarieu, département de la Haute Marne, for "A process for preserving vines from frost by means of leaves."—Dated 12th March, 1859.

1114. Camille De Baeker, domiciled with Launoy-Lefébure, of 55, Rue Basse, Lille, département du Nord, for "An apparatus for planting beans and other grain." — Dated 14th March, 1859.

1115. Hugo Fréderic Forbes, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Copying-presses for drawing rooms." — Dated 7th March, 1859.

1116. The Joint Stock Company of the Rochum Mines and Steel Works (Prussia), represented by Hoechster, of 34, Rue des Petits Ecuries, Paris, for "A process for casting steel in clay moulds, and for manufacturing bells, &c. from cast steel." —Dated 8th March, 1859.

1117. Georges Henri Bourgoin, of 28, Cours la Reine, Paris, for "Extracting oil, &c. by means of centrifugal power."—Dated 8th March, 1859.

1118. Pierre Aléxandre Guillon, domiciled with Johamet, of 56, Rue de Sêvres, Paris, for "Improvements in wind and other mills." — Dated 8th March, 1859.

1119. Félix Hippolyte Florquin de St. Simon, of 73, Rue de Vaugirard, Paris, for "A machine for decorticating all kinds of substances."—Dated 9th March, 1859.

1120. Augustine Chateau, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "Handles of smoothing-irons."—Dated 9th March, 1859.

1121. Augustine Chateau, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "A Dutch-oven with several combined spits."—Dated 9th March, 1859.

1122. Bonnardot, Vasner and Letrillard, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Improvements in thrashing machines." —Dated 9th March, 1859.

1123. Jean Merard, of 37, Rue des Deux-Ponts, Paris, a Certificate of Addition to his Patent of 14th June, 1858, for "Improvements in hats."—Dated 9th March, 1859.

1124. Louis Claude Petit, of 62, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 12th April, 1855, for "Improvements in piston brass instruments." — Dated 9th March, 1859.

1125. Gustave Adolphe Salicis, of 43, Rue des Fossés St. Victor, Paris, a Certificate of Addition to his Patent of 22nd March, 1858, for "Barotrope apparatus (moving weights)."—Dated 9th March, 1859.

1126. Henri Nicolas Moyon, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in the manufacture of boots."—Dated 9th March, 1859.

1127. Pierre Joseph Pouplin, of 87, Rue Ménilmontant, Paris, a Certificate of Addition to his Patent of 3rd November, 1858, for "Drawing-room pistols."—Dated 9th March, 1859.

1128. Sulzberger and Graf, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for folding and stitching printed sheets."—Dated 9th March, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 12th April, 1859, and each bearing that date.

No. 23,537. J. Wallace Arndt, of Green Bay, Wis., for an "Improved machine for noting the sums of numbers added."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the three indexes *c*, *m*, and *k*, on a dial marked with units, hundreds, and thousands, in combination with the swivel arm *d*, the ratchet wheel D, and with the pinions *c*, *h*, and *i*, and with the gear wheels F, G, H, and I, or their equivalents, to operate substantially as and for the purpose specified."

No. 23,538. Wm. H. Arnold, of Washington, D.C., for an "Improved projectile for fire-arms."

"What I claim, and desire to secure by Letters Patent, is, combining with hollow base projectiles B, a shaft R, split at its extremity and otherwise constructed as described."

No. 23,539. J. E. Atwood, of Mansfield Centre, Conn., for an "Improvement in gauging threads."

"What I claim as my invention, and desire to secure by Letters Patent is, an apparatus consisting of a series of rollers, or other equivalent devises, so arranged and applied that their surfaces combine, to constitute a number of gauges, through which the thread is conveyed by suitable means, and by which its thickness is measured at two or more points at the same time, and a multiplied measurement obtained, substantially as herein described."

No. 23,540. Silas D. Baldwin, of Milwaukie, Wis., for an "Improvement in gas regulators."

"Having thus fully set out the construction and operation of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, 1, the annular recess or chamber (W), for the purpose herein stated. 2d, and in combination with a regulator having such recess, I claim the union piece (*u*), arranged and operated as herein set forth."

No. 23,541. James K. Barker, of Lawrence, Mass., for an "Improved shutter operator."

"I do not claim the strap C, or the ornamental covering D, or any particular kind of fastening, as the same may be accomplished in many known ways, as by loops in the cord, links of a chain, or by a wheel with cog and catch, but I have adopted the strap as the most convenient of known ways of fastening a cord, it admitting an ornamental covering: but what I do claim as my invention, and desire to secure by Letters Patent, is, the use of the block or arc A and B, of convenient size, to be fastened to the blind or building, as described in this specification, and for the purpose herein described. I also claim the design of arranging the pipes and cords, and the design of opening, shutting, and fastening exterior blinds, in the inside of buildings, by means described in this specification."

No. 23,542. Fredk. S. Barnard, of New York, N.Y., for an "Improvement in dove-tail joints for wood, &c."

"I do not limit myself to the material in which my aforesaid tongued and grooved sectional dovetail is formed, but intend to apply the same, whenever available. Having thus described the nature of my invention, and shown some of the ways in which the same may be applied, I remark that other instances of its utility will suggest themselves to the carpenter, builder, cabinet maker, or others, such as in the construction of columns, pilasters, table tops, and a great many other articles, whenever available. The tongued and grooved sectional dovetails can be formed by means of saws and beveled gauges, or by mechanism especially adapted to the purpose for which I propose hereafter to seek Letters Patent. What I claim as my invention, and desire to secure by Letters Patent, is, the tongued and grooved sectional dovetail joint to connect wood or other material together, in substantially the manner specified."

No. 23,543. Alex. Beckers, of New York, N. Y., for a "Stereoscope case."

"Having thus described my invention, what I claim, and desire to secure by Letters Patent, is, 1st, the picture frames E, constructed of elastic wire, or of any other suitable substance, and provided with a hook C, for adjusting the pictures in the centre, substantially as herein described. 2d, I claim the arms H, arranged in such relation to the pictures, that by the motion of the arms each of the pictures, when brought before the eye-glasses, can be moved to and from the same until it comes into the proper focus, substantially in the manner herein specified."

No. 23,544. Abner Beeler and John B. Christian, of Mount Carroll, Ill., for an "Improved pump."

"What we claim as our invention, and desire to secure by Letters Patent, is, the combination of two sliding cylinders with each other and with a third stationary cylinder, arranged and operating substantially in the manner and for the purposes herein specified."

No. 23,545. Francis H. Bell, of Washington, D.C., for an "Improvement in self-priming gun-lock."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of mechanical devices, substantially as herein described with the slide (E), by means of which the latter can be either kept rigidly in position over the mouth of the magazine chamber, thus intercepting all communication with the latter, or be thrown in gear with the lock plate, so that by cocking the hammer it will be operated in such manner as to force a cap from the magazine chamber into the discharge chamber of the hammer on the descent of the latter upon the nipple, for the purposes set forth."

No. 23,546. Jacob Benner, of Alleghany, Pa., for an "Improvement in grain separators."

"Having thus described the nature, construction, and operation of my improvement in separators, what I claim as my invention, and desire to secure by Letters Patent, of the United States, is, first, the arrangement of the receiving chamber (D), separating chamber (C), collecting chamber (B), and gathering chamber (E), when used in connection with the suction fan (*a*), as herein described and represented, and for the purpose set forth. Second, the arrangement of the shutes (*e*) and valves (*f*), when used in connection with the conical or convex bottom (*h*), of the chamber (B), as herein described and for the purpose set forth."

No. 23,547. Jacob Benner, of Alleghany, Pa., for an "Improvement in smut machines."

"Having thus described the nature, construction, and operation of my improvement, what I claim as of my inven-

tion, and desire to secure by Letters Patent of the United States, is, first, the use of plate (*p*) with the cone (8) and the opening (*o*) between the lattice work (*v*) and plate (*p*), when used in connection with the suction fan (*m*), the beaters (*q*) on drum (*r*), and the flues (D), (F), and (*e*), as herein described, and for the purpose set forth. Second, the arrangement of the chambers (A), (B), (C), and (L), and the flues (D), (F), and (*e*), when used in combination with suction fan (*m*), lattice work (*v*), opening (*o*), plate (*p*), with cone (8), and beaters (*q*) on drum (*r*), as herein described, and for the purpose set forth. Third, the use of the straight or perpendicular part (X), with cap (7) of the casing (*y*) of chamber (A), for the purpose of forming an eddy in chamber (L), as herein described, and for the purpose set forth."

No. 23,548. Hiram Berdan, of New York, N.Y., for an "Improved bread cutter."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement of certain devices, viz., the adjustable cavities, or their equivalents, in combination with the cutting-off knife, or its equivalent, and the large cylinder and piston, or their equivalents, and the so connecting the several parts that the amount of dough displaced by the piston shall be exactly equal to the cubic contents of the cavities presented for filling between each stroke of the cutting-off knife, substantially as and for the purpose specified. I also claim the devices for rounding up the loaves, as they fall from the cavities, consisting of the grooved roller and shield, or their equivalents, the roller having a vibratory motion, in the manner and for the purpose specified, in combination with the preceding arrangement of devices claimed, substantially as and for the purpose specified."

No. 23,549. Douglas Bly, of Rochester, N. Y., for an "Improvement in attaching thills to vehicles."

"I do not claim the hook form of the block D, nor the mere use of a shoulder to sustain the pressure of the thills or pole in backing in any other connection; but what I claim as my invention, and desire to secure by Letters Patent, is, the construction and arrangement of the movable piece or block E, having the notch G and a screw shank in half and slightly wedged shaped, in combination with the oblique shoulder H on the notched screw shank R and with the hook J of the block D, substantially in the manner and for the purposes herein set forth."

No. 23,550. Michael Brayer, of Rochester, N. Y., for an "Improved device for drawing saw-dust, etc. from stave machines."

"I do not claim a reciprocating knife gate working in the arc of a circle, for such device has been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment or use of the levers *n*, *n*, in combination with the inclined bed A, arranged substantially as and for the purpose set forth."

No. 23,551. Barnes Clayton, of Philadelphia, Pa., for a "Fastening for shirt studs."

"Having thus fully described my improved fastening, and its mode of operation, what I claim as new, and desire to secure by Letters Patent, is, the armed post (B), in combination with the crosspiece (D) fixed to the stem (C) of the front piece (A), the same operating together substantially in the manner and for the purpose set forth and described."

No. 23,552. Levi H. Colborn, of Baltimore, Md., for an "Improvement in harvesters."

"I do not confine myself to any particular dimensions or pitch of the spiral; what I claim as my invention, and desire to secure by Letters Patent, is, the spiral revolving cutter, constructed and arranged substantially as described, with a continuous opening through its centre for the purpose specified."

No. 23,553. I. M. Colman, of Milwaukie, Wis., for an "Improved variable cut-off for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining the double-seated balanced or equilibrium valve with the ordinary slide valve of steam engines, as herein set forth."

No. 23,554. I. P. Crutcher, of Silver Spring, Tenn., for an "Improvement in cotton seed planters."

"I claim the rotating hollow chamber C, constructed as described, in combination with the clearer and agitator *f* and swinging frame B, substantially as and for the purposes set forth."

No. 23,555. Josiah Danforth, of Middletown, Conn., for an "Improvement in hernial trusses."

"Having thus fully described my invention, I do not claim the crossing of the springs 4, 4; but what I claim as my invention, and desire to secure by Letters Patent, is, the uniting by a screw or rivet the two springs 4, 4, at a given point 2 from the end of each, with pads attached, which can be adjusted to the body without any additional spring, and thereby making the arrangement and combination of the two springs 4, 4, with their respective pads, a truss of itself."

No. 23,556. Edwd. L. Dorsey, of Greenwood, Ind., for an "Improved churn."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the employment of the trundle wheel C, staff E, pitman F, and cog wheel H, substantially in the manner herein shown, for the purpose of giving, at the same time, a vertical and a circular motion to the dashers for churning butter, as is fully set forth."

No. 23,557. Nathl. Drake, of Newton, N. J., for an "Improvement in guide attachment for vehicles."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the slotted pole strap bar F, and catch G, placed on and connected with the draft pole D, respectively as shown, in connection with the cords *c*, *c*, attached to the catch G, passing through the uprights E, and sheeves *d*, *d*, of the horse collars, and attached to the foot levers H, H, or their equivalents, substantially as and for the purpose set forth."

No. 23,558. John B. Duane, of Schenectady, N.Y., for an "Improvement in seeding machines."

"What I claim as new, and desire to secure by Letters Patent, is, 1st, the arrangement of the vibrating toothed board G, and agitating bar E, connected by the lever H, in connection with the adjustable slide *f*, and perforated bottom *d*, and grooved roller F, the whole being arranged to operate as and for the purpose set forth. 2nd, the roller H, when attached to the frame A, by the bent levers I, I, and connected with the caster wheels M, through the medium of the bars J, J, K, K, L, L, arranged substantially as shown, for the purpose set forth."

No. 23,559. Richd. H. Dutton, of Philadelphia, Pa., for an "Improvement in artificial limbs."

"I do not claim the invention of artificial limbs, or of their several parts thereof generally; but what I claim as my invention, and desire to secure by Letters Patent, is:—Claim 1st.—The use of the hardened cylindrical tube A, in constructing joints for artificial limbs, substantially as and for the purposes set forth and described. 2nd, the use of the feather spring D, when so constructed and arranged to operate, substantially as herein set forth. 3rd, the use of the bolt E, and pulleys F, F, when so constructed and arranged for the purpose herein described. 4th, the use of the spring G, when so constructed and applied to act, substantially as and for the purpose set forth and described."

No. 23,560. Thos. Fildes, of Media, Pa., for an "Improvement in oil cans for lubricating."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, attaching the oil can D, by means of a clamp B, to a handle A, and using in connection therewith, the lever or bar C, actuated by the cord *i* and slide *k*, or their equivalents, substantially as and for the purpose set forth."

No. 23,561. James Ford, of Wabash, Ind., for an "Improvement in grain drills."

"Having thus described my invention, I claim, and desire to secure by Letters Patent, the arrangement and combination of the seed box E, lever N, rod P, slide S, lever M, and tilting frame T, T¹, as and for the purposes herein shown and described."

No. 23,562. Elbridge Foster, of Hartford, Conn., for an "Improvement in covers for traveling trunks."

"What I claim as my invention, and desire to secure by Letters Patent, is, the air inflated trunk cover, in the manner substantially as herein set forth and for the purpose described, as a new article of manufacture."

No. 23,563. Washington L. Gilroy, of Philadelphia, Pa., for an "Improvement in coffee roasters."

"I am aware that 'reversibly inclined concentrating plates' have been applied to the 'inner circumference of a revolving coffee roasting cylinder,' for the purpose of preventing the coffee from 'accumulating in piles at the heads of such cylinder,' during the operation of roasting, as in Heerman's patent of 7th September, 1858, but as this result cannot take place in a spherical roaster, during a rotary motion upon its axis, because, from its shape the contained coffee must necessarily gravitate to, and slide along the middle of its bottom, or the part nearest to the fire, an arrangement therein of 'concentrating plates' would be worse than useless; therefore, I do not claim broadly the use of plates or guides in coffee roasters, but what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the two sets of the united staying and guiding pieces (B, B, and B^1, B^1,) on the inner side of the said hollow sphere, each set being placed diametrically opposite to the other, and with their apexes in the direction of the rotary motion of the said sphere, that they may, in succession, operation in combination with the interior spherical curve of the latter, during its rotary motion, to remove the coffee from the middle of the bottom of the said sphere toward the ends thereof, and essentially permit it to fall gradually over the edges of the said staying and guiding pieces, into the middle of the bottom again, as specified, thus rendering the said spherical coffee roaster perfect in its operation as described."

No. 23,564. Fayette Gould, of Huntingdon, N.Y., for "Improved calipers."

"I do not claim a stationary and sliding jaw, fitted to a graduated bar, for such device has been previously used for measuring, and is well known; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, in combination with the jaws B, C, and graduated bar A, the dial plate *f*, and index *e*, the latter being actuated by the pinion *c* and rack *b*, substantially as and for the purpose set forth."

No. 23,565. Henry H. Graham, of Paterson, N. J., for an "Improvement in chairs for rail road bars."

"Having thus described my said invention, and the advantages thereof, I wish it to be understood that I do not claim a chair taking the side of the rail, and coming up to the top thereof, neither do I claim a cross key or bolts uniting the rail by the use of fish bars, or similar devices; but I do not know of any previous instance in which the horizontal binder and vertical key spike have been used to bind the ends of the rails into a chair, having a vertical side, and fitted to receive the rail; therefore, what I claim as my invention, and desire to secure by Letters Patent is, the the horizontal binder *d*, and vertical wedge *e*, constructed substantially as set forth, in combination with the chair that receives and sustains the ends of the rails, in substantially the manner described and shown."

No. 23,566. Marshall Granniss, of Waterbury, Conn, for an "Improved carpet fastener."

"Having described my invention, I claim as an improved article of manufacture, a carpet fastener, composed of a plate B, provided with ears (*d*, *d*,) and a fork or plate A, A^1, having prongs (*a*, *a*,) as herein shown and described."

No. 23,567. Edwin J. Green, of Valparaiso, Ind., for an "Improvement in joint-bodied buggies."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, connecting the front axle of a carriage to the body by means of a swivel joint, composed of shaft G, king bolt E, turning plate D, and stationary plate C, when the latter is secured directly to the body of the carriage, substantially in the manner and for the purpose herein described. I also claim connecting the front springs to the coupling or reach by means of the shaft G, which is welded or otherwise secured to said springs, as herein represented. I also claim, in combination with a hinged carriage body, the braces P and Q, for the purpose of preventing the rear axle from being thrown angling, when the carriage is loaded heavier on one side than on the other, substantially in the manner herein described."

No. 23,568. Ira Griggs, of Utica, N. Y., assignor to the Utica Screw Manufacturing Company, for an "Improved machine for threading screws."

"What I claim as my invention, and desire to secure by Letters Patent, is,—1st, so applying the rest E, and controlling it by a spring *d*, or its equivalent, as to provide for its longitudinal movement in and independently of the carriage, substantially as and for the purposes herein described. 2nd, fitting the cutter stock with an eccentric *m*, operated by means, substantially as described, to provide for it a movement for tapering the point of the screw, independent of the vibrating movement to feed the cutter, in cutting the other portion of the screw, as herein set forth. 3rd, and though I do not claim broadly a two-pointed cutter, I claim the construction of the cutter with two points at such a distance apart as to straddle two turns of the thread and the intervening space, substantially as and for the purpose set forth."

No. 23,569. Ira Griggs, of Utica, N. Y., assignor to the Utica Screw Manufacturing Company, for an "Improved machine for nicking heads of screws."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the holding dies and feeding slider in a carrier F, which swings upon the same shaft which carries the cams for operating the said dies and slider, and operates in combination with the notching saw, substantially as herein described. And I also claim the discharging of the notched blanks from the holding dies in a lateral direction, by the introduction of the new blanks into the said dies, as herein set forth."

No. 23,570. H. S. Hall, A. D. Hunt, and C. J. Winchester, of Jamestown, N. Y., assignors to H. S. Hall, A. D. Hunt, and C. E. Jeffords, of same place, for an "Improved machine for tapering sticks."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the rotating cylinder C, provided with the adjustable bearings *j*, *j*, and cutter *k*, one or more, when said bearings and cutter are operated through the medium of the plate D, bar E, with inclined bar *q* attached, and the rack and pinion *a*, *b*, in connection with the springs *e*, or their equivalents, substantially as described."

No. 23,571. Loren Hale, of Milford, Mass., for an "Improved elastic polishing wheel."

"What I claim as my invention, and desire to secure by Letters Patent, as an improvement in wheels for grinding and polishing, is, the hollow elastic ring, operating as set forth, for the purpose specified."

No. 23,572. Wm. J. Hamersley, of Hartford, Conn., for an "Improvement in stirrups."

"What I claim, therefore, and desire to secure by Letters Patent, is, a new, useful, and improved article of manufacture as a saddle stirrup, the employment of the tube C, spring E, spindle D, or their equivalents, for the purpose substantially as described."

No. 23,573. H. P. Hart, of New Woodstock, N. Y., for an "Improved bed bottom."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the arrangement described of the springs *b*, hooks *a*, and rails or rods *g*, in combination with each other, by which the turns of the hooks are made to form shoulders to support the springs against the pressure of the rods *g*, when these are made to bear directly upon both ends of the springs as described."

No. 23,574. Chas. T. Harvey, of Marquette, Mich., for an "Improvement in piers or breakwaters."

"I do not claim of itself a crib or frame of timber filled with stone or other material, and to be sunk on the bed of a river, lake, or sea, as such is well known to engineers; but what I do claim is, the combination and arrangement of the adjustable bottom fender or crib *h*, with the pier constructed substantially in the manner as specified; the said fender being hinged or so applied to the pier as to be capable of adapting itself to the slope of the bottom in front of the vertical side of the pier, and of protecting the foundation of such pier from the corroding action of currents, the whole being substantially as herein-before specified."

No. 23,575. Thos. Harvey, of Baltimore, Md., for an "Improvement in horse collars."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the parts forming the body of a horse collar, and the construction of an underback in such form as that the outer edges of the underback, and the face of the collar and the outer back are all made perfectly secure by an underseam, and at the same time the underseam is hid from view and wear, as also showing the stitched edge of the outer back in its proper place, all being accomplished previously to the filling of the collar (instead of putting on the outer back after the collar is filled, as is the manner in putting together a case collar)."

No. 23,576. Thos. Harvey, of Baltimore, Md., for an "Improvement in horse collars."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction and addition of a fancy welt to a welted horse collar; the same being perfectly adapted to its location, being alongside of the usual welt, and so formed as to bring it directly down on the face of the collar, and thus showing a stitched edge, as also being in the proper place to prevent the hame tug from cutting into the collar, as herein set forth."

No. 23,577. Wm. Cleveland Hicks, of Boston, Mass., for an "Improvement in sewing machines."

"Firstly, I claim transmitting the motion to the needle stock, from that cam or crank on the main shaft which drives the said stock, by means of a pinion interposed between the connecting rod and the needle stock, and combining the two, by rack teeth cut on each and meshing into said pinion, whereby I am enabled to impart to the needle stock the precise motion of said cam or crank, as set forth. Secondly, I claim setting the feed wheel, or other feeding mechanism, and the shuttle race, in such position beneath the sewing table that the direction in which the materials will be fed and sewed shall be in a line parallel with the bracket arm, and toward or into the bight formed by said arm and the table, as set forth. Thirdly, I claim the herein-described apparatus for giving out and taking up the slack of the thread, consisting of a partially revolving crank or arm, placed and operated substantially as set forth."

No. 23,578. W. T. Hildrup, of Harrisburgh, Pa., for an "Improvement in rotary harrows."

"Having thus fully described my improvement, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the bars E, E, sliding piece F, and braces I, I, draught bar C, substantially in the manner herein specified, for the purpose of giving two or more harrows a self-adjusting movement to or from each other, as is herein fully set forth."

No. 23,579. Saml. A. Hill and David Alter, of Freeport, Pa., for an "Improvement in lamps."

"We do not claim, separately, the cap E, nor any portion of the device covered by the Patent granted to P. Plant, April 6, 1858; but having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the strip F within the cap E, as and for the purpose herein shown and described."

No. 23,580. Wm. C. H. Holmes, of Barnesville, Geo., for an "Improvement in plows."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the double beams *a*, *a*, hook *d*, cross adjustable braces *b* and *c*, shanks *k*, and braces *m*, the whole being constructed in the manner described for the purpose specified. I also claim, in combination with the above, the seed dropper *f*, constructed for operation conjointly as set forth."

No. 23,581. Wm. R. Jackson, of Baltimore, Md., for an "Improved railroad car seat and couch."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the method herein described of constructing the ordinary reversible seats of railroad cars, so that the backs can be brought down into line with the bottoms, but this I only claim when the backs, when so brought down, occupy the positions previously occupied by the bottoms, and the bottoms are used to fill the intermediate spaces between them, substantially as described and shown."

No. 23,582. Wm. B. Johns, of the United States Army, for an "Improvement in knapsacks."

"I do not claim the mere connecting of sheets together, nor of themselves the devices used; but I claim as new the construction of knapsacks so as to be entirely separated from their slings, and with the means of uniting several together and stretching them as described, so that the knapsack will perform the double function of sheltering the soldier and holding his kit, substantially as specified."

No. 23,583. Henry Johnson, of Washington, D. C., for an "Improvement in burners for vapor lamps."

"I am aware that a fluid pipe for conveying the fluid to the generator is not new, nor is a tube for conveying the gas from the generator to the burner new, therefore I do not claim either of them as new or of themselves, nor do I claim the thumb-screw for regulating the flow of the liquid to the generator, as this is not new; but what I claim as new, and desire to secure by Letters Patent, is, the generator *i*, burner *g*, and packing box *b*, constructed substantially as described, in combination with gas pipe *h* and fluid pipe *f*, arranged and operating substantially as described and for the purposes herein set forth."

No. 23,584. Isaac G. Johnson, of Spuyten Duyvil, N. Y., for an "Improvement stove covers."

"Having thus fully described my newly-constructed center piece for stoves, ranges, &c., what I desire to secure by Letters Patent is, the said center piece, constructed of malleable cast iron, as an article of manufacture, as above specified."

No. 23,585. Wm. Johnson, of Hampstead, N.H., for an "Improvement in machines for chamfering soles of boots and shoes."

"I claim the improved chamfering tool or manufacture as constructed with its sole rest and presser, arranged with respect to the carrier *f*, and the knife holder, substantially as shown in the accompanying drawings and as herein-before specified."

No. 23,586. Wm. Kegg, of Lassellsville, N.Y., for an "Improved mortising machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method of feeding along the work as specified, consisting essentially of the feeding wedge or wedges M, M, combined with the arms or projections N, N, sliding bolts O, O, and adjustable cams P, P, and arranged in connection with the feeding table G, frame A, and sliding frame B, substantially in the manner herein described. I also claim the adjustable stops Q, Q, and notches *m*, *m*, in the wedges M, M, with their suspending hooks or staples *n*, *n*, arranged as described in combination with the feeding apparatus for the purpose set forth. I also claim the combination of the double scale *d*, on the face of the feeding table G, with the movable or adjustable pointer *f*, in the bed piece E, arranged and operating in the manner and for the purposes specified. I also claim the supporting index standard F, in combination with the scale *g*, and arrangement *a*, *a*, *b*, *c*, for adjusting the bed piece of the feeding table in position and securing it in place substantially as described. I also claim the 'key tenon' T, fitting into the oblique groove *v*, in the bottom of the feeding table G, for the purpose of properly securing and tightening the said table on the bed piece E^1, while at the same time the desired freedom of its motion is allowed substantially as set forth."

No. 23,587. Gilbert J. Kingsbury, of Rochester, N.Y., for an "Improvement in stoves."

"I do not claim employing side grates merely, or admitting air, to consume the gaseous products of combustion when the devices and arrangements therefor differ substantially from my own; but I claim constructing the fire pot or furnace B, so that a portion thereof is flaring or funnel shaped, yet having side grates or bars, with perpendicular faces *a*, *a*, and flame passages *b*, *b*, with air tubes and jets *i*, *o*, and grate cap *c*, when combined with the interior feeding cylinder D, the whole arranged and operating substantially in the manner and for the purpose herein shown and described."

No. 23,588. Saml. Lamon and W. S. Gaskill, of Van Wert, Ohio, for an "Improved device for heating feed water of steam boilers."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the cylinder or other suitable vessel A, provided with the induction and eduction exhaust steam pipes B, C, and the spiral or helical feed water passages E, arranged substantially as and for the purpose set forth."

No. 23,589. A. B. Latta, of Cincinnati, Ohio, for an "Improvement in steam generators."

"Having thus described my improvement, what I claim as new, and desire to secure by Letters Patent, is, the method of regulating the circulation of water through the division coils, by means of a dividing piece A, constructed in the manner and for the purposes substantially as set forth."

No. 23,590. Richd. S. Lawrence, of Hartford, Conn., for an "Improvement in self-priming gun lock."

"What I claim as my invention, and desire to secure by Letters Patent, is, — 1st, the 'shut off' *g*, constructed, applied, and operating substantially as and for the purposes herein specified. 2nd, constructing the driver with its rear portion of about double the thickness of the pellets, and with the wedge-like bevel 11, and the groove 12, substantially as and for the purpose herein described. 3rd, the combination of the downwardly extended tooth 20 of the cover spring, and the notches 17, 18, in the shut-off, and *k* in the lock plate, substantially as and for the purpose herein set forth."

No. 23,591. HENRY LOCKWOOD, of New York, N. Y., for an "Improved alarm lock."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the bar L, provided with the buttons e, e^1, connected with the hammer rod D, and arranged with the latch E and bolt J, provided with projections g, h, substantially as and for the purpose set forth. 2nd, the movable or adjustable plate or disk M, arranged with the key holes j, k, k, and provided with projections j^1 to act on the button i of the bar L, substantially as and for the purpose set forth. 3rd, the combination of the plate or disk M, and bar L, when arranged with the latch E, and bolt J, to operate as described."

No. 23,592. GILDEROY LORD, of Watertown, N. Y., for an "Improvement in harvesters."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the rake head, constructed as described, in combination with the endless belt O, and tripping foot or hand lever Q, m, substantially as and for the purposes set forth. 2d, the combination of the ledge L^1 with the spring catch L of the rake head, arranged substantially as and for the purposes set forth."

No. 23,593. EDWD. LYNCH, of Washington, D. C., for an "Improvement in steam boilers."

"Having thus fully described the character and advantages of my invention, what I claim as new, and desire to secure by Letters Patent, is, circulating the water and aiding the generating of steam in the main boilers of ocean steamers, by passing the steam from the steam space of an auxiliary boiler into the water of the water space below the ash pit of the main boilers, as herein set forth."

No. 23,594. EDWD. LYNCH, of Washington, D. C., for an "Improvement in steam engines."

"Having thus set out my invention, what I claim as new, and desire to secure by Letters Patent, is,—1, the arrangement of the several parts of the engine in their relation to each other and to the propeller shaft, as herein set forth. 2d, I claim constructing the connecting rod of one of the cranks or cross heads, in the manner described, so as to allow of its surrounding the propeller shaft, as herein described."

No. 23,595. HENRY MARTIN, of Louisville, Ky., for an "Improved folding life-boat."

"I do not claim of themselves either the hinged or pivoted ribs, or the hinged gunwale bars; but what I do claim as new, and desire to secure by Letters Patent, is, the within-described arrangement of the ribs, one half of which folds towards one, and the other half towards the other side, in combination with the hinged bottom boards D, which, by means of slots $e \times$, secure the ribs in an upright position, and which are provided with seats E, which are hinged to the bottom boards by means of rods d, and which are connected by the dovetailed projections d^1, the whole being constructed and operated, substantially as and for the purpose set forth."

No. 23,596. JONATHAN M. MATHEWS, of New York, N. Y., for an "Improvement in carpet bags."

"I do not claim as new any modification or construction of the bag, for they have been constructed precisely as herein shown and described; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the two frames A, B, with the catches E, E, substantially as and for the purpose specified."

No. 23,597. JOSEPH W. MAUTERSTOCK, of New York, N. Y., for an "Improvement in metallic lath."

"Having described my invention, I claim as an improved article of manufacture, a metallic lathing, composed of plates provided with slits, ridges, and furrows, as herein shown and described."

No. 23,598. JAMES MONTGOMERY, of Baltimore, Md., for an "Improved screw-propeller."

"I claim as new, and of my invention, and desire to secure by Letters Patent, a screw propeller, composed of a plurality of blades attached to their shaft, in one plane or nearly so, when surrounded by a containing cylinder firmly attached to the peripheries of the said blades, substantially in the manner and for the purposes set forth."

No. 23,599. RICHD. MONTGOMERY, of New York, N. Y., for an "Improved machine for corrugating metal plates."

"Having described my improved machine for corrugating iron for boiler plates and other purposes, what I claim therein as new, and desire to secure by Letters Patent, is, first, feeding the sheets or plates of metal at the proper time by a feeding device, constructed and operated substantially as above described. Second, the feeding device, above described, in combination with the adjusting pins on the first set of corrugating rolls, as herein set forth. Third, the combination of two sets of corrugating rolls with the side guides h, h, constructed, arranged, and operated substantially as shown and described. Fourth, I also claim the corrugated sweeping and forming roll w, constructed and used as and for the purposes described."

No. 23,600. THOS. W. H. MOSELY, of Cincinnati, Ohio, for an "Improvement in attaching iron roofing."

"What I claim as my invention and improvement in iron roofing, is, first, securing the metallic roofing to the ribs or purlins, so that it may slide or move freely upon and in the direction of the length of the purlins, substantially as herein set forth. Second, I claim securing the purlins to the rafters of the building, so that they may have freedom of motion in the direction of their length, substantially as herein set forth. Third, I claim the combination of the chairs c, double flanged rail e, anchors n, and metallic roofing m, as herein set forth."

No. 23,601. E. P. NEEDHAM, of New York, N. Y., for an "Improvement in reed musical instruments."

"I do not claim the arrangement of one or more sets of reeds above the keys in any other manner than that herein described; but what I claim as my invention, and desire to secure by Letters Patent, is, 1st, applying and arranging two or more actions one above another above the rear portion of the key board of a harmonium or other reed instrument in such a manner, substantially as herein described, that one or more of such actions may be removed at any time and any one be exposed for repair or other purpose. 2nd, in combination with the so arranged actions, I claim the passages e, e, and upright passage f, arranged as herein described, to combine the said actions with the bellows. 3rd, combining the several valves, or two or more of them, with the key by a system of push pins, or other equivalent direct connection from one valve to another, substantially as herein described. 4th, the sound board g applied to constitute the back of the wind passage f, substantially as herein described."

No. 23,602. JOHN F. PAGE, of Philadelphia, Pa., for an "Improvement in spark arresters."

"I claim, and desire to secure by Letters Patent, the intermediate casing B with its openings d and deflecting plates h, when arranged in respect to the chimney c, the deflector G, and outer casing A, substantially as and for the purpose herein set forth."

No. 23,603. JAMES B. PARISH, of Cleveland, Ohio, for an "Improvement in coffee pots."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the fluid valve cover E, as arranged with the cup C and the helical condensing tube F, all operating in the manner and for the purpose set forth."

No. 23,604. FREDK. C. PAYNE and ALFRED REID, of New York, N. Y., for an "Improved wardrobe bed."

"What we claim, therefore, and desire to secure by Letters Patent, is, the combined arrangement with a secretary or wardrobe or bed in the back thereof, substantially in the manner and for the purpose described. Also the arrangement of the brackets L, board M, for the twofold purpose of folding compactly to hold the clothes in place, the folding legs K, the pulleys P, the cord R, weight S, as and for the purpose described."

No. 23,605. AUGUSTUS H. PHELPS, of Trenton, Mich., for an "Improved water cooler."

"What I claim and desire to secure by Letters Patent, is, the arrangement or combination of the tank C, the refrigerator B, and non-conducting chamber or casing. I also claim, in combination with preceding, the air chamber D, surrounding the faucet F, all the parts arranged substantially as and for the purpose described."

No. 23,606. LEONARD L. POLLARD, of Worcester, Mass., for an "Improvement in treeing sticks."

"What I claim as new, and desire to secure by Letters Patent, is, I claim as a new article of manufacture, the above described treeing stick, when constructed and operating in the manner and for the purposes above set forth."

No. 23,607. Robt. Ramsey, of New Wilmington, Pa., for an "Improved clothes frame."

"What I claim, and desire to secure by Letters Patent is, the combination and arrangement of the standard and the arms with the bolts, washers, and springs, substantially as and for the purpose specified."

No. 23,608. Henry Rieman, jr., of Rogersville, Ind., for an "Improvement in the mode of applying fover for extracting stumps and raising heavy weights."

"The following is what I claim as new, and of my invention, and I desire to secure by Letters Patent, 1st, in the described combination with the worm shaft F and spur wheel E, I claim the arrangement and application of the movable pillow block M, and wedge L, to hold the said spur wheel firmly in position, or admit of its being readily thrown out of gear, as set forth. 2d, I claim the adjustable supports N, P, & Q, T, adapted in the manner set forth, to sustain the machine on wheels, to convey it from place to place, and permitting its deposit on the ground while in operation."

No. 23,609. D. F. Robbins, and Simeon Morrison, of De Witt, Ill, for an "Improvement in mole plough."

"Having thus fully described the nature and object of our invention, what we claim therein as new, and desire to secure by Letters Patent, is, first, making the beam of a mole plough in two parts, united by a horizontal joint, to give it lateral adjustment, substantially as herein described. We also claim connecting the drag (which supports, and upon which the point of the beam is made adjustable, vertically,) to the rear portion of the beam by a hinged joint, or connection, so that the raising or lowering of the point of the plough beam shall not effect the drag, substantially as described."

No. 23,610. A. J. Robison, of Gypsum, N. Y., for an "Improvement in dirt scrapers."

"I am aware that dirt scrapers have been made, so as to empty themselves, by rotating or turning over, and therefore this I do not claim; but what I do claim, is the combination of the cam plate P with the spring bar A for consecutively releasing and retaing the scraper in position, as shown, the whole being arranged in the manner and for the purpose substantially as described."

No. 23,611. John S. Rowell, De Witt C. Teller, and Michael Lowth, of Beaver Dam, Wis., for an "Improvement in water wheels."

"What we claim as our invention, and desire to secure by Letters Patent, is, 1st, the combination of a series of curved guides G, G, with the buckets D, of a water wheel E, H, in the manner herein specified and for the purposes set forth. 2nd, having the guides curved and fitted to a hub of the wheel, and arranged on a rising and falling governor or spring, regulated capping plate I, so as to overhang the buckets, and extend down, more or less, over the discharge orifices of the same, as herein specified, and for the purposes set forth."

No. 23,612. Mark Runkel, of New York, N. Y., for an "Improved oscillating engine."

"What I claim as new, and desire to secure by Letters Patent, is, the segment D, with the projections d, in combination with the shell B, and the abutment c, or its equivalent, arranged substantially as and for the purpose specified."

No. 23,613. Hiram H. Scoville, of Syracuse, N.Y., for an "Improvement in harvesters."

"I do not claim the use of a bow or canvas attached to the back of a rake; but what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the propelling crank (E) and stationary cam (F) with respect to the rake bar, and universal joint, when the same are constructed and operated in the manner and for the purpose set forth. I also claim, suspending a swinging apron from framework over the platform and in front of the rake, the same being constructed and operating substantially in the manner and for the purpose set forth."

No. 23,614. Winthrop D. Shaw, of Tamworth, N. H., for an "Improved machine for splitting shoe-pegs from the block."

"I do not claim a reciprocating knife, in connecting with a fluted feed roller, for cutting shoe pegs, for such device has been previously used, neither do I claim, simply duplicating a reciprocating knife, or the employment of two reciprocating knives in connection with a feed roller, irrespective of the arrangement herein shown and described. I claim, therefore, as new, and desire to secure by Letters Patent, the feed roller I, in connection with the two reciprocating or vibrating knives G, H, the latter being so operated that one will move slightly in advance of the other so that the cuts will be given the block successively, and still admit of the proper feeding of the block M to the knives, the feed roller being operated by the pawl n, rendered adjustable by the attachment of the bent lever o, to the adjustable bar K, the whole being combined and operating substantially as and for the purpose set forth."

No. 23,615. D. H. Shirley, of Boston, Mass., for an "Improvement in skates."

"Having thus described my improvements I shall state my claim as follows:—What I claim as my invention, and desire to have secured to me by Letters Patent, is, a sliding heel piece or clamp, susceptible of being moved forward and back, and fastened at any desired point, in such a manner that the toe of the boot or shoe being held by a suitable toe piece, a longitudinal binding force can be brought to bear upon, or relieved from the foot, as set forth."

No. 23,616. Isaac C. Shuler, of Amsterdam, N.Y., for an "Improvement in metallic coffins."

"Having thus described my improvements and the mode of using them, what I claim as my invention, and desire to secure by Letters Patent, is, first, I claim the arrangement of fastening the flange, or lower edge of the walls of a sheet metal coffin, in a tray or pan (c), which forms the bottom, and which exceeds the circumference of the walls by a narrow chamber (m) which may be filled with molten metal for stiffening the base, also the strengthening bars (l, l, l,) for stiffening the bottom of the tray, substantially as described. I claim, 2d, the arrangement of scrolling or doubling over the flush lower edges of the walls of a sheet metal coffin, soldering, consecutively, each fold of the sheet metal, thus making a solid rim or flange of any required thickness, for the purpose of strengthening the base substantially as described. I claim, 3d, the arrangement of placing on the outside of the walls, even with the upper edge, and extending downward any required distance, according to the size of the coffin, a sheet metal rim (f), which may be filled with molten metal, for the purpose of strengthening and keeping in shape the upper edges of the walls of a sheet metal coffin, substantially as described. Claim 4th, I disclaim an entire frame for covering the joint of the air-tight lid of a sheet metal coffin with the coffin walls; I also disclaim any bisected sliding cover, these being claimed elsewhere; but I claim the hinged lids (i, i,) as applied to the joint in different sections, for the purpose of allowing a greater number of ornamental breaks in the coffin walls, substantially as described. I claim, 5th, the frame (n, n, n, n,) for the support of the coffin handles."

No. 23,617. Henry Simon, of Providence, R. I., for a "Fastening for shirt studs."

"What I claim as new, and desire to secure by Letters Patent, is, shirt studs A, arranged with arms b and e, to operate substantially in the manner and for the purpose herein specified."

No. 23,618. John Smalley, of Bound Brook, N.J., for an "Improvement in harvesters."

"Having described my improved reaper and mower, what I claim therein as new, and for which I desire to secure Letters Patent, is, first, the combination of the seats Y, Z, one of which is movable, as described, with the seat frame b, b, elliptical springs X, X, X^1, X^1, and main frame of the machine, the whole being arranged substantially as described and shown, and for the purposes set forth. Second, constructing the outer piece c^1, in the peculiar manner above described, viz., with two or more sockets a^{11}, in combination with the caster supporting hub 3, and extension piece a^{11}, for the purposes set forth. Third, the neck I, in combination with collars J, J, groove H, standard J^1, and lever d, arranged substantially as shown and described, for the purpose of throwing the gearing in and out of action, as set forth. Fourth, supporting the reel arms, by means of the peculiarly constructed hub w, as shown and described."

No. 23,619. Horace W. Smith, of Hartford, Conn., for an "Improvement in cocks for water basins."

"I claim the employment of the spring E and the grooved and bevel face cam H, when acting in combination, as and for the purpose described."

No. 23,620. James S. Smith, of New York, N.Y., for an "Improvement in epaulettes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the

adjuster B, fringe C, and shell A, substantially as and for the purpose herein shown and described."

No. 23,621. PHILIP SMITH, of Fall River, Mass., for an "Improvement in grates."

"I claim hanging the front plate G on pivots, arranged so far below the top that when the bottom is swung out it will carry in its top and operate the inner upper plate L, as described, for the purposes set forth. I claim arranging the plate L to vibrate, substantially as described, for the purposes set forth. I claim the plates H and H^1, constructed and arranged substantially as described. I also claim making the plate L in separate pieces fitted together, substantially in the manner described."

No. 23,622. PHILO P. STEWART, of Troy, N. Y., for an "Improvement in stoves."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method substantially as described of preventing the heat from striking through to the rising flue leading to the chimney, by separating it from the back oven plate, and from the two descending flues, by non-conducting partitions, or the equivalents thereof, as described, and for the purpose set forth. I also claim, in combination with the flue above the oven, and with the rising flue leading to the chimney, the employment of a double damper, filled in with cement, or other equivalent non-conducting material, substantially as described, to prevent the heat from striking through from the top flue to the rising flue, as set forth. And I also claim separating the direct flue under the oven from the return flue below, by means of a plate lined with cement, or rendered non-conducting by equivalent means, substantially as described, to prevent the heat from striking through to the return flue, and thereby impart greater heat to the bottom of the oven, as set forth."

No. 23,623. AMASA STONE, of Philadelphia, Pa., for an "Improvement in tools for forming lugs in the mouths of bottles and jars."

"I claim making one part of the spindle, which forms the orifice of the jug, or bottle, to turn freely, substantially as described, while the other part remains stationary in the nose of the bottle. I claim making one, two, or more scores, in that part of the spindle that turns freely, in combination with the corresponding score, or scores, in that part of the spindle which is stationary, and which aid in forming the orifice in the jug, or bottle nose, substantially as described."

No. 23,624. DAVID STUART, of Philadelphia, Pa., for an "Improvement in stoves."

"What I claim as my improvement in gas consuming cooking stoves is the distributing chamber or discharge pipe *r*, formed with a central central projection *q*, and supplied with heated air from the grate front, through pipes *k*, as set forth. I claim the discharge pipe Z located under the oven, and supplied from the grate front by pipes *k*, as set forth. I claim dividing the grate front horizontally into two series of heating chambers, as set forth."

No. 23,625. PHILO P. STEWART, of Troy, N.Y., for an "Improvement in cover lifters in cooking stoves."

"Having thus set out the construction and advantages of my invention, what I claim as new, and desire to secure by Letters Patent, is, the lifter, made up of malleable cast iron and wood, as herein set forth."

No. 23,626. R. H. TUCKER, jr., of New York, N.Y., for an "Improvement in the construction of navigable vessels."—Patented in England, 10th December, 1857.

"What I claim, and desire to secure by Letters Patent, is, the construction of navigable vessels, in the form of an isosceles triangle, with vertical sides and flat bottom, the base for that side of the triangular figure, which terminates in the two equal angls consti the stern, in combination with the air chamber, constructed substantially as and for the purpose described."

No. 23,627. S. M. WADE, of Andover, Ohio, for an "Improvement in rotary harrows."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the bar K, provided with the arm M, clutch N, and pins I, L, in combination with the angular draw bars, and double harrows, in the manner and for the purpose herein-before described. I also claim the rod O, arms Q, and rollers P, P, in combination with the angular draw bars and double harrows, when arranged in the manner and for the purpose set forth."

No. 23,628. PAUL WAGNER, of Buffalo, N.Y., for an "Improvement in water wheels."

"I claim the combination of the buckets (D) arranged on the cylinder E, as described, and the stationary inclined planes or buckets (G), arranged with reference to the cylinder (H), and buckets (D) as described, the whole being enclosed by the case (A), substantially as and for the purposes herein set forth."

No. 23,629. ELIJAH WARE, of South Boston, Mass., for an "Improvement in valve gear for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining the eccentric rod with the valve rock shaft G, or its equivalent, by means of the lever I, with its two arc-formed slots *d*, *e*, and the movable pins *f*, *g*, the whole applied and operating substantially as and for the purpose herein specified. And I also claim the combination with the double slotted lever I, and its movable pins *f*, *g*, of the levers Q, V, rods *m*, U, levers M, N, and T, secondary lever O, pinion *u*, toothed arc S, and rods L, P, the whole applied and operating substantially as and for the purpose herein described."

No. 23,630. MOSES D. WELLS, of Morgantown, Virginia, for an "Improvement in seeding machines."

"I claim the notches of the bar with the series of pins *c* therein, in combination with the guides *a*, *a*, and upward projecting rims *i* of the discharge openings *b*, substantially as set forth."

No. 23,631. JOSEPH WETHERILL, of Manchester, Conn., for an "Improved quilting frame."

"I claim the employment of the rolls C, D, E, in combination with the arms F, pawls G, notches H, so that the upper roll E may be lifted when desired, arranged in the manner and for the purpose described."

No. 23,632. GEO. J. WIDRIG, of Memphis, Tenn., for an "Improvement in hoop fastening for cotton bales."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the combination of the sides A, having slots or grooves *e*, with the bar B, for the purpose of fastening cotton bales or other similar substances, by bringing the last end *f* over the bar B, substantially as described, and for the purpose specified."

No. 23,633. JOHN W. WILCOX, of West Roxbury, Mass., for an "Improvement in constructing electro-plated rollers."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, in making electro-plate rollers, is, covering the shaft, base, or support, with a fillet or ribbon of metal, soldered or otherwise secured thereto, and depositing the copper on said surface by electro-plating, substantially as described."

No. 23,634. RUSSELL WILDMAN, of Danbury, Conn., for an "Improvement in brick machines."

"The advantages secured by this improvement is the reducing of the friction. I am not confined to any particular form of mould, the one shown, which forms the hollow block, has been long known, and can be seen in Foster's Patent, dated July 22nd, 1856. Also, in Buck's Patent, dated Dec. 9, 1856. The toggle power also is common in most kind of presses; also, the slide cut-off in the feed may be seen in Isaac Harman's Patent, dated Aug. 12, 1856. Therefore, I disclaim the above described parts, separately considered from their connection; but what I do claim as new in the above described machine, and desire to secure by Letters Patent, is, 1st, the vibrating arm B, when constructed, combined, and operated substantially as described. 2nd, I claim the vibrating feed, when constructed, arranged, and operated in combination with the mould *m*, substantially as herein set forth."

No. 23,635. C. W. WILLIAMS, of Port Jarvis, N.Y., for an "Improvement in gates for canal locks."

"I do not claim broadly the employment or use of the balls *g*, for they have been used for similar or analogous purposes; but having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is,—1st, the rods C, C, and rack D, applied to the gate B, B, for the purpose set forth. 2nd, having the journals *c* of the gates, fitted in oblong slots *d* of pullcys *e*, which are placed in suitable bear-

ings or boxes *f*, and arranged substantially as shown, to admit of the sagging of the gates, and the close fitting of the same when closed, for the purpose specified. 3rd, securing the bearings or boxes *f* to the lock A by means of the rods *h*, the boxes being attached to slides *i*, and arranged substantially as shown, so that the boxes may be adjusted as occasion may require. 4th, operating the wickets H, H, by means of the gearing, arranged as described, whereby either wicket may be operated from one and the same crank shaft *q*."

No 23,636. Wm. H. Wilson, of Summerfield, Ohio, for an "Improvement in plows."

"What I claim, and desire to secure by Letters Patent, is, the arrangement of the subsoil shovel W, the common shovel M, coulter C, and brace A, the whole being constructed as described for the purposes set forth."

No. 23,637. C. Winter, of Piqua, Ohio, for an "Improved adding machine."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the arrangement of the lever *c*, spring *d*, shaft *h*, wheels *m*, *n*, and stops *e* and *f*, in the manner herein set forth and for the purpose specified. 2nd, the arrangement of ratchet wheel *k*, bevel wheels *j* and *i*, pawls *s* and *z*, cord *o*, and pulley P, in the manner and for the purpose substantially as described."

No. 23,638. Wm. Zeller, of Lebanon county, Pa., for an "Improved mode of applying and constructing horse-power machines."

"Having thus fully described my invention, I do not claim the cog wheels or gearing used; but what I claim is, the construction of the horse-power machine herein described, as shown in Figs. 1 and 2, by which it is made to drive a reaping machine or stationary power, when the whole is constructed, arranged, and operated substantially as and for the purposes described."

No. 23,639. Henry Belfield, of Philadelphia, Pa., assignor to himself and Justice Cox, of same place, for an "Improvement in hanging bells."

"I claim, and desire to secure by Letters Patent, the lever G, its spring dog *h*, and spring *f*, in combination with the bell-crank lever F, its hammer H, and spring *n*, the whole of the parts being arranged in respect to each other and to the bell C, substantially as and for the purpose set forth. Second, the bracket B, with its four legs and projection *b*, for holding the bell, the said bracket being arranged in respect to and in combination with the levers G and F, and their respective springs, substantially in the manner specified."

No. 23,640. John F. Bodine, of Williamstown, N. J., assignor to himself, Wm. H. Bodine, and Joel A. Bodine, of same place, for an "Improvement in revolving plugs for manufacturing bottles and jars."

"What I claim as my invention, and desire to secure by Letters Patent, is, the large ring bearings *a*, *a*, formed on and near the circumference of the turning plate D, and fitting in ring grooves *b*, *b*, formed in the plug C, and capping plate E, substantially as and for the purposes set forth."

No. 23,641. Harrison Fitts, of Somerset, Mich., assignor to himself and Nelson Furrel, of Addison, Mich., for an "Improvement in machines for cleaning grain."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, the combination of the adjustable piece K with the concave and rubber, substantially as and for the purposes set forth."

No. 23,642. J. F. Greene, of Brooklyn, N.Y., assignor to Saml. B. Tobey, of Providence, R.I., for an "Improvement in obtaining fibres from waste felted fabrics."

"What I claim as my invention, and desire to secure by Letters Patent, is, subjecting the felts to be disintegrated to the succession and combined action of steam and picking, substantially as described, the steam having the effect either to unfelt or so loosen the hold which the fibres have on each other in felted fabrics that they can be drawn apart, of sufficient length to be advantageously employed in the manufacture of other felts or other fabrics."

No. 23,643. J. F. Greene, of Brooklyn, N. Y., assignor to Saml. B. Tobey, of Providence, R.I., for an "Improvement in machinery for disintegrating waste felt fabrics."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the steaming apparatus and the picker, substantially as described for steaming the felt, as it is passed to the picker to be disintegrated as set forth."

No. 23,644. Hezekiah Johnston, of Collinsville, Ill., assignor to himself and Richd. Withers, of same place, for an "Improvement in machines for cutting corn stalks, &c., on ground preparatory to ploughing."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arranging and combining the curved frame A^1 with the knives E, E, and the guides J, J, in the manner described for the purpose specified."

No. 23,645. Chas. Miller and Thompson W. Decker, of New York, N. Y., assignors to T. W. Decker, aforesaid, for an "Improved machine for cutting files."

"Having thus described our invention, we claim, and desire to secure by Letters Patent, 1st, arranging the gage-rest M to oscillate a fulcrum (*t*) located in relation to the cutting chisel, substantially as shewn, so that by moving the arm of said rest laterally by means of the screw N, the bed C and blank (*a*) may be adjusted to correspond with the cutting edge of the chisel, as herein set forth. 2nd, hinging the frame E, which carries the chisel and its appurtenances to the frame A, by a joint at (*f*), so that the rest M may readily follow the curve of the file blank, and with the chisel be thrown back when desired, all as herein shown and described."

No. 23,646. T. H. Peavey, of Montville, Me., assignor to himself and C. G. C. Collins, of Portland, Me., for an "Improvement in machines for wringing clothes."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, I claim the arrangement of the rollers C and D with the rollers A and B, when the same are constructed and operated in the manner and for the purpose herein described."

No. 23,647. John I. Sigler, of Martin's Ferry, Ohio, assignor to himself and W. M. Griffith and Co., of same place, for an "Improvement in threshing machines."

"Having thus fully described the nature of my improvements in machinery for threshing and cleaning grain, and shown the operation thereof, what I claim therein as new, and desire to secure by Letters Patent, are, first, the series of rollers E^1, E^{11}, E^{111}, etc., provided with fingers or projections a, a^1, a^{11}, etc., in combination with the slat device b, b^1, b^{11}, the fingers working in the spaces between the slats, and being used for the purpose of carrying the straw from the threshing cylinder to the place of discharge H, and at the same time so tossing it as to secure an effectual separation of the grain therefrom, the slat device b, b^1, etc., being employed for the purpose of supporting the body of the straw between the impulses of the fingers a, a^1, etc., and also for the purpose of preventing the straw from winding on the rollers E, E^1, etc. Secondly, I claim the application of the oscillatory motion to the fingered shaft R, by means of which I secure an agitation inwardly towards the fan G in addition to the throw towards the place of discharge M, for the purpose of more effectually freeing the apertures near the tail of the riddle K from obstruction, the required motion being obtained by means of the pinion *h*, rack segment Q, and arm X, or their equivalents."

No. 23,648. Orrin D. Vosmus, of Boston, Mass., assignor to himself and Edwd. W. Serrell, of Greenfield, Mass., for an "Improved method of arranging galvano-electro helices for magnetizing the driving wheels of locomotives."

"I do not claim, broadly, the application of electricity or magnetism to cause adhesion of the wheels of locomotives; neither do I claim a helix applied to a locomotive wheel, as this has before been done, but, it is believed, proved nearly or entirely valueless, whereas, in my invention I have succeeded by the use of a curved helix, as set forth, in obtaining the point of greatest magnetic effect at the point of contact between the wheel and the track; therefore, what I claim as my

invention, and desire to secure by Letters Patent, is, a curved helix applied to the wheels of a locomotive engine in substantially the manner specified, whereby the point of greatest magnetic effect is the point of contact between the wheels and the track. And, in combination with the helix aforesaid, I claim adjusting the said helix in the manner and for the purposes specified."

No. 23,649. Benjn. Douglas, of Middletown, Conn., for himself and as administrator of the estate of Wm. Douglas, deceased, late of said Middletown, for an "Improvement in pumps."

"Having thus fully described our invention of the method of fastening the lower part of the pump cylinder to the basis on which it rests, what is claimed herein as our invention, and desired to be secured by Letters Patent is, the combination of the lugs B and C, within the flange a^2, and the conical set nut A, substantially as described, for a fastening of the lower end of the pump cylinder."

Re-issues.

Cullen Whipple, of Providence, R. I., assignor to the New England Screw Company, for an "Improvement in machinery for making wood screws, &c."—Patented 7th December, 1852; ante-dated 7th June, 1852.—Re-issued 12th April, 1859.

"What is claimed under this Patent as the invention of the said Cullen Whipple, is, in combination with a mandrel which carries chuck or griping jaws, an automatic mechanism for closing said jaws upon the blank, keeping them closed to hold the blank while being dressed, and then opening them to release the dressed blank, arranged and operating in such manner to leave the mandrel (during the time that the blank is being acted on by the cutter) free from endwise pressure by the chucking mechanism. Also, the combination of togle-levers carried by the mandrel; a stop or holdfast, also carried by the mandrel to lock and hold the toggle levers when pushed beyond a straight line, and griping jaws with shanks having sufficient elasticity to maintain a firm hold of the jaws upon the blank when the toggle levers have passed a straight line, substantially as herein set forth."

Cullen Whipple, of Providence, R.I., assignor to the New England Screw Company, for an "Improvement in machinery for making wood screws, &c."—Patented 7th December, 1852; ante-dated 7th June, 1852.—Re-issued 12th April, 1859.

"What is claimed under this Patent as the invention of the said Cullen Whipple, is, a feeding punch, and mechanism for causing it to approach within different distances of the griping jaws adapted to receiving and holding screw blanks in variable positions and of different lengths, in combination with a suitable tool holder and cutting tool, substantially as herein set forth."

Cullen Whipple, of Providence, R. I., assignor to the New England Screw Company, for an "Improvement in machinery for making wood screws, &c."—Patented 7th December, 1852; ante-dated 7th June, 1852.—Re-issued 12th April, 1859.

"What is claimed under this Patent as the invention of the said Cullen Whipple, is, the spring discharging punch, in combination with the mandrel and griping jaws, when the punch and spring are both carried by the mandrel, substantially as herein set forth."

Cullen Whipple, of Providence, R. I., assignor to the New England Screw Company, for "Improved machinery for making wood screws."—Patented 7th December, 1852; ante-dated 7th June, 1852.—Re-issued 12th April, 1859.

"What is claimed under this Patent as the invention of the said Cullen Whipple, is, first, the feeder composed of a sectional trough with a close bottom and open top, into which the blank drops and arranges itself before a traversing rod, which pushes it into the griping jaws, as described. Second, the combination of an adjustable automatic feeding punch, and a spring discharging punch with an intermediate trough or equivalent means for bringing the blank into line with the two punches, substantially as herein set forth. Third, the arrangement of a spring discharging punch, with its end far enough within the end of the grooves in the griping jaws to leave an opening for admitting the end of a blank, and guiding it against the end of the discharging punch, thereby rendering the chucking more certain, substantially as herein set forth."

George P. Gordon, of New York, N. Y., for an "Improvement in printing presses."—Patented 13th July, 1858.—Re-issued 12th April, 1859.

"Claims:—Having thus fully described my invention, what I claim as new is, 1st, the combination and arrangement of the feed table, the fly or pile board, the platen and bed, with the set or sets of independent revolving nippers or grippers, for the purposes described. 2nd, I claim the fly-board, with its adjustable gauge or guide, in combination with the grippers or nippers, to insure the even piling of the sheets of paper, or their equivalents, whatever the size of the sheet may be. 3rd, I claim the vibrating double cam for throwing off and on the impression. 4th, I claim two or more distributing rollers having a lateral motion upon a main distributor, which shall move independent of and in an opposite direction to each other, and thus alternately cross and re-cross each other's distribution, for the purpose of giving a uniform inking to the form. Also the two distributions given to the inking rollers upon one cylinder, for each impression (heretofore patented by me), in combination with the rotating reciprocating bed, with the spring extensions attached, all of which is herein described and set forth."

George P. Gordon, of New York, N. Y., for "Automatic grippers for carrying sheets of paper in printing presses."—Patented 13th July, 1858.—Re-issued 12th April, 1859.

"Claims:—Having thus fully described my invention, what I claim as new is, 1st, one or more sets of grippers, nippers, or fingers, to revolve independent in themselves upon an axis, for the purpose of carrying the sheets of paper to the place of impression, or for carrying the sheet after it has received the impression to its place of deposit upon the pile-board or fly-board, or for either or both of these purposes, thus receiving and piling the sheets of paper in an even and regular heap, by the acts of my automatic grippers, or independent revolving nippers, or their equivalents. 2nd, I claim the combination of the independent revolving grippers, with the vibrating feed-board, or its equivalent. 3rd, I claim the combination of the independent revolving grippers, with a pile or fly-board, to be used as described, or in some equivalent way. 4th, I claim the combination of the independent revolving grippers with a feed board, and a pile or fly board, or their quivalents, substantially as herein described and set forth."

Thomas B. Burrall, of Geneva, N. Y., for an "Improvement in harvesters."—Patented 18th March, 1856.—Re-issued 12th April, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, first, the shoe piece *v* and rack 14, to adjust the height of the outer end of the finger board, substantially as and for the purposes specified. I also claim the shaft (*f*), passing across the end of and nearly at right angles to the shaft (1) of the main wheel (*a*), when fitted in such a manner that its pinion *i* can be thrown into and out of gear with the face wheel K, for the purposes and substantially as specified."

Theodore Heermans, of Mitchellsville, Tenn., for an "Improvement in coffee roasters."—Patented 18th January, 1859.—Re-issued 12th April, 1859.

"What I claim as new, and desire to secure by Letters Patent, is, 1, the within-specified arrangement of the plates or shelves D, D^1, for the purposes set forth. 2, the combination of a window or windows, in a coffee roaster, with agitating or elevating plates or shelves, substantially as and for the purposes set forth."

Design.

Garrettson Smith and Henry Brown, of Philadelphia, Pa., assignors to Hayward, Bartlett, and Co., of Baltimore, Md., for a "New stove design."

"We claim the design, configuration, and arrangement of the several ornaments in bas-reliefs, as above set forth and shown in the annexed drawing, as a new stove design."

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VERZEICHNISS aller in ENGLAND von 1617—1854 incl. PATENTIRTEN ERFINDUNGEN, unter vielfältige Titel gebracht, mit Hinweisungen auf ERFINDUNGEN und ENTDECKUNGEN die nach Prof. Schubarth's Klassificirung in den wissenschaftlichen Werken VERSCHIEDENER NATIONEN beschrieben sind. Von B. Woodcroft.

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REPERTORIO di tutte le INVENZIONI munite di LETTERE PATENTI in INGHILTERRA dal 1617—1854 inclusivo, poste in ordine sotto il piu gran numero di capi, con riferenze alle INVENZIONI e SCOPERTI descritti nelle opere scientifiche di DIVERSE NAZIONI, classate dal Professore Schubarth. Dal Sig. B. Woodcroft.

Le opere straniere quì indicate possono esser consultate nella Biblioteca dei Commissari delle Patenti, e traduzioni in manuscritto vi possono ottenersi.

B. WOODCROFT,
Superintendent of Specifications, &c.

Free Patent Museum and Library, South Kensington.

NUMBERS of VISITORS for the Week ending 30th April, 1859.

Day of Month.	Day of Week.	Morning.	Evening.	Total.
April 25*	Monday -	520	820	1340—Wet.
„ 26	Tuesday -	958	805	1763—Fine.
„ 27	Wednesday	420	414	834— „
„ 28	Thursday	146	251	397—Showery.
„ 29	Friday -	337	280	617—Fine.
„ 30	Saturday -	160	70	230—Wet.
	Total -	2541	2640	5181

* Easter week. Museum open till 6 o'clock, and every evening during the week.

Total number of visitors since the period of free daily admission (12th May, 1858) to 30th April, 1859, —93,304.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS. —This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

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REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of *2l.* 3*s.* 11½*d.*

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TYPOGRAPHIC, LITHOGRAPHIC, AND PLATE PRINTING.
BLEACHING, DYEING, AND PRINTING YARNS AND FABRICS.
PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 557. FRIDAY, MAY 6, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

911. To DAVID DOIG, of the city of Manchester, Engineer, for the invention of "Improvements in the construction of gas lamps."—A communication from abroad, by William Gilbert Ginty, of Rio de Janeiro, in the empire of Brazil.

On his petition, recorded in the Office of the Commissioners on the 12th day of April, 1859.

967. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "An improved machine for raising water."—A communication from abroad by M. Dupré, of No. 10, Rue Mogador, Paris, in the empire of France.

969. To WILLIAM PROSSER, of No. 24, Dorset Place, Dorset Square, in the county of Middlesex, Gentleman, for the invention of "Improvements in apparatus employed in the production of light."

971. To JOHN WHITAKER, of Bedford Mill Iron Works, near Leigh, in the county of Lancaster, Agricultural Machine Maker, for the invention of "Improvements in mowing machines."

973. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "An improved disinfecting compound." — A communication from W. E. Lÿnen, a person resident at Marseilles, France.

975. To JOSEPH IZOD, of No. 58, High Street, Hoxton, in the county of Middlesex, Wholesale Dealer in Tobacconists' Fancy Goods, for the invention of "A safety cigar, vesuvian, or fusee box or case."

977. To JOHN FREER, of Rothley, in the county of Leicester, Agricultural Implement Maker, for the invention of "Improvements in machines for planting grain and seed, and an improved seed feeder and meter for planting machines."

979. To ALEXANDER DALRYMPLE, of Sheffield, in the county of York, Tailor, for the invention of "Improvements in the mode of covering crinoline, and in machines used in connection therewith."

981. To FREDERICK EDWARDS and WILLIAM EDWARDS, of the city of Coventry, Machinists, for the invention of "Improvements in looms for weaving ribbons and other like goods."

983. And to JAMES BOYDELL, of Gloucester Crescent, Regent's Park, for the invention of "Improvements in the apparatus applied to the wheels of locomotive traction and other carriages to facilitate the draught."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of April, 1859.

985. To PETER REYNOLDS, of Belfast, in the county of Antrim, Ireland, and JAMES REYNOLDS, of the same place, Engineers and Machinists, for the invention of "Improvements in machinery or apparatus for hackling flax and other fibrous materials."

987. To ISAAC DUTTON, of Tipton, in the county of Stafford, Whitesmith, and ROBERT MARTIN, of Dudley, in the county of Worcester, Coke Merchant, and THOMAS PHILLIPS, of Dudley aforesaid, Coke Merchant, for the invention of "New or improved machinery for preventing accidents in coal or other mines, by the drawing of skips or cages over their pullies."

989. To OLIVER MAGGS, of Bourton, in the county of Dorset, for the invention of "Improvments in cheese presses."

991. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughts-

man, for the invention of "Improved machinery for weaving seamless bags or other articles with hemispherical or regular or irregular ends or forms."—A communication from abroad by John Pender, of the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 19th day of April, 1859.

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993. To Job Wotton, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "An improvement or improvements in raising or shaping metals."

995. And to Alexander William Williamson, of University College, for the invention of "Improvements in obtaining extracts from the liquorice root."

On both their petitions, recorded in the Office of the Commissioners on the 20th day of April, 1859.

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999. To André Felix Vanhulst, of Brussels, in the kingdom of Belgium, for the invention of "An improved kiln for drying malt."

1001. To Thomas Dawson and John Avery, of No. 32, Essex Street, in the county of Middlesex, for the invention of "Improvements in pencil-cases, watch seals and keys, toothpicks, and other like articles of jewellery, lockets, penknife handles, porte-monnaies, and other like articles."

1003. To John Alison, of Hainault Forest, Essex, Gentleman, for the invention of "An improved instrument for extirpating thistles, docks, and other deep-rooted weeds."

1005. To David Auld, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in machinery or apparatus for supplying steam boilers with water."

1007. To Edwin Lewthwaite, of Halifax, in the county of York, Clock and Watch Maker, and George Ambler, of Queenshead, near Halifax, aforesaid, Clock and Watch Maker, for the invention of "Improvements in clocks, watches, chronometers, and other time-keepers."

1009. To George Roberts and John Bridges, of No. 20, Ponsonby Place, Vauxhall Bridge Road, in the county of Middlesex, for the invention of "Improvements in the manufacture of candles."

1011. And to John Henry Pepper, of Morton House, Kilburn Priory, in the county of Middlesex, for the invention of "Improvements in apparatus for showing stereoscopic pictures."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of April, 1859.

1013. To Robert Gray, of Sheffield, in the county of York, Crinoline Manufacturer, for the invention of "Improvements in crinoline skirts."—A communication from abroad by Johnathan Hobson, of New York, in the United States of America.

1015. To John Edwards, of No. 77, Aldermanbury, in the city of London, for the invention of "Improvements in the manufacture of buttons."

1017. To James Gillies, of Glasgow, in the county of Lanark, North Britain, Wood Turner, for the invention of "Improvements in branding or marking wood for casks, barrels, and other purposes."

1019. To William Dicks, of Leicester, Boot Manufacturer, and William Hopwell, also of Leicester, Machinist, for the invention of "Improvements in machinery for making screws, and applying them in fixing the soles of boots and shoes."

1021. To Pierre François Mutel, Gas Burner Maker, and Lucien Henri Blanchard, Gentleman, both of Paris, France, for the invention of "Improvements in gas burners."

1023. To William Gibson, of St. Leonards Road, in the county of Middlesex, Engineer, for the invention of "Improvements in steering apparatus."

1025. To John Marshall, junior, of Selby, in the county of York, Gentleman, for the invention of "Improvements in filtering and depurating fluids."

1027. And to Frederick Colwell Maguire, of Stamford, in the county of Lincoln, Gentleman, for the invention of "Certain improvements in the utilization of sewage manure."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of April, 1859.

1029. To William Pool Balfern and Murdoch McKay, both of Hammersmith, county of Middlesex, Soap Manufacturers, for the invention of "The manufacture of sweet figged soft soap."

1031. To George Ward, of Blackburn, in the county of Lancaster, Gold Patent Thread Manufacturer, for the invention of "Improvements in machinery or apparatus for making healds."

1033. To Thomas Aldridge Weston, of King's Norton, in the county of Worcester, Accountant, for the invention of "A new or improved pulley."

1035. To James Holmes, of Street, Somerset, Accountant, for the invention of "Improvements in applying eyelet holes to boots and shoes and in binding boots and shoes."

1037. To Edward Humphrys, of Deptford, for the invention of "Improvements in steering apparatus."

1039. To Henry Columbus Hurry, of Wolverhampton, in the county of Stafford, Civil Engineer, for the invention of "Improved means of and apparatus for obtaining motive power."

1041. And to Samuel Lawrence Taylor, of Cotton End, in the county of Bedford, Agricultural Engineer, for the invention of "Improvements in agricultural implements in obtaining motive power for actuating such implements, and in apparatus connected with the application of steam power."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of April, 1859.

1043. To Herbert Allman, of Mornington Place, Hampstead Road, London, Consulting Engineer, for the invention of "Certain improvements in the construction of window-blind mountings, and in apparatus connected therewith."

1045. To William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the manufacture of nitric acid, and its application for the production of artificial nitrous or nitric salts."—A communication from abroad by Madame Lefebvre, of Paris, in the empire of France.

1047. To William Marshall, of Leith Walk, in the county of Mid-Lothian, North Britain, Engineer, for the invention of "Improvements in steam engines."

1049. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in steam boilers."—A communication from abroad by Theodore Nicolas Meynier and Louis Albert Le Bleu, of Paris.

1051. And to John Henry Johnson, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for grinding and polishing knives and other articles of cutlery and tools."—A communication from abroad by James Dodge, of Waterford, Saratoga county, state of New York, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 26th day of April, 1859.

1053. To George Pearson, of Bugbrook, near Weedon, in the county of Northampton, Contractor, for the invention of "Improvements in apparatus for cutting and shaping trenails."

1055. To Henry Richardson Fanshawe, late of Messrs. Silver and Company's Works, North Woolwich, now of No. 13, Russell Place, Old Kent Road, in the county of Surrey, India Rubber Manufacturer, for the invention of "Improved apparatus or mechanism for drawing-off, filtering, and guaging liquids in butts, barrels, casks, and such like vessels, preserving the contents from deterioration from contact with atmospheric air."

1057. To James Randal Smith, of Glasgow, in the county of Lanark, North Britain, Gentleman, for the invention of "Improvements in obtaining motive power."

1059. To Charles Hamp, of Harrow Road, in the county of Middlesex, for the invention of "Certain improvements in locks."

1061. To Thomas Lacey, of Grafton Street, in the city of Westminster, Gas Engineer, for the invention of "Improvements in gas regulators."

1063. And to Thomas Gauntley the elder, of the High Pavement, in the town of Nottingham, Lace Manufacturer, for the invention of "Improvements in the manufacture of fringes."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of April, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given, that the petition of

1075. William McIntyre Cranston, of No. 11, New Broad Street, London, Agent, praying for Letters Patent for the invention of "A grass cutting machine,"—a communication from abroad by Walter Abbot Wood, of Hoosick Falls, county of Rensselaer, state of New York, America,—was deposited and recorded in the Office of the Commissioners on the 29th day of April, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Notice is hereby also given, that the petition of

1110. Jedediah Morse, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "An improved power printing press," was deposited and recorded in the Office of the Commissioners on the 3rd day of May, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And Notice is also hereby given, that the petition of

1111. Lyman Reed Blake, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "A new and useful or improved machine for sewing a sole on a boot or shoe," was deposited and recorded in the Office of the Commissioners on the 3rd day of May, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

6th May, 1859.

2482. Alfred Fryer, of Manchester, in the county of Lancaster, Sugar Refiner, for an invention of "An improved method of supplying the tenders of locomotive engines and of supplying boilers with water."—Dated 6th November, 1858.

2490. John Platt, of Oldham, in the county of Lancaster, Mechanical Engineer, for an invention of "Improvements in machinery or apparatus for preparing, spinning, and doubling cotton and other fibrous materials."—Dated 6th November, 1858.

2494. Arthur Hyde Dendy, of 27, Fortess Terrace, Kentish Town, in the county of Middlesex, Esquire, Master of Arts, for an invention of "Improvements in the construction of breakwaters or wave screens, applicable also in constructing bridges, roadways, piers, jetties, landing stages, and other structures."—Dated 8th November, 1858.

2496. Thomas Mac Sweney, of 25, Rood Lane, in the city of London, for an invention of "Improvements in steering apparatus."—Dated 8th November, 1858.

2497. William Hale, of 6, John Street, Adelphi, in the county of Middlesex, for an invention of "Improvements in rockets."—Dated 8th November, 1858.

2502. Edward Ellis Allen, of Brompton Row, in the county of Middlesex, Engineer, for an invention of "Improved machinery or apparatuses for working the propellers of vessels."—Dated 9th November, 1858.

2504. John Farmerley Dickson, of No. 6, Russel Street, Litchurch, near Derby, in the county of Derby, Engineer, for an invention of "Improvements in the construction of railway chairs, and other details connected with the permanent way of railways."—Dated 9th November, 1858.

2505. John Louis Jullion, Paper Maker, of Stoneywood Works, Aberdeen, N. B., for an invention of "Improvements in the manufacture of paper."—Dated 9th November, 1858.

2507. Andrew Henderson, of Gloucester Place, Portman Square, in the county of Middlesex, Master Mariner, for an invention of "Improvements in vessels and in applying rudders thereto."—Dated 9th November, 1858.

2508. Joseph Felix, of No. 54, Rue Croix Nivert, at Grenelle, near Paris, Mechanician, for an invention of "Improvements in castors for furniture

and other similar purposes."—Dated 9th November, 1858.

2515. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in electric telegraphing." — Dated 9th November, 1858.

2516. Rowland Mason Ordish, of Great George Street, Westminster, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in constructing the permanent ways of railways." —Dated 9th November, 1858.

2522. Edward Humphrys, of Deptford, Engineer, for an invention of "Improvements in steam engines and boilers."—Dated 10th November, 1858.

2528. John Blethyn, of Swansea, in the county of Glamorgan, Engineer, for an invention of "Improvements in the manufacture of fuel."—Dated 11th November, 1858.

2531. Frederick Herbert Maberly, of Stowmarket, in the county of Suffolk, Master of Arts, for an invention of "Improvements in the construction of ships of war, and other vessels, their machinery and appurtenances."—Dated 11th November, 1858.

2535. James Rae, of Alpha Road, New Cross, in the county of Kent, for an invention of "Improvements in cisterns suitable for containing water for household uses."—Dated 11th November, 1858.

2545. James Wadsworth, of Salford, in the parish of Manchester, and county of Lancaster, Machinist, for an invention of "Improvements in the construction of moveable or adjustable heels for boots and shoes, and of spurs adapted thereto, and to be used therewith."—Dated 13th November, 1858.

2555. Alonzo Buonaparte Woodcock and John Macmillan Dunlop, both of Manchester, for an invention of "Improvements in covering rollers, shafts, and tubes of any figure or material with elastic shells or covers of vulcanized india rubber or other elastic substance, and in turning or grinding the surfaces of such elastic covers or shells."—Dated 13th November, 1858.

2566. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in colouring, preserving, and desiccating wood and marble, and in apparatus for the same."—A communication from Francois Casult, residing at Marseille, in the empire of France. — Dated 15th November, 1858.

2567. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "A new mode of advertising." — A communication from Messieurs Berson and Beaujanot, both residing abroad.— Dated 15th November, 1858.

2599. Charles Cowper, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for an invention of "Improvements in assorting and separating combed fibres, and in machinery for that purpose."—A communication from M. Ziegler, residing at Guebwiller, in France.—Dated 18th November, 1858.

2675. Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A safe guard against burglars."—A communication from Serge Krotkoff, a foreigner now residing abroad.— Dated 25th November, 1858.

2683. Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A new sort of drawers or trowsers for ladies or children."—A communication from Celina Gobert, a foreigner now residing abroad. — Dated 26th November, 1858.

291. Michael Loam, of Treskerby House, Truro, Cornwall, for an invention of "Improvements in machinery for raising sewage and other waters and matters."—Dated 1st February, 1859.

303. Isaac Clements, of Birmingham, in the county of Warwick, Warehouse Clerk, for an invention of "A new or improved method of manufacturing curtain rings."—Dated 2nd February, 1859.

391. James Grimes, of 6, Osborn Street, Whitechapel, Pewterer and Beer Engine Manufacturer, for an invention of "Improvements in beer engines."—Dated 11th February, 1859.

527. John Leigh, of the city of Manchester, in the county of Lancaster, Surgeon, for an invention of "Improvements in the purification of coal gas."—Dated 28th February, 1859.

569. Horatio Leonard, of the state of Massachusetts, of the United States of America, for an invention of "An improvement in the manufacture of paraffine candles."—Dated 3rd March, 1859.

628. Nathan Washburn, of the state of Massachusetts, of the United States of America, for an invention of "A new and useful or improved machine for rolling tires for wheels."—Dated 11th March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 4th May*, 1859.)

1057. William Bulmer, of Middlesboro', in the county of York, Agent for the Manufacture of Bricks and Tiles, and Isaac Sharp, of the same place, Land Agent, for an invention of "Improvements in the manufacture of bricks, tiles, and other articles, from plastic substances."—Dated 5th May, 1856.

1068. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "A method of treating guano and other matters containing uric acid, and the manufacture from the products arising from such treatment as well as from uric acid of new colouring matters, and the fixing and application thereof." —A communication.—Dated 6th May, 1856.

1071. William Joseph Curtis, of 1, Sebbon Street, Islington, Civil Engineer, for an invention of "Improvements in carriages to run on rail or tram ways and common roads."— Dated 7th May, 1856.

1102. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "An improvement in cranes." —A communication from Camille Raymond, Neustadt.—Dated 9th May, 1856.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

1129. JOHN HENRI JOHNSON, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in sounding apparatus, being also applicable to life-buoys."—Dated 9th March, 1859.—(English Patent, expiring 28th February, 1873.)

1130. JEAN HENRI CHAUDET, of 42, Rue de la Santé, Paris, a Certificate of Addition to his Patent of 4th August, 1856, for "A process for ungreasing wool and cloth."—Dated 10th March, 1859.

1131. VACHON and LACHAUD, represented by Bos-Darnis, of 36, Rue de l'Echiquier, Paris, for "Utilizing the heat obtained from animal and vegetable substances."—Dated 10th March, 1859.

1132. ANTOINE LAROZE, of 8, Rue d'Enghein, Paris, for "Purifying and assimilating phosphate of fossil lime."—Dated 10th March, 1859.

1133. ANTOINE LAROZE, of 8, Rue d'Enghien, Paris, for "Rational and anti-putrid manure."—Dated 10th March, 1859.

1134. BENJAMIN GAUTRON, represented by Richard, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 2nd December, 1856, for "Improvements in hydro-extractors worked by centrifugal power."—Dated 10th March, 1859.

1135. MELCHIOR COLSON, represented by Richard, of 45, Rue St. Sébastien, Paris, for "Machines for lowering and raising workmen in mines."—Dated 10th March, 1859.

1136. AUGUSTE HUBERT STANISLAS TRÈVE, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 5th March, 1859, for "Improvements in electric cables."—Dated 10th March, 1859.

* For the French Patent Law see No. 228 of this Journal.

1137. CHARLES EUGÈNE DE VENDEUVRE, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 25th November, 1858, for "A system of stoves for drying and baking ceramic products."—Dated 10th March, 1859.

1138. DUHAY née DU GOLBERG, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A tissue for the manufacture of bonnets, flowers, tassels, &c."—Dated 10th March, 1859.

1139. MARIE MAXIME SIGEAN, of 71, Rue du Temple, Paris, a Certificate of Addition to his Patent of 23rd October, 1858, for "A spring for fastening purses."—Dated 11th March, 1859.

1140. JOSEPH DROT, of 101, Rue du Temple, Paris, for "Double watch-keys."—Dated 11th March, 1859.

1141. JULES VINCENT, of 25, Rue St. Paul, Paris, for "Improvements in bookbinding."—Dated 11th March, 1859.

1142. LOUIS ALFRED NOIROT, of Rue de Rivoli, Paris, a Certificate of Addition to his Patent of 18th February, 1856, for "A mathematical measure."—Dated 11th March, 1859.

1143. PIERRE ROULLET, of Chemin de Ronde de la Barrière de Grenelle, Paris, for "Wood and iron floors."—Dated 11th March, 1859.

1144. JULES MUTET, represented by Simard, of 34, Rue Dauphine, Paris, a Certificate of Addition to his Patent of 18th November, 1852, for "Improvements in weaving, &c."—Dated 11th March, 1859.

1145. PIERRE MARIE TOUBOULIC, represented by Breteau, of 12, Rue Lepelletier, Paris, for "A system of railways called 'aeropost or velopost railways."—Dated 11th March, 1859.

1146. JEAN JULES CAUDÈRES, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 22nd October, 1857, for "An accordeon called 'Pian-organ.'"—Dated 11th March, 1859.

1147. VITRY and DURAIN, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A machine for printing stained paper with several colours"—Dated 11th March, 1859.

1148. LOUIS PUECH, of 24, Place de la Madeline, Paris, for "A camera-obscura for photography."—Dated 11th March, 1859.

1149. JEAN BAPTISTE DELLESTABLE, of 81, Rue du Bac, Paris, for "Improvements in umbrellas."—Dated 11th March, 1859.

1150. ISIDORE JOSEPH HEMBISE, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Economical tubular floors and partition-walls of plaster."—Dated 11th March, 1859.

1151. ANDRÉ FIRMIN PHILIPPE BAS, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Fireplaces for southern climates."—Dated 11th March, 1859.

1152. BERTRAND LOUIS OLLIVIER, domiciled with Lepin, of 19, Rue St. Dominique St. Germain, Paris, for "Stoppering bottles containing gaseous and other liquids."—Dated 11th March, 1859.

1153. CUSIN, senr. and junr., and TRAVERS, senr., domiciled with Chansel, of 8, Rue Baillif, Paris,

for "Improvements in machines for weaving silk figured stuffs."—Dated 12th March, 1859.

1154. Jean Charles Mivois, of 66, Rue Chapon, Paris, for "Placard-indicators for writing desks."—Dated 12th March, 1859.

1155. Henri Désiré Krayl, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A cigar-case."—Dated 12th March, 1859.

1156. Couvreux and Combe, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A crane with a moveable mast."—Dated 12th March, 1859.

1157. Couvreux and Combe, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A dredging engine with inclined slings."—Dated 12th March, 1859.

1158. Louis François Aléxandre Arson, of 40, Rue de Bourgogne, Paris, for "Applying steam directly to extracting gas obtained by distilling vegetable, mineral, or animal substances."—Dated 12th March, 1859.

1159. Nicolas Toscovitch, represented by Pelez, of 10, Rue de Mogador, Paris, for "A double-action screw propeller."—Dated 12th March, 1859.

1160. Joseph Plantier, of 17, Rue Vivienne, Paris, for "A process for washing and sweeping wood and metals."—Dated 12th March, 1859.

1161. Frédéric Gotthold Milisch, of 17, Rue Portefoin, Paris, for "Fastening bracelets."—Dated 12th March, 1859.

1162. Jules Séguin, of 4, Rue de Gravelle, Gravelle, département de la Seine, for "Using tides as a motive power."—Dated 12th March, 1859.

1163. Pinaud and Meyer, represented by Gagnage, of 93, Chaussée du Maine, Petit Montrouge, a Certificate of Addition to their Patent of 2nd August, 1858, for "Disinfecting gall."—Dated 12th March, 1859.

1164. Victor Forquenot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Lubricating journals and pivots of carriages and machines."—Dated 12th March, 1859.

1165. Charles Perrard, of St. Ismier, département de l'Isère, for "A process for utilizing the waste heat of kilns for lime, cement, and plaster."—Dated 8th March, 1859.

1166. Alphonse Joly, of Grenoble, département de l'Isère, a Certificate of Addition to his Patent of 23rd October, 1858, for "A system of fixed signals worked by electricity, &c."—Dated 10th March, 1859.

1167. Riol alias Constant, domiciled with Bex, of La Foubelle, commune de St. Saury, département du Cantal, for "Manufacture of glass pipes for the conveyance of water."—Dated 11th March, 1859.

1168. Joseph Aldebert, of La Butte, commune de Junier, département du Lot, for "A machine for boring rocks."—Dated 12th March, 1859.

1169. Frédéric Fischer, represented by Berveiler, Metz, département de la Moselle, a Certificate of Addition to his Patent of 18th August, 1858, for "Manufacture of bricks, artificial stones, &c. from schist and bituminous marl and clay."—Dated 12th March, 1859.

1170. Félix Lefebvre, of Berneuil, département de l'Oise, a Certificate of Addition to his Patent of 19th April, 1856, for "A thrashing machine."—Dated 14th March, 1859.

1171. Dalbanne and Petit, of Auxerre, département de l'Yonne, for "A liqueur, called 'Lamartine's elixir.'"—Dated 14th March, 1859.

1172. Benoist Richard, of 54, Rue du Glayeul, Elbeuf, département de la Seine Inférieure, for "Moveable paddle wheels and fixed cylinders."—Dated 12th March, 1859.

1173. Nicolas Charles Plantrou, of Oissel, département de la Seine Inferieure, for "A cotton card."—Dated 12th March, 1859.

1174. Armand Paris, of Aulnay, département de la Charente Inférieure, for "A plough for cultivating vineyards."—Dated 14th March, 1859.

1175. Charles Mathieu Teyssonneau, of 11 et 13, Rue St. Siméon, Bordeaux, département de la Gironde, for "An improved tool for closing all kinds of vessels."—Dated 14th March, 1859.

1176. Lacroix, Laroche, and Lacroix, of La Couronne, département de la Charente, for "Manufacture of ribbon-paper, called 'pulp ticken.'"—Dated 11th March, 1859.

1177. Eugène Pasquier, represented by Rollet, of Rue du Cours d'Ormesson, Chalons, département de la Marne, a Certificate of Addition to his Patent of 30th December, 1857, for "Improvements in machines for drying wool."—Dated 15th March, 1859.

1178. Joseph Couvers, of 4, Quai de Bondy, Lyon, département du Rhône, for "A tap with a reversed rotary clack valve."—Dated 14th March, 1859.

1179. Josephine Vignet, of 1, Impasse Savoie, Lyon, département du Rhône, for "A winter and summer skirt, with flounces and basquines."—Dated 14th March, 1859.

1180. Louis Bousquet and Co., of 91, Quai Pierre Seize, Lyon, département du Rhône, for "Clay gas retorts."—Dated 16th March, 1859.

1181. Raymond Albin Cahuzac, of Albi, département du Tarn, for "A continuous limekiln with a central hearth under a crenellated vault."—Dated 16th March, 1859.

1182. Lobis and Bernard, of 205, Rue Ste. Catherine, Bordeaux, département de la Gironde, for "A machine for filling syphons."—Dated 17th March, 1859.

1183. Louis Henri Rousseau, of 78, Rue Vieux Chemin de Rome, Marseille, département des Bouches du Rhône, for "Engines worked by regenerated steam."—Dated 12th March, 1859.

1184. Sartre, Delille, and Viollet, of 14, Rue du Dragon, Marseille, département des Bouches du Rhône, a Certificate of Addition to their Patent of 7th April, 1857, for "A process for preserving steam boilers."—Dated 15th March, 1859.

1185. Sauve and Magaud, of 50, Rue Vacon, Marseille, département des Bouches du Rhone, for "Puzzle locks."—Dated 15th March, 1859.

1186. Charles and Emile Boniface, of Sotteville-lez-Rouen, département de la Seine Inférieure, for "Applying lactoleine to spinning wool."—Dated 15th March, 1859.

1187. Tournier and Co., of Moirans, département de l'Isère, for "A kind of creel."—Dated 16th March, 1859.

1188. Xavier Fluhr, of Mulhouse, département du Haut Rhin, for "A direct mode of applying single condensors to vertical and horizontal steam-engines."—Dated 16th March, 1859.

1189. Salot alias Perpignan, of 11, Rue Trois Faucons, Avignon, département de la Vaucluse, for "Globes with central fire." — Dated 17th March, 1859.

1190. Louis Victor Thuillier, of 26, Rue aux Juifs, Rouen, département de la Seine Inférieure, for "Finishing dyed and unscoured stuffs."—Dated 17th March, 1859.

1191. Pierre Laberic, of Mazamet, département du Tarn, a Certificate of Addition to his Patent of 6th April, 1858, for "A machine for finishing cloth, &c."—Dated 17th March, 1859.

1192. Pierre Pourret, of Rue Henry IV., Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 24th December, 1857, for "A system of glass stoppers, &c."—Dated 17th March, 1859.

1193. Aléxandre Eugène Tardy, of Chartres, département d'Eure et Loire, a Certificate of Addition to his Patent of 19th April, 1858, for "A kind of blinds, called 'telegraphic blinds.'"—Dated 17th March, 1859.

1194. Pierre Boulanger, of Fallou, département de la Haute Saône, for "A system of charring wood."—Dated 18th March, 1859.

1195. Pierre Dupré, of Chateaubriant, département de la Loire Inférieure, for "A flour mill."—Dated 18th March, 1859.

1196. Auguste Rivière, of Carcassonne, département de l'Aude, for "Pincers for mustachoes."—Dated 18th March, 1859.

1197. Cosson, senr., and Lepault, of Nouzon, département des Ardennes, for "Hinge plates and hinges of carriages made without soldering."—Dated 18th March, 1859.

1198. Auguste Moreau, of Chateaubriant, département de la Loire Inférieure, for "A machine for cutting sugared gum paste."—Dated 18th March, 1859.

1199. Herbaux-Rohart, of Roubaix, département du Nord, for "An inodorous apparatus applicable to privies and night-stools."—Dated 18th March, 1859.

1200. Constantin and Lognon, of Aubin, département de l'Avignon, for "A system of hydraulic pumps."—Dated 16th March, 1859.

1201. Charles Delmas, of 2, Rue Thomassin, Lyon, département du Rhône, a Certificate of Addition to his Patent of 21st September, 1858, for "An apparatus for wetting postage stamps by pressure."—Dated 18th March, 1859.

1202. Antoine Martin, of 5, Rue Thomassin, Lyon, département du Rhône, for "Improvements in sets of teeth."—Dated 19th March, 1859.

1203. Philippe Bouc, of La Charrière, and Louis Pierre, of Mort, département des Deux Sèvres, a Certificate of Addition to his Patent of 21st March, 1857, for "A motor for carriages."—Dated 21st March, 1859.

1204. Nicolas Waldeck, of 8, Rue Halleboule, Strasbourg, département du Bas Rhin, for "A perpetual almanack."—Dated 11th March, 1859.

1205. François Ménaille, of Strasbourg, département du Bas Rhin, for "Manufacture of saddle bows of bulls' pizzles."—Dated 12th March, 1859.

1206. Charles Damien, of Valenciennes, département du Nord, for "Venetian blinds."—Dated 22nd March, 1859.

1207. Alfred Fondeur Daire, of Amiens, département de la Somme, for "Hermetic axles."—Dated 18th March, 1859.

1208. Joseph Depoilly, of Escarbotin, département de la Somme, for "Improvements in locks."—Dated 18th March, 1859.

1209. Jean Hippolyte Chrysostôme Nourry, of Courtezon, département de la Vaucluse, for "A scutcher for silk mills." — Dated 19th March, 1859.

1210. Louis Félix Adolphe Lambert, of Meleux, département de Seine et Marne, for "A match case."—Dated 22nd March, 1859.

1211. Ferdinand Verdier, of Sauveterre de Guyenne, département de la Gironde, for "Improvements in the striking work of clocks." — Dated 21st March, 1859.

1212. Arnaud Gibert, of 63, Rue des Joliblierès, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 3rd January, 1859, for "A railway break."—Dated 21st March, 1859.

1213. Junius Bizet-Pireyze, of Thiers, département du Puy de Dôme, a Certificate of Addition to his Patent of 30th March, 1858, for "Manufacture of lining plates of knives."—Dated 16th March, 1859.

1214. Léon Guittart, of 37, Rue des Amidonniers, Toulouse, département de la Haute Garonne, for "A motor."—Dated 21st March, 1859.

1215. Jean Baptiste Porte, of 6, Rue des Capucins, Lyon, département du Rhône, for "Lithographic printing on soft felt and other hats."—Dated 21st March, 1859.

1216. Jean Baptiste Sarry, of 45, Cours Morand, Lyon, département du Rhône, a Certificate of Addition to his Patent of 19th December, 1856, for "A machine for throwing silk and other textile substances."—Dated 22nd March, 1859.

1217. Abdon Delpech, of Agen, département de Lot et Garonne, for "A system applicable to shooting guns for guiding the shot." — Dated 22nd March, 1859.

1218. François Menais, of 50, Rue du Grand-Cansera, Bordeaux, département de la Gironde, for "An amalgama of meta's, called 'mastic metals.'"—Dated 23rd March, 1859.

1219. Jean Laraumandy, of 103, Avenue de Saxe, Lyon, département du Rhône, for "An hydro-aero-motive engine." — Dated 23rd March, 1859.

1220. Piérre Nau, of Berson, département de la Gironde, for "Using iron and steel."—Dated 23rd March, 1859.

1221. Camilly De Baecker, domiciled with Launoy-Lefebvre, of 55, Rue Basse, Lille, département du Nord, a Certificate of Addition to his Patent of 14th March, 1859, for "An apparatus for planting beans and other seeds."—Dated 23rd March, 1859.

1222. Joseph Moret-Bailly, of Latour du Miex, département du Jura, for "Improvements in metal foot coverings, as patented 19th March, 1857."—Dated 19th March, 1859.

1223. Oudinot and Delarbre, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manure."—Dated 12th March, 1859.

1224. Jaloureau, of 17, Rue de Douai, Paris, a Certificate of Addition to his Patent of 30th December, 1857, for "Manufacture of pipes."—Dated 12th March, 1859.

1225. Fiege, Truchard, and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Ornamenting lamps."—Dated 12th March, 1859.

1226. John Fielden, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, for "Improvements in constructing and winding up bobbins of cotton, flax, silk, wool, or other filamentous substances."—Dated 12th March, 1859.—(English Patent, 6th September, 1872.)

1227. Charles Jean Marie Lavigne, of 61, Rue de Grenelle, Grenelle, a Certificate of Addition to his Patent of 8th March, 1855, for "Apparatus and instruments for amusing children."—Dated 14th March, 1859.

1228. Marie Henri Joseph Argoud, of 8, Place de la Corderie, Paris, for "A system of moderator lamps with moveable cups."—Dated 14th March, 1859.

1229. François Philippe Pin, of 32, Rue Sedaine, Paris, for "Folding tables."—Dated 14th March, 1859.

1230. Philippe Antoine Mathieu, domiciled with Dr. Tampier, of 7, Rue de la Boule Rouge, Paris, for "Water dust baths."— Dated 14th March, 1859.

1231. Adolphe Xavier Laplace, of 9, Rue de la Vielle Estrapade, Paris, for "Submarine boats."—Dated 14th March, 1859.

1232. Louis François Xavier Barthélemy de la Fléchelle, of 27, Rue Lamartine, Paris, for "Revolving smoking pipes with several charges."—Dated 14th March, 1859.

1233. Henri Rovin, represented by Damourette, of 66, Rue St. Lazare, Paris, a Certificate of Addition to his Patent of 21st June, 1858, for "An harvesting and mowing machine."—Dated 14th March, 1859.

1234. Jean Pierre Dardier, represented by Amouroux, of 333, Rue St. Martin, Paris, for "Cutting gloves."—Dated 14th March, 1859.

1235. Louis Mathieu, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Obtaining mists of medicamental waters or other liquids."—Dated 14th March, 1859.

1236. Augustin Castellvi, represented by Mathieu, of 45. Rue St. Sébastien, Paris, for "Railway breaks."—Dated 14th March, 1859.

1237. The Company l'Alliance, represented by Mathieu, of 45, Rue Sébastien, Paris, a Certificate of Addition to his Patent of 10th July, 1858, for "Improvements in magneto-electric machines."—Dated 14th March, 1859.

1238. Segismond Leoni, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Manufacture of objects, surfaces, and parts of machinery and apparatus, &c. from talc and other silicates of magnesia."—Dated 14th March, 1859.—(English Patent, expiring 24th November, 1872.)

1239. Mesdames Egrefeuil, represented by Egrefeuil, of 5, Rue Coquenard, Paris, for "A box for bonbons."—Dated 14th March, 1859.

1240. Marie Balthazar Dulac, of 42, Rue du Faubourg du Temple, Paris, for "A system of labels."—Dated 14th March, 1859.

1241. François Théophile Moison, domiciled with Cressent, of 147, Rue du Faubourg St. Denis, Paris, for "A system of cranes."—Dated 14th March, 1859.

1242. Lauzanne, senr. and junr., of 24, Rue de la Poterie, Paris, for "Improvements in coffee mills."—Dated 14th March, 1859.

1243. Pierre Marmay, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An alimentary substance, and preparing the same."—Dated 14th March, 1859.

1244. Joseph Pomeyrol, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Jointed mountings of canes, umbrellas, parasols, horse whips, &c."—Dated 14th March, 1859.

1245. Cabasson, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 28th September, 1855, for "A system of envelope papers, &c."—Dated 14th March, 1859.

1246. François Joseph Wallet, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in constructing and ornamenting glass, especially for lighting apparatus."—Dated 14th March, 1859.

1247. Albert Cyprien Carpentier, of 19, Rue du Grand-Prieuré, Paris, for "An apparatus for stretching thread."—Dated 15th March, 1859.

1248. Victor Armand Prou, of 29, Rue de Sèvres, Paris, for "An hydro-atmospheric lever for working switches and signal disks on railways, by themselves."—Dated 15th March, 1859.

1249. Wright, senr. and junr., represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in machines and apparatus used in preparing tissues and other substances for fixing eyes and hooks thereon."—Dated 15th March, 1859.—(English Patent, expiring 9th September, 1872.)

1250. Charles Emmanuel, of 17, Rue Dugay-Trouin, Paris, a Certificate of Addition to his Patent of 15th March, 1858, for "A motor called dynamic battery."—Dated 15th March, 1859.

1251. Edmond Armand Louis d'Argy, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A system of rings for curtains, &c."—Dated 15th March, 1859.

1252. Isidore Hayem, of 28, Rue de Cléry, Paris, for "A kind of cravat and collar."—Dated 16th March, 1859.

1253. Thomas Piatti, of 6, Rue du Croissant, Paris, for "Cushions."—Dated 16th March, 1859.

1254. François Philippe Pin, of 32, Rue Sedaine, Paris, a Certificate of Addition to his Patent of 14th March, 1859, for "A kind of folding table."—Dated 16th March, 1859.

1255. Alexandre Giacobbi, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 21st August, 1858, for "A controlling or registering apparatus for public carriages."—Dated 16th March, 1859.

1256. Joseph Doreau, of 6, Rue du Grand Hurleur, Paris, for "A kind of stereoscope."—Dated 16th March, 1859.

1257. Louis Alexandre Levert, of 22, Rue du Chevaleret, Gare d'Ivry, for "A distilling apparatus for charring wood in piles, in forests, &c."—Dated 16th March, 1859.

1258. Prosper Alexandre, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Grates with moveable bars."—Dated 16th March, 1859.

1259. Gastal, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Globes of oil and other lamps, with external relief ornaments."—Dated 16th March, 1859.

1260. George Guillaume Saussner, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Pastel pencils called 'creta-polycolor pencils.'"—Dated 16th March, 1859.

1261. Charles Rochaz, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Breech-loading fire-arms."—Dated 16th March, 1859.

1262. Alexis Maupoix, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A thrashing machine and horse gin."—Dated 16th March, 1859.

1263. John Aspinall, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in refining sugar."—Dated 16th March, 1859.

1264. Nicolas Alexis Grumel, of 13, Rue Montorgueil, Paris, for "Dyeing cotton with black colours."—Dated 16th March, 1859.

1265. Mrs. Gérard and Son, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in saws."—Dated 16th March, 1859.

1266. Lion, Grenouville, and Co., of 11, Rue du Grand Chautier, Paris, for "Looped fabrics of one single piece."—Dated 16th March, 1859.

1267. Blanquart de Bailleul and Rives, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "An apparatus for amalgamating precious metals."—Dated 16th March, 1859.

1268. Mrs. Schlose and Brother, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "So-called invisible clasps and arrangements in portemonnaies, pocket-books, and similar objects."—Dated 16th March, 1859.

1269. Corsel and Co., of 40, Rue de l'Echiquier, Paris, for "Apparatus for spinning in general."—Dated 16th March, 1859.

1270. Jules Rival, of 55, Rue Montmartre, Paris, a Certificate of Addition to his Patent of 22nd May, 1858, for "A manometer indicating the specific weight, and combined with a regulator."—Dated 17th March, 1859.

1271. Georges Guillaume Amatus Luer, of 19, Place de l'Ecole de Médecine, Paris, for "A canula, with its extensible appendix, to be used in tracheotomy."—Dated 17th March, 1859.

1272. Favelier and Miss Potet, of 48, Rue Charlot, Paris, for "A system of buckles with internal cap and tongues."—Dated 17th March, 1859.

1273. Gustave Frey, of 12, Quai des Bateliers, Strasbourg, département du Bas Rhin, for "Improvements in letter scales."—Dated 19th March, 1859.

1274. Léon Cabias, senr. and junr., of 42, Rue des Lices, Avignon, département de la Vaucluse, a Certificate of Addition to his Patent of 19th January, 1858, for "Manufacture of inextensible straps and leather."—Dated 22nd March, 1859.

1275. Charles Corsat, of Annonay, département de l'Ardêche, for "A kneading machine for making bread."—Dated 23rd March, 1859.

1276. Charles Perrin, of Vuillafans, département du Doubs, for "A system of pumps with hollow rods and pistons."—Dated 23rd March, 1859.

1277. Charles Guffroy, of 27, Quai de la Basse-Deûle, Lille, département du Nord, a Certificate of Addition to his Patent of 14th September, 1857, for "Improvements in smoke-consuming fireplaces."—Dated 24th March, 1859.

1278. Joseph Buisneau, represented by Bouillon, of 2, Quai de Billy, Paris, for "A kind of bottle-stand."—Dated 17th March, 1859.

1279. Maret Marquis de Bassano, represented by Kann, of 65, Rue de la Verrerie, Paris, for "A machine for compressing coal."—Dated 17th March, 1859.

1280. Victor Delperdange, represented by Ulliel, of 3, Rue Cadet, Paris, for "A reflector for lanterns or street lamps."—Dated 17th March, 1859.

1281. Boccard alias Boccardo, domiciled with Leroy, of 8, Rue de Ménars, Paris, a Certificate of Addition to his Patent of 24th March, 1858, for "A bronze compound obtained by an alloy of zinc and red copper."—Dated 17th March, 1859.

1282. Hippolyte Charlon, of 2, Rue Boursault, Paris, for "A system of lighting."—Dated 17th March, 1859.

1283. François Charles Mongin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 8th January, 1859, for "Manufacture of saws."—Dated 17th March, 1859.

1284. Jean Baptiste Henri Vignier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for polishing stoppers, flacons, and other vessels."—Dated 17th March, 1859.

1285. Sculfort and Meurice, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A boring machine with gearings."—Dated 17th March, 1859.

1286. Louis Lemaignen, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 2nd November, 1858, for "An economical process for manufacturing cloth."—Dated 17th March, 1859.

1287. James Doherty, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in buttons or fastenings of dresses."—Dated 17th March, 1859.—(English Patent, expiring 7th April, 1872.

1288. Adolph Fliniaux, of 27, Rue des Martyrs, Paris, for "Manure."—Dated 17th March, 1859.

1289. Jean Henry Gueury, of 22, Rue Corbeau, Paris, for "A counting apparatus for games at billiards."—Dated 18th March, 1859.

1290. Maurier Félix Perfumo, of 2, Rue de la Rivière, Grenelle, for "Preparing oil for lubricating machinery."—Dated 18th March, 1859.

1291. John Emes, represented by Castelbon, of 15, Passage des Petites Ecuries, Paris, for "Portable beds, which may be converted into sofas, chairs, or arm-chairs."—Dated 18th March, 1859.

1292. Antoine Ferdinand Fabritius, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in coach-building."—Dated 18th March, 1859.

1293. Delarivière and Martin, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of cocks."—Dated 18th March, 1859.

1294. Paul Alexandre Baudet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Closing bottles."—Dated 18th March, 1859.

1295. Pierre Pinson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Manufacture of wheel tyres of railway carriages and of other circular pieces."—Dated 18th March, 1859.

1296. Enoch Fielding, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Preserving the shape of thread bobbins by using adherent substances."—Dated 18th March, 1859.

1297. Molinos and Pronnier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 12th November, 1855, for "A system of boilers for locomotives, &c."—Dated 18th March, 1859.

1298. Gustave Keller, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 8th February, 1856, for "Travelling bags."—Dated 18th March, 1859.

1299. Georges Moser, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A plate with an indicating dial, applicable to all clockworks."—Dated 18th March, 1859.

1300. Eugène Coanet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An instrument for taking the measure of the hand for gloves."—Dated 18th March, 1859.

1301. Alphonse Alexandre Julien Bonnin, of 59, Rue de Grenelle St. Germain, Paris, a Certificate of Addition to his Patent of 25th March, 1858, for "A cock with eccentric packings."—Dated 19th March, 1859.

1302. Félix Joseph Faucon, of 44, Rue Caumartin, Paris, a Certificate of Addition to his Patent of 20th March, 1858, for "An apparatus for consuming gas and smoke."—Dated 19th March, 1859.

1303. Neustadt and Bonnefond, the former of 71, Rue de Chabrol, the latter of 7, Rue de Bruxelles, Paris, for "A system of taps."—Dated 19th March, 1859.

1304. Sloat and Thomas, represented by Fringant, of 12, Rue de Provence, Paris, for "Improvements in sewing machines."—Dated 19th March, 1859.—(American Patent, expiring 7th September, 1872.)

1305. Tredoulut, senr., and Malvesin, senr., of 29, Rue Réaumur, Paris, for "Heads of dolls of vulcanized india rubber."—Dated 19th March, 1859.

1306. Toussaint and Brossard, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in steel springs."—Dated 19th March, 1859.

1307. James Wetherilt, represented by Barrault, of 29, Boulevart St. Martin, Paris, for "Improvements in locks."—Dated 19th March, 1859.—(English Patent, expiring 1st March, 1873.)

1308. Louis Noël Winderling, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in artificial teeth and sets of teeth."—Dated 19th March, 1859.

1309. Etienne Buot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Protecting vines in plains from frosts in spring."—Dated 19th March, 1859.

1310. Auguste Amédée Bellain, of 27, Rue Michel-le-Comte, Paris, for "Improvements in boiling apparatus for boxes containing preserved food."—Dated 19th March, 1859.

1311. Gillot Brothers, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 2nd December, 1858, for "A hook-clasp, &c."—Dated 19th March, 1859.

1312. Bourget and Doyen, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Relief printing of silk plush."—Dated 19th March, 1859.

1313. François Philippe Ferro, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 15th January, 1859, for "Manufacture of pulp."—Dated 19th March, 1859.

1314. François Marchal, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus, called 'obturator,' for preventing any excess in steam pressure, applicable to locomotives and fixed engines."—Dated 19th March, 1859.

1315. Jean Baptiste Molozay, of 40, Rue St. Maur, Paris, for "An apparatus for rubbing."—Dated 19th March, 1859.

1316. Marie Maxime Sigean, of 71, Rue du Temple, Paris, for "Clasps for bags, portemonnaies, &c."—Dated 21st March, 1859.

1317. Agathon Ruffier-Danche, of 28, Petite Rue St. Pierre Amelot, Paris, a Certificate of Addition to his Patent of 16th March, 1858, for "A

kind of portemanteau."—Dated 21st March, 1859.

1318. Thomas Guinier, of 23, Rue de Grenelle, St. Honoré, Paris, a Certificate of Addition to his Patent of 6th January, 1853, for "Improvements in waterclosets, &c."—Dated 21st March, 1859.

1319. Charles Auguste Boisset, of 246, Rue du Faubourg St. Antoine, Passage du Génie, Paris, for "Iron Venetian blinds with moveable blades, which may be worked from the inside of apartments without opening the window."—Dated 21st March, 1859.

1320. Jean Clair Ancelle, domiciled with Thévenard, of 11, Rue Notre Dame des Victoires, Paris, for "A manipulator for injured workmen."—Dated 21st March, 1859.

1321. Pierre Alliot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in drain pipes."—Dated 21st March, 1859.

1322. Desforges and Dufour, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in metallic chairs."—Dated 21st March, 1859.

1323. Sarazin and Vincent, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for working skins for hats, sheaths, bookbinding, &c."—Dated 21st March, 1859.

1324. André François Emile Robert, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of balloons which cannot be disinflated."—Dated 21st March, 1859.

1325. Thomas Bailey, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Mechanical movement applicable to loading fire-arms, and to other purposes."—Dated 21st March, 1859.

1326. James Spence, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of steel, and in furnaces employed thereat."—Dated 21st March, 1859.

1327. Joseph Staal, of Rue d'Orléans, Batignolles, a Certificate of Addition to his Patent of 24th December, 1858, for "Inodorous apparatus closed hermetically."—Dated 21st March, 1859.

1328. Jacques Aillaud and Co., of 87, Boulevart Chave, Marseille, département des Bouches du Rhône, for "Toe-topic, or means of destroying corns."—Dated 17th March, 1859.

1329. Pierre Garraud, of Lacouronne, département de la Charente, for "Mechanism for regulating the motion in looms."—Dated 21st March, 1859.

1330. Thomas Scott, of 34, Rue d'Ebeuf, Rouen, département de la Seine Inférieure, a Certificate of Addition to his Patent of 2nd March, 1859, for "A condensor with plain surfaces."—Dated 22nd March, 1859.

1331. Charles Horblin, of 17, Route de Bordeaux, Faubourg St. Cybard, for "Twisted and woven gauze-wire."—Dated 22nd March, 1859.

1332. Victor Doat, of Alby, département du Tarn, for "A mechanical automotor."—Dated 23rd March, 1859.

1333. François Bourrel, of 31, Rue St. Rome, Toulouse, département de la Haute Garonne, for "Plaited hats and caps."—Dated 23rd March, 1859.

1334. Danion and Co., of Lambezellie, département du Finistère, for "An oscillating steelyard."—Dated 24th March, 1859.

1335. Danion and Co., of Lambezelle, département du Finistère, for "An oscillating steelyard."—Dated 24th March, 1859.

1336. Joseph Toussaint Caussemille, of 12, Boulevart de la Gare, Marseille, département des Bouches du Rhône, for "Applying banana and abaca textile substances to the manufacture of oil bags."—Dated 24th March, 1859.

1337. Arsène Olivier, of Valence, département de la Drôme, a Certificate of Addition to his Patent of 27th November, 1858, for "Improvements in drawing raw silk."—Dated 24th March, 1859.

1338. Louis Jean Baptiste Nicolle, of Tonnerre, département de l'Yonne, for "An aerial motor or means of utilizing the wind for propelling locomotives."—Dated 25th March, 1859.

1339. Antoine Edouard Chilliat, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 7th March, 1859, for "A continuous system of twisting silk and of whirls."—Dated 21st March, 1859.

1340. Pierre Louis Alexis Boillot, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of wax, and its manufacture."—Dated 21st March, 1859.

1341. Claude François Neyret, of 12, Rue Michel le Comte, Paris, for "Barret watch-keys."—Dated 22nd March, 1859.

1342. Louis André Narcisse Billard, of 102, Rue du Temple, Paris, for "A system of keys and heads of keys."—Dated 22nd March, 1859.

1343. Mathieu alias Plessy, represented by Arrault, of 4, Rue de l'Empereur, Montmartre, for "Improvements in dyeing and printing cotton and other tissues."—Dated 22nd March, 1859.

1344. Jules Amand Marie Bretonnière, domiciled with Dubois, of 60, Rue de Chaillot, Paris, for "Conveying vessels across an isthmus or a portion of land without using a canal."—Dated 22nd March, 1859.

1345. Henri Bosshart, of 87, Rue de Ménilmontant, Paris, for "An apparatus for collecting power and a motor."—Dated 22nd March, 1859.

1346. François Buvert, domiciled 26, Rue de Lille, Paris, for "An apparatus for protecting persons from flames in fires."—Dated 22nd March, 1859.

1347. Louis Ansoult, of 12, Rue de Paris, Belleville, for "A machine for preparing cream and ices."—Dated 22nd March, 1859.

1348. Auguste Constantin Aimable Bertrand, domiciled with Dreyfous, of 54, Rue de Bondy, Paris, for "A kind of cigaret paper."—Dated 22nd March, 1859.

1349. Jacques Mathys, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A

sewing machine called 'Sourdine.'"—Dated 22nd March, 1859.

1350. Dollier Brothers, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 14th September, 1857, for "A mixture for reviving and polishing varnished leather, &c."—Dated 22nd March, 1859.

1351. Dollier Brothers, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Stoppers and adherent brushes for flacons or vessels containing varnish or other products."—Dated 22nd March, 1859.

1352. François Martin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 8th April, 1858, for "A machine for splitting hides."—Dated 22nd March, 1859.

1353. Charles François Mongin, of 11, Rue des Juifs, Paris, a Certificate of Addition to his Patent of 8th January, 1859, for "Manufacture of saws."—Dated 23rd March, 1859.

1354. Sylvain Nadaud, of 5, Rue Villedo, Paris, for "Applying borate."—Dated 23rd March, 1859.

1355. Henry Meidinger, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 22nd November, 1858, for "An absolutely steady electrical battery."—Dated 23rd March, 1859.

1356. Augustin Lejeune, of 57, Rue de la Mare, Belleville, for "Reading and stamping machine with free punches."—Dated 23rd March, 1859.

1357. Jean Louis Bertin, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, for "Mounting bars of rests for windows and balconies."—Dated 23rd March, 1859.

1358. Denis Isidore Gion, of 7, Rue de la Paix, Paris, for "Metal pieces for dental prothesis, mounted with pierced mineral teeth, and fixed on the remaining teeth by means of wooden pins."—Dated 23rd March, 1859.

1359. Fauconnier and Durand, of 15, Avenue Parmentier, Paris, for "A machine for pugging and beating beton or earth work in the construction of walls, houses, dikes, &c."—Dated 23rd March, 1859.

1360. Pierre Labat, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to his Patent of 10th December, 1856, for "Improvements in the composition and manufacture of buckles."—Dated 23rd March, 1859.

1361. Claude Arnoux, of 8, Rue de Tournon, Paris, for "An arrangement for introducing jointed carriages into the railway service."—Dated 23rd March, 1859.

1362. Edouard Armand Louis d'Argy, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in percussion lights."—Dated 23rd March, 1859.

1363. Elisa Blanchard, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 29th January, 1858, for "Combinations in lamps."—Dated 33rd March, 1859.

1364. George Laurent Koch, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in photographic apparatus."—Dated 23rd March, 1859.

1365. Benoist Joseph Gosteau-Bondy, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, a Certificate of Addition to his Patent of 10th May, 1850, for "A candlestick containing matches, &c."—Dated 23rd March, 1859.

1366. Jean Marchal, of 200, Rue d'Allemagne La Villette, for "Lace coverings of flacons, called 'ameristic flacons.'"—Dated 24th March, 1859.

1367. Gaspard Aubebt Schwickardi, of 59, Rue de Cléry, Paris, for "So-called 'hygienic feet-warmers.'"—Dated 24th March, 1859.

1368. Amélie Goutard Thévenot, of 19, Rue Neuve Ménilmontant, Paris, for "A kind of tournure."—Dated 24th March, 1859.

1369. Tournaire and Cochet, of 63, Rue St. Maur Popincourt, Paris, for "A sugar rasp."—Dated 24th March, 1859.

1370. Louis Lequeu, of 71, Rue du Faubourg St. Antoine, Paris, a Certificate of Addition to his Patent of 25th March, 1858, for "A machine for spinning cane."—Dated 24th March, 1859.

1371. Nicolas Basset, domiciled with Roquelaine, of 62, Rue Notre Dame de Lorette, Paris, for "A peculiar process for defecating and discolouring must, juice, and sugar substances without using animal charcoal, being applicable to sugar works, refining, and distilling."—Dated 24th March, 1859.

1372. Séraphin Macle, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Preparing purified lac dye."—Dated 24th March, 1859.

1373. Conrad Rauschenbach, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of pins."—Dated 24th March, 1859.

1374. James Merrill, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in breech-loading fire-arms."—Dated 24th March, 1859.

1375. Delarivière and Martin, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in fixed and portable hydraulic pumps."—Dated 24th March, 1859.

1376. Théophile François Pincon, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "A system of horse collars, &c."—Dated 24th March, 1859.

1377. Louis Mathieu, of 82, Rue de l'Ecole de Médicine, Paris, a Certificate of Addition to his Patent of 14th March, 1859, for "A process for obtaining a mist of medicamental and other waters."—Dated 24th March, 1859.

1378. Michel Keller, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 2nd June, 1858, for "Improvements in the manufacture of artificial marble."—Dated 24th March, 1859.

1379. Lerouge and Bouquié, of 6, Rue Laffitte, Paris, for "A machine for making blocks for sleepers."—Dated 24th March, 1859.

1380. Riotto and Daniel, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A tube for protecting the points of pencils and pens." Dated 25th March, 1859.

1381. Charles Marien Rouillier, of 24, Rue St. Bernard, Paris, for "Manufacture of glue."—Dated 25th March, 1859.

1382. Antoine Laroze, of 8, Rue d'Enghien, Paris, a Certificate of Addition to his Patent of 10th March, 1859, for "Purifying and assimilating phosphate of fossil lime."—Dated 25th March, 1859.

1383. Maxime Renon, of 68, Rue de Rivoli, Paris, for "A projecting apparatus."—Dated 25th March, 1859.

1384. Benoit Dupont, of 12, Rue de la Pompe, Paris, for "A gold case."—Dated 25th March, 1859.

1385. Séraphine Volat, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 11th April, 1857, for "Improvements in tournure petticoats."—Dated 25th March, 1859.

1386. Charles François Bailly, of 61, Quai de l'Ecole, Paris, a Certificate of Addition to his Patent of 3rd November, 1858, for "A machine for washing and drying linen."—Dated 26th March, 1859.

1387. Petin, Gaudet, and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Manufacture of cranked axles."—Dated 26th March, 1859.

1388. Théophile Redeuil, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 3rd May, 1858, for "Manufacture of sanitary biscuit."—Dated 26th March, 1859.

1389. Julek Brossard, of 15, Rue de Sèze, Lyon, département du Rhône, for "Finishing shawls by means of cold water and pressure."—Dated 25th March, 1859.

1390. Pierre Théophile Berton, of 3, Rue de Bouillon, Angers, département de Maine et Loire, for "A mechanism for covering and uncovering plank-wings of windmills."—Dated 26th March, 1859.

1391. Michel Alleyme, of Nantua, département de l'Ain, for "Flattening massive and compact points of horn for the manufacture of combs."—Dated 28th March, 1859.

1392. Heitz and Flieg, of Thann, department du Haut Rhin, for "A double turbine (by superposition and juxtaposition)."—Dated 23rd March, 1859.

1393. Joseph Gervais, of Auxerre, département de l'Yonne, for "A system of hydraulic pressure."—Dated 25th March, 1859.

1394. Antoine Coudert, of Firminy, département de la Loire, for "A process for straightening axles of railway carriages without removing the wheels."—Dated 26th March, 1859.

1395. Paul Raquet, of 25, Rue de la Monnaie, Troyes, département de l'Aube, for "A scraping machine."—Dated 26th March, 1859.

1396. Jean Louis Laplanche, of Place du Pilori, Nantes, département de la Loire Inférieure, for "Moulding foot coverings of gutta percha combined with leather."—Dated 28th March, 1859.

1397. Stanislas Ludet, of Aussonce, département des Ardennes, for "A system of templets."—Dated 29th March, 1859.

1398. Xavier Misdon, of Vannoz, département du Jura, for "An open-worked beating machine, with a moveable grate for separating balls and grain from straw, and ventilator for cleaning corn, &c."—Dated 25th March, 1859.

1399. Gaspard François Devarenne, of Méru, département de l'Oise, for "Counters."—Dated 26th March, 1859.

1400. Alexandre Gressy, senr. and junr., of Carnac, département du Morbihan, for "Working varech in all seasons."—Dated 26th March, 1859.

1401. Philippe Patard, of Laversines, département de l'Oise, for "An hydraulic and atmospheric engine."—Dated 26th March, 1859.

1402. Cochut and Marandon, of Tauxierès, département de la Marne, for "A thrashing mill." Dated 26th March, 1859.

1403. Pierre Louis Tavernier, of Evreux, département de l'Eure, a Certificate of Addition to his Patent of 14th September, 1857, for "A universal sowing machine."—Dated 28th March, 1859.

1404. Jacques Raymond, of La Bastide, banlieue de Bordeaux, département de la Gironde, for "A system of oblique keels for vessels."—Dated 28th March, 1859.

1405. Alfred Raymondière, of 1, Rue Beausejour, Nantes, département de la Loire Inférieure, for "Bars of furnaces."—Dated 29th March, 1859.

1406. Théodore Ulmer, of 66, Rue des Trois Conils, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 12th August, 1858, for "A system of axles with graduated journals and cylinder boxes."—Dated 29th March, 1859.

1407. Pierre Joseph Demarne, of 76, Rue Tilsit, Marseille, département des Bouches du Rhône, for "Beds with elastic bottoms, and without mattresses."—Dated 25th March, 1859.

1408. John Davis, represented by Zacharie, of 40, Rue de Bourbon, Lyon, département du Rhône, a Certificate of Addition to his Patent of 3rd May, 1858, for "Improvements in cornets à pistons, &c."—Dated 28th March, 1859.

1409. Servant Devienne and Co., of 21, Rue des Capucins, Lyon, département du Rhône, for "A kind of quilting."—Dated 29th March, 1859.

1410. Servant Devienne and Co., of 21, Rue des Capucins, Lyon, département du Rhône, for "Lined fabrics of lace-work."—Dated 29th March, 1859.

1411. Jacques Lacombe, of 29, Chemin du Sacré-Cœur, Lyon, département du Rhône, for "A suspension knee for the navy."—Dated 29th March, 1859.

1412. Claude François Boulanger, of Fallon, département de la Haute Saône, for "A continuous pressing machine."—Dated 30th March, 1859.

1413. Joseph Hugand, of Charlieu, département de la Loire, a Certificate of Addition to his Patent of 6th November, 1856, for "A sewing and embroidering machine."—Dated 30th March, 1859.

1414. Pierre Frédéric Boyer, of 10, Faubourg du Pont, Béziers, département de l'Hérault, for "Improvements in portable boilers for scalding vines for the purpose of destroying pyralidae."—Dated 28th March, 1859.



PRUSSIA.*

List of Patents Delivered and Annulled between the 1st March and 15th April, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. Patents Delivered.

1. W. Spindler, of Berlin, for an "Apparatus for lustring dyed silk."—5 years.—Dated 6th April, 1859.

2. H. F. Eckert, of Berlin, for "A machine for gathering potatoes."—5 years.—Dated 8th April, 1859.

3. T. Fanter, of Berlin, for "A combined veneer-cutting and planing machine."—5 years.—Dated 28th March, 1859.

2. Patents Annulled.

1. J. H. F. Prillwitz, of Berlin, for an imported invention of "An apparatus for pressing peat."—Dated 28th January, 1858.—Annulled 17th March, 1859.

2. J. G. Hofmann, of Breslau, for "A machine for cutting substances used in the manufacture of paper."—Dated 2nd November, 1857.—Annulled 21st April, 1859.

3. F. Timpe, of Rheine, for "A brick-machine."—Dated 30th July, 1858.—Annulled 3rd Jannary, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

Erratum in Journal of 3rd May.

For No. "154" read No. "144."

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in each Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*

2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*

3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*

4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638. Price 8*d.*

5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*

6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset, Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II c.* 12. *A.D.* 1663.) Price 4*d.*

7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent, No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*

8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will, III. c.* 31, *A.D.* 1699.) Price 1*s.*

9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*

10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*

11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March*, 1744.) Price 1*s.*

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THE

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No. 558. TUESDAY, MAY 10, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

2962. FREDERICK WILLIAM TURNER, of Foxhole Colliery, Swansea, in the county of Glamorgan, Mechanical Engineer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in steam engines, condensers, and steam boilers, and in promoting combustion in the furnaces of the same."

As set forth in his petition, recorded in the said office on the 27th day of December, 1858.

2989. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in washing and drying machinery and apparatuses."—A communication from S. Charles, residing at Paris.

2990. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in revolving fire-arms."—A communication from L. F. Devisme, residing at Paris.

2991. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in machines for embroidering."—A communication from B. G. Dutel, residing at St. Quentin, France.

2992. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in machinery for splitting or dividing hides, skins, leather, and other like materials."—A communication from F. Martin, residing at Paris.

As set forth in his respective petitions, recorded in the said office on the 30th day of December, 1858.

3001. And MATTHEW DIGBY WYATT, of Guildford Street, Russell Square, in the county of Middlesex, Architect, has given the like notice in respect of the invention of "Improvements in tiles and tessaræ and other wall coverings, and in the means of securing the same to walls and buildings."

As set forth in his petition, recorded in the said office on the 31st day of December, 1858.

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1. And JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, has given the like notice in respect of the invention of "An improved mode of making and fittings bungs to casks and other vessels."—A communication.

3. And ALBAN ANDERSON, of Lancaster, Fairfield County, Ohio, United States of America, has given the like notice in respect of the invention of "An improvement in governors for machinery."

4. And BENOÎT JOSEPH GOSTEAU, of 2, Rue Sainte Appoline, Paris, in the empire of France, and of 45, Essex Street, Strand, London, Merchant, has given the like notice in respect of the invention of "An improved gridiron, which may form a complete cooking-apparatus."

5. And JOSEPH EUGÈNE DROUOT, Baker, of 2, Rue Ste. Appoline, Paris (empire of France), and of 45, Essex Street, Strand, London, has given the like notice in respect of the invention of "Improvements in bakers' ovens."

12. And PIERRE EMMANUEL GUÉRINOT, of 60, Boulevart de Strasbourg, Paris, Mechanician Jeweller, has given the like notice in respect of the invention of "Improvements in the application of an apparatus to railway locomotives, waggons,

and carriages, for the purpose of lessening the effect of concussion in the event of collision."

17. And JAMES HARRIS, of Hanwell, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in apparatuses for regulating the pressure and flow of steam, water, and other fluids."

19. And GEORGE SKINNER, of Stockton-on-Tees, county of Durham, Earthenware Manufacturer, and JOHN WHALLEY, of South Stockton-on-Tees, county of York, Earthenware Manufacturer, have given the like notice in respect of the invention of "Improvements in the manufacture of ornamental and other tiles, and other similar articles."

22. And ALEXANDRE LOUIS LÉVÈQUE, of Paris, France, Gentleman, has given the like notice in respect of the invention of "An improved apparatus for subduing or stopping run-away or restive horses."

23. And JOSEPH BOND MORGAN, of Liverpool, in the county of Lancaster, Cotton Broker, has given the like notice in respect of the invention of "Improvements in propelling navigable vessels."

As set forth in their respective petitions, all recorded in the said office on the 1*st day of January*, 1859.

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24. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "New economical candles." — A communication from Adolphe Michaut, residing at Montpelier, in the empire of France.

30. And JACOB FURNIVAL, of Leamington, in the county of Warwick, THOMAS FURNIVAL, of Cobridge, JOHN DERBYSHIRE, of Longton, and FRANCIS JOSEPH EMERY, of Burslem, all in the county of Stafford, have given the like notice in respect of the invention of "Improvements in apparatus for supporting articles of china and earthenware in kilns and ovens."

As set forth in their respective petitions, both recorded in the said office on the 3*rd day of January*, 1859.

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33. And JOHN BARNETT JOYCE, of Bradford, in the county of York, Machine and Tool Maker, has given the like notice in respect of the invention of "Improvements in means, machinery, or apparatus applicable to wool combing."

34. And WILLIAM HOOD, of 68, Upper Thames Street, in the city of London, Iron Merchant, has given the like notice in respect of the invention of "Improvements in racks and water cisterns for stables."

35. And ALFRED BEDBOROUGH, of the town and county of the town of Southampton, Architect and Surveyor, has given the like notice in respect of the invention of "An improved chimney cowl and ventilator."

As set forth in their several petitions, all recorded in the said office on the 4*th day of January*, 1859.

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39. And JAMES HOWARD, of Bedford, Agricultural Implement Maker, has given the like notice in respect of the invention of "An improved construction of lever-neck plough."

40. And ROBERT RUMNEY, of Manchester, in the county of Lancaster, Manufacturing Chemist, and WILLIAM STEVENSON MACDONALD, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in printing and dyeing woven fabrics, and yarns or threads."

As set forth in their respective petitions, all recorded in the said office on the 5*th day of January*, 1859.

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51. And WILLIAM SPENCE, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in the mode of taking photographic pictures on wood." — A communication from Charles B. Boyle, residing in the United States of America.

As set forth in his petition, recorded in the said office on the 7*th day of January*, 1859.

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60. And HENRY HARDEN, of Dundalk, in the county of Louth, Ireland, Locomotive Superintendent to the 'Dublin and Belfast Junction Railway Company,' has given the like notice in respect of the invention of "Improvements in fire-bars for steam boiler and other furnaces."

As set forth in his petition, recorded in the said office on the 8*th day of January*, 1859.

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100. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "A new or improved metallic alloy."

101. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of cast steel."

As set forth in his petitions, both recorded in the said office on the 12*th day of January*, 1859.

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121. And THOMAS SAMPSON, of Calle Cartaños, No. 8, Barcelona, Spain, has given the like notice in respect of the invention of "Improvements in apparatus for feeding steam boilers with water."

As set forth in his petition, recorded in the said office on the 13*th day of January*, 1859.

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132. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in the manufacture of cast steel."

134. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of cast steel."

As set forth in his petitions, both recorded in the said office on the 15*th day of January*, 1859.

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141. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement in sewing machines."—A communication from Elias Howe, junior, of Brooklyn, in the United States of America.

As set forth in his petition, recorded in the said office on the 17*th day of January*, 1859.

234. And William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement in life preserving vests."—A communication from T. A. Delano, residing in the United States of America.
As set forth in his petition, recorded in the said office on the 25th day of January, 1859.

253. And William Crowther, of Leeds, in the county of York, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of prussiates of potash, or soda, and in recovering a useful material therefrom."
As set forth in his petition, recorded in the said office on the 27th day of January, 1859.

310. And Henry Constantine Jennings, of No. 8, Great Tower Street, in the city of London, Practical Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of paper and artificial parchment, and of gelatine, applicable to the sizeing of the same, and other purposes."
As set forth in his petition, recorded in the said office on the 3rd day of February, 1859.

332. And Nathaniel Greenhalgh, of Bolton, in the county of Lancaster, Cotton Spinner, and William Shaw, of the same place, Cotton Spinner, and James Mallison, junior, of the same place, Yarn Agent, have given the like notice in respect of the invention of "Certain improvements in the treatment and preparation of yarns or threads previously to dyeing."
As set forth in their petition, recorded in the said office on the 5th day of February, 1859.

443. And Henry Young Darracott Scott, of Brompton Barracks, Chatham, in the county of Kent, Captain in the Royal Engineers, has given the like notice in respect of the invention of "An improvement in the manufacture of cement."
As set forth in his petition, recorded in the said office on the 17th day of February, 1859.

594. And William Gossage, of Widnes, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improvements in the treatment of certain ores of copper for the extraction of metals therefrom."
As set forth in his petition, recorded in the said office on the 7th day of March, 1859.

715. And George Gregg, of Sheffield, in the county of York, Currier, has given the like notice in respect of the invention of "Improvements in currying or manufacturing leather."
As set forth in his petition, recorded in the said office on the 21st day of March, 1859.

939. And Ebenezer Partridge, of Stourbridge, in the county of Worcester, Engineer and Ironfounder, has given the like notice in respect of the invention of "An improvement in the manufacture of 'pipe' boxes for cart and wagon axles."
As set forth in his petition, recorded in the said office on the 14th day of April, 1859.

961. And John Sidebottom, of Broadbottom, near Mottram, in the county of Chester, Cotton Spinner and Manufacturer, has given the like notice in respect of the invention of "Improvements in the construction of tubes and partial tubes, and in machinery or apparatus for placing them on the spindles of machines used in spinning, doubling, winding, and warping, also improvements in machinery for making such tubes and partial tubes."
As set forth in his petition, recorded in the said office on the 16th day of April, 1859.

988. And Alexander William Williamson, of University College, London, has given the like notice in respect of the invention of "Improvements in making extracts from liquorice root."
As set forth in his petition, recorded in the said office on the 19th day of April, 1859.

997. And Lucius Phelps Porter, of New York, has given the like notice in respect of the invention of "Improvements in knitting machinery."—A communication from abroad by Joseph R. Kilbourn and Edward E. Kilbourn, of Norfolk, in the county of Litchfield and state of Connecticut.
As set forth in his petition, recorded in the said office on the 20th day of April, 1859.

1005. And David Auld, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for supplying steam boilers with water."

1009. And George Roberts and John Bridges, of No. 20, Ponsonby Place, Vauxhall Bridge Road, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in the manufacture of candles."
As set forth in their respective petitions, both recorded in the said office on the 21st day of April, 1859.

1017. And James Gillies, of Glasgow, in the county of Lanark, North Britain, Wood Turner, has given the like notice in respect of the invention of "Improvements in branding or marking wood for casks, barrels, and other purposes."

1023. And William Gibson, of St. Leonards Road, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in steering apparatus."
As set forth in their respective petitions, both recorded in the said office on the 23rd day of April, 1859.

1047. And William Marshall, of Leith Walk, in the county of Mid-Lothian, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines."
As set forth in his petition, recorded in the said office on the 26th day of April, 1859.

1057. And James Randal Smith, of Glasgow, in the county of Lanark, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in obtaining motive power."
As set forth in his petition, recorded in the said office on the 27th day of April, 1859.

1075. And William McIntyre Cranston, of No. 11, New Broad Street, London, Agent, has given the like notice in respect of the invention of "A grass cutting machine."—A communication from abroad by Walter Abbot Wood, of Hoosick Falls, county of Rensselaer, state of New York, America.
As set forth in his petition, recorded in the said office on the 29th day of April, 1859.

1110. And Jedediah Morse, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "An improved power printing press."

1111. And Lyman Reed Blake, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "A new and useful or improved machine for sewing a sole on a boot or shoe."
As set forth in their respective petitions, both recorded in the said office on the 3rd day of May, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

10th May, 1859.

2258. John Saxby, Engineer, of Brighton, Sussex, for an invention of "Improvements in apparatus for working signals on railways."—Dated 11th October, 1858.

2518. John Corner, of 15, Artillery Place, and 16, City Road, Finsbury Square, London, Boot and Shoe Manufacturer, for an invention of "Improvements in machinery for making metallic screw rivets, and for uniting with them parts of boots, shoes, portmanteaus, leather hose, buckets, harness, and other leathern articles."—Dated 10th November, 1858.

2520. William Garnett Taylor, of Ashby-de-la-Zouch, in the county of Leicester, for an invention of "Improvements in removing the fur from skins, and preparing said skins for tanning."—Dated 10th November, 1858.

2524. Abraham James Brooks, of Southsea, in the county of Hants, Solicitor, for an invention of "An improvement in screw propellers."—Dated 10th November, 1858.

2527. Charles Tiot Judkins, of No. 32, York Road, Lambeth, in the county of Surrey, Engineer, for an invention of "Improvements in gas regulators."—Dated 10th November, 1858.

2534. Thomas Gray, of Bride Lane, in the city of London, for an invention of "An improvement in separating wool and animal fibres from vegetable fibres contained in mixed fabrics."—Dated 11th November, 1858.

2542. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "An improved apparatus for illustrating conic sections and the lines of the globe."—Dated 12th November, 1858.

2546. William Ashton, of Preston, in the county of Lancaster, and Thomas Cartmell, of the same place, Engineers, for an invention of "Improvements in air pumps, part of which improvements is also applicable to the pistons of other pumps and of steam engines."—Dated 13th November, 1858.

2560. Thomas Robert Butcher, Frederick Stevens, William Thomas Johnson, and Theophilus Jarvis, of Frome, in the county of Somerset, Pianoforte Action Manufacturer, for an invention of "Improvements in the hammer rails of pianofortes."—Dated 15th November, 1858.

2588. Michael Scott, of 3, Stanhope Terrace, Hyde Park Gardens, in the county of Middlesex, for an invention of "Improvements in the construction of breakwaters, parts of which are applicable in making other structures."—Dated 17th November, 1858.

2594. John Platt, of Oldham, in the county of Lancaster, Mechanical Engineer, and Harry Chubb, of Brecknock Crescent, Camden Town, in the county of Middlesex, Gentleman, for an invention of "Improvements in machinery or apparatus for making bricks or tiles."—Partly a communication from abroad.—Dated 17th November, 1858.

2604. John Leslie, of Conduit Street, St. George's Hanover Square, in the county of Middlesex, for an invention of "Improvements in the manufacture of gas."—Dated 18th November, 1858.

2630. Thomas Stokes Cressey, of High Street, Homerton, in the county of Middlesex, for an invention of "Improvements in machinery used in the manufacture of casks."—Dated 19th November, 1858.

2666. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for making bolts and rivets."—Dated 24th November, 1858.

2692. William Richards, of the Gas Works, Barcelona, in the kingdom of Spain, Engineer, but now of Harpur Street, Red Lion Square, in the county of Middlesex, for an invention of "Improvements in the construction of gas meters."—Dated 26th November, 1858.

2700. Hugh Lee Pattinson, of Stotes Hall, Jesmond, Newcastle-upon-Tyne, for an invention of "Improvements in utilizing the heat of slags of iron and other works."—Dated 27th November, 1858.

2784. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Certain improvements in grain and grass harvesting machines."—Dated 4th December, 1858.

2792. John Dawson, of Holbeck, in the parish of Leeds, in the county of York, Machine Maker, for an invention of "Improvements in machinery or apparatus for raising the nap on woollen cloths."—Dated 6th December, 1858.

2964. Richard Hornsby, junior, of Spittlegate Iron Works, Grantham, in the county of Lincoln, for an invention of "Improvements in ploughing and tilling land by steam power, and in apparatu employed therein."—Dated 27th December, 1858.

380. Benjamin Burrows, of Leicester, for an invention of "Improvements in looms for weaving narrow fabrics."—Dated 10th February, 1859.

570. William Tucker, of the state of Massan chusetts, of the United States of America, for an invention of "An improvement in bit stocks or augur handles."—Dated 3rd March, 1859.

580. John Leigh, of the city of Manchester, in the county of Lancaster, Surgeon, for an invention of "Improvements in the purification of coal gas."—Dated 5th March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 7th May, 1859, inclusive.*)

5th May.

1088. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved construction of rotary pump."—A communication.—Dated 8th May, 1856.

1287. Alfred Watson and Alfred Hamlyn Williams, of Cornhill, in the city of London, Stationers, for an invention of "An improvement in bottles, flasks, and other like receptacles for liquids."—Dated 31st May, 1856.

6th May.

1113. Bartholomew Beniowski, of Bow Street, Covent Garden, in the county of Middlesex, Esquire, for an invention of "Improvements in typographical composition, and in the manufacture of logotypes to be used therein."—Dated 10th May, 1856.

7th May.

1076. Louis Guillaume Perreaux, of 16, Rue M. le Prince, in the city of Paris, in the empire of France, Engineer, for an invention of "An improved valve."—Dated 8th May, 1856.

1095. Ferdinand Potts, Tube Manufacturer, of Birmingham, in the county of Warwick, and Thomas Vann, Wire Worker, of Cheapside, Birmingham, in the same county, for an invention of "Certain machinery for ornamenting, floating, burnishing, and polishing metallic tubes, part of which machinery is also applicable for performing the like operation upon other metallic surfaces."—Dated 9th May, 1856.

1099. William Basford, of No. 16, Talbot Road, Kentish Town, in the county of Middlesex, for an invention of "Improvements in apparatus for purifying coal gas."—Dated 9th May, 1856.

1101. George Simpson, of Leather Lane, London, for an invention of "Improvements in rotary knife-cleaning machines."—Dated 9th May, 1856.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
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Parma, Piacenza, and Guastalla, No. 321.
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Roman States, No. 319.
Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
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Spain, No. 323.
Sweden, Nos. 327 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

1415. PIERRE ETIENNE BRISSON, of 21, Rue du Boulon, Orléans, département du Loiret, for "A suspension mill in which alone the upper millstone is revolving."—Dated 31st March, 1859.

1416. CHARLES MARÉ, of 98, Quai de la Fosse, Nantes, département de la Loire Inférieure, for "Closing all kinds of vessels for preserving food or other substances."—Dated 31st March, 1859.

1417. CAMION Brothers, of Vivier au Court, département des Ardennes, for "An eccentric movement in presses for making small iron articles."—Dated 1st April, 1859.

1418. CHARLES LEROY and DURAND, of La Maison-Blanche, 25, Route de Fontainebleau, Gentilly, for "Treatment of fat substances."—Dated 26th March, 1859.

1419. DOMINIQUE BOCCASINI, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of coke from lignite."—(Austrian Patent, expired 20th November, 1873.)—Dated 26th March, 1859.

1420. GIBUS and Son, of 40, Rue Beaubourg, Paris, for "A kind of plaited silk hats."—Dated 26th March, 1859.

1421. JOSEPH DELEUIL, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Colouring and drying wood."—Dated 26th March, 1859.

1422. CHRISTOPHE ADRIEN THIRY, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in apparatus for galvanizing and tinning iron."—Dated 26th March, 1859.

1423. JOSEPH DELEUIL, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in garden seats."—Dated 26th March, 1859.

1424. ALLMAYER and SCHLOSS, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A portemonnaie called 'gold regulator.'"—Dated 26th March, 1859.

1425. FRÉDÉRIC DREYFOUS, of 28, Rue du Sentier, Paris, for "Manufacture of mixed fabrics with designs obtained by means of printed and cut-out tissues which are inserted into the weft."—Dated 26th March, 1859.

1426. GUSTAVE AUGUSTE BESSON, of 7, Rue des Trois Couronnes, Paris, a Certificate of Addition to his Patent of 18th January, 1855, for "Improvements in brass instruments."—Dated 26th March, 1859.

1427. FRANÇOIS BARTHÉLEMY LOUBATIÈRES, domiciled 18, Rue St. Honoré, Grand Hôtel Atlantique, Paris, for "Economical oil-cloth."—Dated 28th March, 1859.

1428. ALPHONSE ALEXANDRE GEORGE, of 59, Rue Saintonge, Paris, a Certificate of Addition to his Patent of 27th December, 1858, for, "Feeding steam-boilers, &c."—Dated 28th March, 1859.

1429. WELDON and WEIL, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "An improved machine for making buttons."—Dated 28th March, 1859.

1430. DE MIRANDOL, of Nogent sur Marne, for "Ornamenting mirrors by means of decorative and artistic painting, drawing, engraving, lithography, and photography."—Dated 28th March, 1859.

1431. ANTOINE BERTAUDIN, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of teeth of weavers' combs."—Dated 28th March, 1859.

1432. THUILLIER and STAUDINGER, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in blanc-stamp presses, dies, punching machines, &c."—Dated 28th March, 1859.

1433. HIPPOLYTE MILLET, represented by Le Blanc, 2, Rue Ste. Appoline, Paris, for "Improvements in working horn for making buttons and similar articles."—Dated 28th March, 1859.

1434. EMMANUEL JULIEN CHARLES HAVOUIS, of 24, Rue St. Germains, Charonne, for "Improvements in felt hats."—Dated 28th March, 1859.

1435. HUGUIS CHAMPONNOIS, of 8, Rue de la Jussienne, Paris, a Certificate of Addition to his Patent of 13th December, 1858, for "Extracting sugar from beetroot and other sugar plants, &c."—Dated 28th March, 1859.

1436. MARIÉ DUMAS DUCAU, of 81, Boulevart Montparnases, Paris, for "A system of lithographic rollers."—Dated 28th March, 1859.

1437. CERF-MAYER, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for crushing solid ink and all kinds of tinctorial substances to be sold in powder."—Dated 28th March, 1859.

1438. GUILLAUME EDOUARD PELLERIN, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his

* For the French Patent Law see No. 228 of this Journal.

Patent of 19th April, 1858, for "An hydraulic closing for sewers, &c."—Dated 28th March, 1859.

1439. Pierre François Toly, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 6th August 1858, for "Improvements in apparatus for obtaining, drying, and superheating steam."—Dated 28th March, 1859.

1440. Jean Marie Benoit, of 26, Rue Penthièvre, Paris, for "A case for smoking pipes."—Dated 29th March, 1859.

1441. Jean Baptiste Badinier, of 12, Rue du Parc, Vaugirard, for "A sort of cracknel."—Dated 29th March, 1859.

1442. Jean Baptiste Deplasse, with Desruisseaux, of 22, Rue de Cléry, Paris, for "Weaving looped fabrics."—Dated 29th March, 1859.

1443. Opperman and Foret, of 8, Rue de Ménars, Paris, for "Economical iron bridges."—Dated 29th March, 1859.

1444. Etienne Martel, of 7, Rue de Nemours, Paris, for "Improvements in cast copper nails."—Dated 29th March, 1859.

1445. Richard Knight, represented by Basset, of 14, Boulevart Montmartre, Paris, a Certificate of Addition to his Patent of 21st November, 1856, for "Improvements in apparatus for making gaseous liquids."—Dated 29th March, 1859.

1446. Choumara and Echard, the former of Montmartre, the latter of 142, Rue St. Lazare, Paris, for "A sewing machine."—Dated 29th March, 1859.

1447. Durand and Pradel, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Machines worked by means of air and fluids compressed through fulminating gases."—Dated 29th March, 1859.

1448. Durand and Pradel, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of pavement for boulevarts, alleys, foot-pavements."—Dated 29th March, 1859.

1449. Messager alias Messager-Abit, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 17th January, 1859, for "Manufacture of carpets, &c."—Dated 29th March, 1859.

1450. Jean Victor Lucas, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Manufacture of common prussiate of potash and cyanuret of potassium."—Dated 29th March, 1859.

1451. Guinon, Marnas, and Bonnet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 31st March, 1858, for "Obtaining and applying a product called 'French purple,' &c."—Dated 29th March, 1859.

1452. Taverne Brothers, represented by Mathieu, of 55, Rue St. Sébastien, Paris, for "Improvements in the manufacture of scales."—Dated 29th March, 1859.

1453. Goudenove and Féret, of 60, Rue Neuve St. Augustin, Paris, for "Candle tubes for gas-lights."—Dated 29th March, 1859.

1454. François Joseph Antoine Zœgger, of 70, Rue St. Victor, Paris, for "Manufacture of ribbons for all kinds of orders."—Dated 30th March, 1859.

1455. Edmond Désiré Pesier, domiciled with Dubois, of 21, Rue Jacob, Paris, a Certificate of Addition to his Patent of 28th February, 1859, for "Modifications in the manufacture of sugar."—Dated 30th March, 1859.

1456. François Pradier, of 83, Rue du Bac' Paris, for "A system of taps."—Dated 30th March, 1859.

1457. Constant Jouffroy Duméry, of 26, Boulevart de Strasbourg, Paris, for "Improvements in steam generators."—Dated 30th March, 1859.

1458. Lecampion, Théroulde, and Laurot, of 67, Rue Caumartin, Paris, for "Manufacture of soda from wrack."—Dated 30th March, 1859.

1459. Bouillon, Muller, and Co., of 33, Rue de Chabrol, Paris, for "A drying calorifere stove."—Dated 30th March, 1859.

1460. Henri Jérémie Christen, of 6, Rue Neuve d'Orléans, Montrouge, a Certificate of Addition to his Patent of 11th September, 1858, for "Improvements in fire-engines and other pumps."—Dated 30th March, 1859.

1461. Henri Jérémie Christen, of 6, Rue Neuve d'Orléans, Montrouge, a Certificate of Addition to his Patent of 11th June, 1856, for "A compressing machine."—Dated 30th March, 1859.

1462. Victor Benjamin Constant Vannier, represented by Bonneville, of 39, Rue de l'Echiquier, Paris, for "A gilding process."—Dated 30th March, 1859.

1463. François Frédéric Dumarchey, represented by Bonneville, of 39, Rue de l'Echiquier, Paris, for "A machine for breaking stones and other substances."—Dated 30th March, 1859.

1464. Sébastien Ley, of 2, Rue de la Fidélité, Paris, a Certificate of Addition to his Patent of 8th December, 1858, for "A system of gas burners."—Dated 30th March, 1859.

1465. Sébastien Ley, of 2, Rue de la Fidélité, Paris, a Certificate of Addition to his Patent of 20th December, 1858, for "A gas carburator."—Dated 30th March, 1859.

1466. Jean Victor Carbon, of 53, Rue Bourbon Villeneuve, Paris, a Certificate of Addition to his Patent of 1st May, 1858, for "Trusses."—Dated 30th March, 1859.

1467. Claude Villard, represented by Mathieu, of 35, Rue St. Sébastien, Paris, for "Improvements in the manufacture of garden seats and similar objects."—Dated 30th March, 1859.

1468. Raymond de Mendiri, of Issoire, département du Puy de Dôme, a Certificate of Addition to his Patent of 15th March, 1858, for "A mould for making cigarets."—Dated 12th March, 1859.

1469. Ernest Wœhner, of Savenne, département du Bas Rhin, for "A stone-cutting machine."—Dated 28th March, 1859.

1470. Gabriel Guichard, of La Viotte, banlieu de Besançon, département du Doubs, for "A

system of ratchet file-cutter."—Dated 31st March, 1859.

1471. Pierre Moreaud, of Tocaate St. Apre, département de la Dordogne, for "An aerostatic apparatus."—Dated 31st March, 1859.

1472. Chaland, Benoit, and Co., domiciled with Renaud, of 3, Rue la Bombarde, Lyon, département du Rhône, a Certificate of Addition to their Patent of 9th June, 1858, for "Manure for mending clay soil, &c."—Dated 31st March, 1859.

1473. Pierre Bonnet, of Beaucaire, département du Gard, for "A desk, called 'orpheon desk.'"—Dated 31st March, 1859.

1474. Paul Louis Armand Cappeau, of 55, Rue St. Marc, Avignon, département de la Vaucluse, for "Obtaining the colouring principle of madder."—Dated 1st April, 1859.

1475. Paul Louis Armand Cappeau, of 55, Rue St. Marc, Avignon, département de la Vaucluse, for "A madder product called 'flower garancine.'"—Dated 1st April, 1859.

1476. Michel Gautier, of 31, Rue du Cornet, Angers, département de Maine et Loire, for "A stop for cocks of fire-arms."— Dated 1st April, 1859.

1477. Edouard Bauthière-Paquet, domiciled with Louis Watelle, of 14, Rue de Tournay, Lille, for "A system of benches for glass pots in stretching furnaces."—Dated 2nd April, 1859.

1478. Edouard Cuttier, of St. Brice, département de la Marne, for "A system of bobbin holders."—Dated 1st April, 1859.

1479. Jules Alphonse Valois, of Evreux, département de l'Eure, for "A kneading machine."—Dated 1st April, 1859.

1480. Auguste Aubert, of La Villette, département de la Loire Inférieure, for "Improvements in scissors, sectors, and shears."—Dated 2nd April, 1859.

1481. Edme Montenot, of Ampeilly le Sec, département de la Côte d'Or, for "A sowing machine combined with a hoe."—Dated 2nd April, 1859.

1482. Théophile Poncet, of St. Laurent en Grandvaux, département du Jura, for "A digging harrow."—Dated 2nd April, 1859.

1483. Claude Bernier, of Place de l'Homme de la Roche, Lyon, département du Rhône, for "A churn."—Dated 2nd April, 1859.

1484. Lanet, Imbert, and Co., of St. Julien en Jarrét, département de la Loire, for "A modification in vertical boilers."—Dated 2nd April, 1859.

1485. Henri Duinat, of Rue Ste. Anne, Maison Heldin, Lyon, département du Rhône, for "A loom for making two pieces of double-piled plush at the same time."—Dated 2nd April, 1859.

1486. Jean Marie Bidon, of 11, Rue St. Marcel, Lyon, département du Rhône, for "A registering and regulating apparatus for fabrics."—Dated 2nd April, 1859.

1487. Monnet and Dury, of Rue des Fossés Baraban, Lyon, département du Rhône, for "Means of preparing a colouring substance, called 'harmaline.'"—Dated 2nd April, 1859.

1488. Richard Brothers, of St. Chamond, département de la Loire, for "A kind of bobbin for lace."—Dated 4th April, 1859.

1489. Faure and Tillon, of 6, Rue des Arts, St. Etienne, for "A mechanism for applying grooved silk stuffs to plain velvet ribbons made on looms for double pieces."—Dated 4th April, 1859.

1490. Laval and Gravier, of Nîmes, département du Gard, for "Improvements in high warp velvet."—Dated 31st March, 1859.

1491. Ferdinand Ladreyt, of Montélimar, département du Drôme, a Certificate of Addition to his Patent of 6th April, 1858, for "A planing machine, &c."—Dated 31st March, 1859.

1492. Beck and Quidet, of 21, Rue Patalier, Elbeuf, département de la Seine Inférieure, a Certificate of Addition to his Patent of 14th March, 1855, for "An undulating frizing machine with various movements."—Dated 1st April, 1859.

1493. Merlent and Fialon, of 3, Rue Ville Verte, Aix, département des Bouches du Rhône, for "Impervious unsized hats of double felt."—Dated 1st April, 1859.

1494. Louis Isidore Bastard-Lanoy, represented by Blanchet, of Beauvais, département de l'Oise, for "Application of sculpture in the manufacture of fans."—Dated 2nd April, 1859.

1495. Pierre Moussy-Teysset, of 1, Rue du Grand Moulin, St. Etienne, département de la Loire, a Certificate of Addition to his Patent of 27th September, 1858, for "So-called 'escapement locks.'"—Dated 4th April, 1859.

1496. Louis Léon Ramally, of Autun, département de Saône et Loire, for "A system of lamps for lighting carriages, and for domestic purposes."—Dated 5th April, 1859.

1497. Louis Jean Baptiste Maximilian Sagette, of Saints-en-Puisage, département de l'Yonne, a Certificate of Addition to his Patent of 29th April, 1856, for "Improvements in ploughs."—Dated 5th April, 1859.

1498. Joseph Antoine Dalmas, of 44, Rue Haute Rotonde, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 21st April, 1858, for "Inodorous closets, &c."—Dated 1st April, 1859.

1499. Balthazard-Sabin Papillon, of Belford, département du Haut Rhin, for "An economical smoke-consuming fire-grate."—Dated 2nd April, 1859.

1500. Zénon Kaeppelin, of Thann, département du Haut Rhin, for "Improvements in fly frames."—Dated 2nd April, 1859.

1501. Prosper Guérin, of Alais, département du Gard, for "A machine for moulding hollow tiles, bricks, and brick pavements."—Dated 4th April, 1859.

1502. Gallois-Foucault, of St. Martin, Ile de Ré, département de la Charente Inférieure, for "Automatic bells for preventing collisions at sea, and for buoys."—Dated 4th April, 1859.

1503. Louis Victor Molard, of Manouviller, département de la Meurthe, for "A machine for crushing willows."—Dated 5th April, 1859.

1504. Mathieu Blacet, of 7, Rue de Lyon, St. Etienne, département de la Loire, for "Improvements in Davy's safety lamps."—Dated 5th April, 1859.

1505. Augustin Morel, of Roubaix, département du Nord, for "A safety cleaning apparatus."—Dated 6th April, 1859.

1506. Maximilien Corneby, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for distilling essence of turpentine, and for obtaining colophony."—Dated 30th March, 1859.

1507. Pierre François Millot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An hydraulic wheel with a reservoir." — Dated 30th March, 1859.

1508. Louis Christopher and Jules Tornier, of 21, Quai d'Austerlitz, Paris, for "An hydraulic machine."—Dated 31st March, 1859.

1509. William Rédgrave, represented by Rowlanck, of 224, Rue de Rivoli, Paris, for "Improvements in travelling caps."—Dated 31st March, 1859. —(English Patent, expiring 26th March, 1873.)

1510. Jean Baptiste Augustin Camus, of 8, Rue Vendôme, Paris, for "A kind of cigar and match case."—Dated 31st March, 1859.

1511. Ernest Georges Xavier Boileau, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Arrangements in steam apparatus for marine and other engines." — Dated 31st March, 1859.

1512. Antoine Roy, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of cartridges for breech-loading fire-arms."—Dated 31st March, 1859.

1513. Henry Adolphe Archereau, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 11th August, 1856, for "Improvements in conglomerating coal." —Dated 31st March, 1859.

1514. Moissant and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 10th April, 1858, for "Extracting oil for lighting and lubricating, and hydro-carburetted gas from natural bitumen of the West Indies."—Dated 31st March, 1859.

1515. Charles Joseph Emile Pavy, domiciled Hôtel du Louvre, Paris, a Certificate of Addition to his Patent of 6th December, 1858, for "An economical granary."—Dated 31st March, 1859.

1516. Louis Prosper Reynaud and Jules Peuchant, of 107, Rue de Montreuil, Paris, for "A wrench."—Dated 31st March, 1859.

1517. Joseph Louis Tenting, domiciled with Moinier, of 11 et 13, Rue de Marseille, La Villette, for "Improvements in axles of railway carriages." —Dated 1st April, 1859.

1518. Théodore Antoine Musset, of 64, Rue Ménilmontant, Paris, for "Mounting blinds."—Dated 1st April, 1859.

1519. Louis Théodore Le Bailly, of 26, Rue des Rosiers, Paris, for "Improvements in gas-burners."—Dated 1st April, 1859.

1520. Stanislas Hoga, William Peter Piggott, and Septimus Beardomore, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in electric telegraphs." —Dated 1st April, 1859.—(English Patent, expiring 17th November, 1872.)

1521. James Davis, represented by Amouroux, of 333, Rue St. Martin, Paris, for "Improvements in machines worked by air, gas, or steam."—Dated 1st April, 1859.—(English Patent, expiring 6th July, 1872.)

1522. Henry Cartwright, represented by Amouroux, of 333, Rue St. Martin, Paris, for "Improvements in the construction of steam engines."— —Dated 1st April, 1859.—(English Patent, expiring 3rd April, 1872.)

1523. Alexandre Taylor, represented by Amouroux, of 333, Rue St. Martin, Paris, for "Improvements in the construction of pianos and other musical instruments." — Dated 1st April, 1859.

1524. Georges Lutz, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A machine for making coal cakes."—Dated 1st April, 1859.

1525. Louis Martin Systermans, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Self-acting railway signals."—Dated 1st April, 1859.

1526. Pierre Benoist Léopold Charpentier, of 17, Rue Gaillon, Paris, for "A machine for sawing and breaking sugar."—Dated 1st April, 1859.

1527. Francis Wrigley, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A self-acting coupling apparatus." — Dated 1st April, 1859.—(English Patent, expiring 1st November, 1872.)

1528. Louis Auger, represented by Barrault, of 333, Boulevart St. Martin, Paris, for "Improvements in tobacco pouches."—Dated 1st April, 1859.

1529, Jules Gilbert Bernard, of 54, Rue de Seine, Paris, for "A kind of writing materials."— Dated 1st April, 1859.

1530. E. Chabrier and Co., of 23, Rue Olivier St. Georges, Paris, for "Making roads of compressed asphalt."—Dated 1st April, 1859.

1531. François Joseph Laurent Steger, of 40, Boulevart de Sébastopol, Paris, for "A grate for steam boilers."—Dated 1st April, 1859.

1532. Henri Adolphe Corbin, of 6, Rue d'Isly, Paris, for "A system of stereoscopes with combined mirrors and lenses."—Dated 1st April, 1859.

1533. Emile Peltier, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to his Patent of 12th February, 1858, for "Manufacture of metal boxes and vessels for preserved food."—Dated 1st April, 1859.

1534. Alfred Edme Egrot, of 266, Rue du Faubourg St. Martin, Paris, a Certificate of Addition to his Patent of 30th August, 1855, for "An apparatus for making extracts of drugs."—Dated 1st April, 1859.

1535. Jules Guyot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 31st March, 1856,

for "Manufacture of straw mats for protecting vines and plants, &c."—Dated 1st April, 1859.

1536. Louis Joseph Fouchée, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "An apparatus for melting grease and other offals of slaughter-houses."—Dated 1st April, 1859.

1537. Emile Constant Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 31st January, 1859, for "Purifying natural lime."—Dated 1st April, 1859.

1538. Pierre Etienne Jacquemin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A mechanical arrangement for transforming motion, being applicable especially to agricultural machines."—Dated 1st April, 1859.

1539. Pierre Etienne Jacquemin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in harvesters."—Dated 1st April, 1859.

1540. Jean Delmas, of 16, Rue Galande, Paris, for "Closing shutters of shops."—Dated 2nd April, 1859.

1541. Alexandre Auguste Périer and Louis Antoine Possoz, domiciled with Descours, of 1, Rue de Provence, Paris, a Certificate of Addition to their Patent of 26th February, 1859, for "Improvements in the manufacture of sugar."—Dated 2nd April, 1859.

1542. Félix Pagella, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Hinged buttons."—Dated 2nd April, 1859.

1543. John Piddington, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in making butter, and in apparatus employed thereat."—Dated 2nd April, 1859.—(American Patent, expiring 8th February, 1873.)

1544. Joseph Douis Edouard Klein and Jules Parfait Roger, of 46, Boulevart Pigalle, Montmartre, for "A rotary vice, applicable to the manufacture of foot-coverings, &c."—Dated 2nd April, 1859.

1545. John Wallace Duncan and James Eglinton Anderson Gwynne, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in apparatus for obtaining and condensing steam, said apparatus being also applicable to other purposes."—Dated 2nd April, 1859.—(English Patent, expiring 18th March, 1873.)

1546. Isidore Démée, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A frame for cutting photographic proofs."—Dated 2nd April, 1859.

1547. Jules Pacôme Alfred Havard, of 7, Cité du Wauxhall, Paris, for "A portable apparatus for filtering water for armies and households."—Dated 2nd April, 1859.

1548. Jean Baptiste Courtois-Delétang, with Boblique, à la Villette, a Certificate of Addition to his Patent of 31st January, 1857, for "Manufacture of three colours from three mineral substances, to be employed in oil or water-colours."—Dated 2nd April, 1859.

1549. Thomas Wheeler, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, for "Improvements in machines for washing, wringing, or drying, pressing, and mangling linen, &c."—Dated 2nd April, 1859.

1550. Louis Jean Baptiste Letestu, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for making packing-cases."—Dated 2nd April, 1859.

1551. Joseph Blackwood-Beasley, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in fire-arms."—Dated 2nd April, 1859.—(English Patent, expiring 18th September, 1872.)

1552. Adolphe Casimir Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in dyeing and finishing yarns and tissues."—Dated 2nd April, 1859.

1553. Louis Lechatelier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 11th August, 1858, for "Manufacture of aluminium."—Dated 2nd April, 1859.

1554. H. Petin, Gaudet, and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of guns for land service and the navy."—Dated 2nd April, 1859.

1555. Jean Ducournau, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 21st November, 1857, for "Improvements in apparatus for crushing stones, ores, &c."—Dated 2nd April, 1859.

1556. Stehelin and Co., represented by Baltz, of Bitschwiller, département du Haut Rhin, a Certificate of Addition to their Patent of 9th July, 1858, for "An apparatus for throwing twisting and other machines out of gear."—Dated 5th April, 1859.

1557. François Crouvezier, of Bechicourt-le-Château, département de la Meurthe, for "A saw for cutting off trees near the ground."—Dated 5th April, 1859.

1558. Martin, Alçuch, and Victor Pelletan, of 1, Place Fondandège, Bordeaux, département de la Gironde, a Certificate of Addition to their Patent of 2nd March, 1858, for "A colouring liquid."—Dated 6th April, 1859.

1559. Gilbert Perreul, of Moulins, département de l'Allier, a Certificate of Addition to his Patent of 29th January, 1858, for "A machine for thrashing corn, peeling and preparing flax and hemp."—Dated 6th April, 1859.

1560. Mordan, Milland, and Co., of 8, Rue de Treiul, St. Etienne, département de la Loire, for "Improvements in tackles used in looms."—Dated 7th April, 1859.

1561. Jules Nicolas Poivret, of 25, Rue du Palais de Justice, Troyes, département de l'Aube, a Certificate of Addition to his Patent of 11th July, 1854, for "A circular knitting frame."—Dated 7th April, 1859.

1562. Béjot-Gandel and Guérin, represented by Blandin, of Maçon, département de Saône et Loire, a Certificate of Addition to their Patent of 9th November, 1858, for "A system of lift and force pumps."—Dated 8th April, 1859.

1563. Jean Baptiste Victor Autier, of Amiens, département de la Somme, for "Using carbonized and alkaline agents for promoting the power of discolouring agents in bleaching textile substances and paste, for bleaching wood and other ligneous and grass plants, for extracting their cellulose, finally for bleaching and purifying the residues obtained in the manufacture of oil."—Dated 4th April, 1859.

1564. Guillaume Crégut, of 353, Boulevart National, Marseille, département des Bouches du Rhône, for "A portable flour-mill."—Dated 5th April, 1859.

1565. Raymond Rouge, of Brugnières, département de la Haute Garonne, a Certificate of Addition to his Patent of 17th August, 1858, for "A machine for obtaining perpetual motion."—Dated 6th April, 1859.

1566. Jean Dominique Napoléon Rambaud, of 23, Rue des Charpennes, Villeurbanne, département du Rhône, for "A ferruginous mordant, called 'green mordant.'"—Dated 6th April, 1859.

1567. Charles Renault, of 12, Rue Dauphine, Bordeaux, département de la Gironde, for "Using debased spirits for lighting streets."—Dated 6th April, 1859.

1568. Louis Kessler, of Metz, département de la Moselle, a Certificate of Addition to his Patent of 8th April, 1858, for "Improvements in the manufacture of fluoric acids."—Dated 6th April, 1859.

1569. François Agnilas Laurent, of 8, Rue des Auffiers, Marseille, département des Bouches du Rhône, for "A diving-bell for submarine works."—Dated 6th April, 1859.

1570. Jules Eugène Roussel, of Longis, département de la Seine et Marne, for "An improved rocking plough."—Dated 6th April, 1859.

1571. Lodi-Montaigne, of 33, Rue de Lyon, Bordeaux, département de la Gironde, for "A screw transmission chain."—Dated 7th April, 1859.

1572. Etienne Dupuy and Emile Etienne and Labat, junr., of Villandraut, département de la Gironde, for "A system of distilling and purifying resinous substances."—Dated 8th April, 1859.

1573. André Moreau, of Bessac, département des Deux Sêvres, for "A hand harvester for cutting corn along the furrows."—Dated 9th April, 1859.

1574. François Prosper Chatel, of Rue de Rivoli, Hâvre, département de la Seine Inférieure, for "A machine for moulding bricks, crushing clay, and making mortar."—Dated 4th April, 1859.

1575. Auguste Joseph Robert, of 5, Rue de l'Arbalite, Reims, département de la Marne, for "Improvements in Lefaucheux' guns."—Dated 7th April, 1859.

1576. Frédéric Giroud d'Argoud, of 41, Rue du Commerce, Lyon, département du Rhône, a Certificate of Addition to his Patent of 13th April, 1858, for "A system of mills with spheroid millstones, of kneading troughs, and of bread ovens."—Dated 9th April, 1859.

1577. Jean Windsor, of Section de Moulins-Lille, Lille, département du Nord, for "Improvements in machines for preparing substances for spinning."—Dated 9th April, 1859.

1578. Julien Tortel, of Romans, département de la Drôme, for "A machine for straightening, cutting, and pumicing skins for tawing and glove making."—Dated 7th April, 1859.

1579. Théophile Augé, of Auxerre, département de l'Yonne, for "A frame for making trellis-work." Dated 7th April, 1859.

1580. Jean Nicolas Maurice, of 19, Rue St. Rémy, Epernay, département de la Marne, for "A machine for fixing wire hooks on bottles of champagne."—Dated 9th April, 1859.

1581. Auguste Casimir Lehot, domiciled with Rolland, of 15, Rue Vilaine, Caen, département du Calvados, for "A mode of dragging carriages."—Dated 9th April, 1859.

1582. Maudière, of Nouzon, department des Ardennes, for "A machine for polishing fire-irons."—Dated 11th April, 1859.

1583. Etienne Jean Baptiste Mignan, of Lépiné, département de la Marne, for "An hydraulic engine applicable to lift and force pumps."—Dated 11th April, 1859.

1584. Jean Rousseau, of Ambares, département de la Gironde, a Certificate of Addition to his Patent of 12th April, 1858, for "Manufacture of bungs and staves."—Dated 11th April, 1859.

1585. Jules Lecointe, of St. Quentin, département de l'Aisne, a Certificate of Addition to his Patent of 14th April, 1858, for "A system of injection and distribution of hydraulic pressure in presses for making beetroot sugar."—Dated 11th April, 1859.

1586. Jules Lecointe, of St. Quentin, département de l'Aisne, a Certificate of Addition to his Patent of 14th April, 1858, for "A system of injection and distribution of hydraulic pressure in presses for making beetroot sugar."—Dated 11th April, 1859.

1587. Jules Lecointe, of St. Quentin, département de l'Aisne, a Certificate of Addition to his Patent of 14th April, 1858, for "A system of injection and distribution of hydraulic pressure in presses for making beetroot sugar."—Dated 11th April, 1859.

1588. Didier Leloup, of 3, Rue St. Paul, Verdun, département de la Meuse, for "A system of presses."—Dated 12th April, 1859.

1589. Evrard, of Douai, département du Nord, for "A lubricating apparatus applicable to revolving arbors."—Dated 12th April, 1859.

1590. Paul Alexandre Geslin, of 3, Rue de Vendôme, Paris, for "A system of locks."—Dated 4th April, 1859.

1591. Félix Antoine Sédillon, of 8, Rue de Paradis au Marais, Paris, a Certificate of Addition to his Patent of 12th October, 1857, for "A so-called 'friction machine.'"—Dated 4th April, 1859.

1592. Thomas Preston, represented by Basset, of 14, Boulevart Montmartre, Paris, a Certificate of Addition to his Patent of 6th November, 1858, for "Improvements in the manufacture of short nap fabrics on warping frames."—Dated 4th April, 1859.

1593. Jules Nicolas Plançon, of 30, Rue Moret, Paris, a Certificate of Addition to his Patent of

28th September, 1857, for "A machine for making buttons."—Dated 4th April, 1859.

1594. Nicolas Jules Plançon, of 146, Rue St. Maur, Paris, a Certificate of Addition to his Patent of 6th June, 1856, for "Improvements in the manufacture of paper buttons."—Dated 4th April, 1859.

1595. Jacques Henri Marie Maissiat, of the Ecole de Médecine, Paris, a Certificate of Addition to his Patent of 18th February 1857, for "A machine for planting seeds, and especially corn."—Dated 4th April, 1859.

1596. Auguste Emile Joseph Caron, of 22, Rue Neuve Coquenard, Paris, for "A crushing apparatus."—Dated 4th April, 1859.

1597. Marie Rosalie Joséphine Journaux, of 11, Rue d'Arcole, Paris, a Certificate of Addition to his Patent of 18th December, 1856, for "A sewing machine."—Dated 4th April, 1859.

1598. François H. Bell, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in self-priming apparatus for fire-arms."—Dated 4th April, 1859.

1599. Jean Baptiste Heiller, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process of cleaning thread of all kinds of textile and filamentous substances."—Dated 4th April, 1859.

1600. Nicolas Donatien Bourgueil, of 11, Rue des Filles du Calvaire, Paris, a Certificate of Addition to his Patent of 31st August, 1854, for "A crystal salt-cellar with two columns."—Dated 5th April, 1859.

1601. Eugène Antoine Bauzon, of 2, Rue des Couronnes, La Chappelle, St. Denis, for "A system of rakes."—Dated 5th April, 1859.

1602. François Ramonet, of 19 et 20, Rue Jessaint, La Chapelle St. Denis, for "A system of pumps."—Dated 5th April, 1859.

1603. Frederick William Gerhard, with Bishop, of 30, Rue de Rambuteau, Paris, for "Extracting aluminium."—Dated 5th April, 1859.—(English Patent, expiring 8th October, 1872.)

1604. Salomon Millaud, Samson Levy, and Jean Baptiste Alphonse Chevallier, the former two of 43, Boulevart St. Martin, the latter of 27, Quai St. Michel, Paris, for "Manure."—Dated 5th April, 1859.

1605. Hippolyte Bourdon, of 58, Rue de Provence, Paris, a Certificate of Addition to his Patent of 9th June, 1858, for "Apparatus for converting water into fuel."—Dated 5th April, 1859.

1606. Alphonse Louis Hippolyte Féru, of 70, Rue St Jacques, Paris, for "A scarifying apparatus."—Dated 5th April, 1859.

1607. Pierre Ernest River, represented by Bonnet, of 43, Rue Neuve St. Geneviève, Paris, for "A self-feeding fireplace for heating steam boilers by means of coal-dust."—Dated 5th April, 1859.

1608. Théophile Jacques Guillaume Steppe, represented by Fringant, of 10, Rue de Provence, Paris, for "Manufacture of lace of coloured thread."—Dated 5th April, 1859.

1609. François Joseph Bertinchamps, represented by Fringant, of 10, Rue de Provence, Paris, for "A system of iron stop-planks with slides, applicable to constructions, frameworks, &c."—Dated 5th April, 1859.

1610. Henri Justinian Newcome, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in apparatus for heating buildings, for ventilating, drying linen, hot-air stoves, or kitchen stoves."—Dated 5th April, 1859.—(English Patent, expiring 31st January, 1873.)

1611. Olympe Bonhomme, née Payen, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Manufacture of a stuff for making herbs and Delport reeds, called "frivolines.'"—Dated 5th April, 1859.

1612. Antoine Laroze, of 8, Rue d'Enghein, Paris, a Certificate of Addition to his Patent of 31st May, 1858, for "Counters."—Dated 5th April, 1859.

1613. Jean Henry Genixe, of 6, Rue Ste. Marie Blanche, Montmartre, for "A system of moveable keys for ladders."—Dated 5th April, 1859.

1614. Simon Davey and Adolphe Ludovic Chanu, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to their Patent of 22nd November, 1858, for "A composition for working mines, quarries, and extensive railway works."—Dated 5th April, 1859.

1615. Emamond Guer, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 29th January, 1859, for "A mechanical means of instantaneously extinguishing burners fed by liquid gas."—Dated 5th April, 1859.

1616. Anthony Bessemer, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of iron and steel and in apparatus used thereat."—Dated 5th April, 1859.

1617. Lauro Cecconi, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in horns, trumpets, and other wind instruments."—Dated 5th April, 1859.

1618. Alfred Labbé, domiciled 99, Rue St. Lazare, Paris, a Certificate of Addition to his Patent of 16th March, 1857, for "Machines for making horse-shoes."—Dated 6th April, 1859.

1619. George Hamilton and William Henry Nash, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in locks and keys."—Dated 6th April, 1859. — (English Patent, expiring 5th October, 1872.)

1620. Désiré Nicolas Mauclère, of Val d'Osne, département de la Haute Marne, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 14th February, 1859, for "A process of heating drying kilns and rooms by means of the gas of blast furnaces used by radiation of heating surfaces in metal tubes."—Dated 6th April, 1859.

1621. Franz Anton Lohage, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of alloys of aluminium."—Dated 6th April, 1859.

1622. Louis François Clément Breguet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 22nd October, 1856, for "A printing apparatus for electric telegraphs."—Dated 6th April, 1859.

1623. Jean Martin Férafiat, of 17, Rue Phélippeaux, Paris, for "Improvements in toys."—Dated 6th April, 1859.

1624. Louis George Ganser and Louis Drouhin, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A rotary steam-engine."—Dated 6th April, 1859.

1625. Pierre Ernest Couillard and Henri Adolphe Archereau, the former of 1, Rue Laffitte, the latter domiciled with Pocholle, of 16, Rue Neuve St. Eustache, Paris, for "Treatment of ceramic substances."—Dated 6th April, 1859.

1626. Eugène Théodore Moualhier, represented by Layssard, of 17, Rue Notre Dame de Nazareth, Paris, for "An apparatus with a double air-current applicable to various industrial purposes."—Dated 6th April, 1859.

1627. Jean Baptiste Abel Duchesse, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, "A kind of boxes for anti-caritic powder."—Dated 6th April, 1859.

1628. Jules César Poulain, represented by Claès, of 23, Boulevart de Strasbourg, Paris, for "Improvements in apparatus for breaking off slubbings."—Dated 6th April, 1859.

1629. Emile Victor Lemaignen, represented by Claès, of 23, Boulevart de Strasbourg, Paris, for "A process for dyeing cloth and woollen stuffs."—Dated 6th April, 1859.

1630. Louis Heuzé, represented by Claès, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 8th April, 1858, for "A kind of Venetian blinds." — Dated 6th April, 1859.

1631. Pierre Henry, domiciled with Théroude, of 5, Rue de Montmorency, Paris, for "A kind of garden borders of baked clay, called 'geopeptic borders."—Dated 6th April, 1859.

1632. Jean Gourbeyre, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of trousers."—Dated 6th April, 1859,

1633. Auguste Colas, of 21, Rue Vieille St. Germain, Courbevoie, a Certificate of Addition to his Patent of 7th April, 1858, for "A machine for shaping wood."—Dated 7th April, 1859.

1634. Louis Edouard Courvoisier, of 134, Rue de Rivoli, Paris, for "A crinoline sheath."—Dated 7th April, 1859.

1635. Auguste Mathieu, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A mechanical templet."—Dated 7th April, 1859.

1636. Eugène Alpin Napoléon Cadet, of 5, Rue Grénégaud, Paris, a Certificate of Addition to his Patent of 13th March, 1855, for "A system of taps with clack valves and moveable pivots, and for improvements in taps." — Dated 7th April, 1859.

1637. Frédéric Dreyfous, represented by Lévy, of 28, Rue du Sentier, Paris, a Certificate of Addition to his Patent of 26th March, 1859, for "Manufacture of mixed fabrics, with designs obtained by means of printed and cut-out tissues, and which are inserted into the dyed weft of the fabrics."—Dated 7th April, 1859.

1638. Félix Tussaud, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Arrangements in propellors of steam vessels."—Dated 7th April, 1859.

1639. François Ducros, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Increasing the power imparted to machinery."—Dated 7th April, 1859.

1640. Jean Bergeron, of Fléac, département de la Charente, a Certificate of Addition to his Patent of 30th November, 1858, for "An apparatus for distilling wine and other alcoholic substances." — Dated 7th April, 1859.

1641. Alexandre Jacob Herche, of Louviers, département de l'Eure, a Certificate of Addition to his Patent of 18th September, 1858, for "A thrashing machine."—Dated 8th April, 1859.

1642. Bertrand Mandille, of Mont de Marsan, département des Landes, for "A kneading machine worked by compressed air." — Dated 8th April, 1859.

1643. Pierre Moreaud, of St. Apre, département de la Dordogne, for "A wheel-ring."—Dated 9th April, 1859.

1644. Pierre Muller, of Sédan, département des Ardennes, a Certificate of Addition to his Patent of 27th July, 1857, for "A system of weaving."—Dated 13th April, 1859.

1645. Alphonse Fabre and Jules Barnouin, of 30, Rue Rangueil, Nîmes, département du Gard, for "A motor worked by the wind."—Dated 9th April, 1859.

1646. Antoine Ripert, of 4, Rue Silvabelle, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 25th January, 1858, for "A safety break for carriages."—Dated 11th April, 1859.

1647. Pierre and Auguste Buisson, of St. Maime, département des Basses Alpes, for "A kind of tiles, called 'ceiling-tiles.'"—Dated 12th April, 1859.

1648. Jean Baptiste Machet, of Rue du Commerce, Epernay, département de la Marne, for "A screw-jack for drawing off wine." — Dated 12th April, 1859.

1649. François Vouillon, of Louviers, département de l'Eure, a Certificate of Addition to his Patent of 31st December, 1858, for "Manufacture of woollen yarns for warps and wefts."—Dated 12th April, 1859.

1650. François Monneyres, of Prairie au Duc, Nantes, département de la Loire Inférieure, for "A regulator of thrashing machines." — Dated 13th April, 1859.

1651. Auguste Pin, of Castelnaudary, département de l'Aude, for "So-called 'hydraulic paintings.'"—Dated 13th April, 1859.

1652. Jules Brossard, of 15, Rue de Sèze, Lyon, département du Rhône, for "A safety signalling apparatus."—Dated 11th April, 1859.

1653. Jean Vallantin and Hermann Steinberg, of Angoulême, département de la Charente, for "Manufacture of elastic sugar."—Dated 11th April, 1859.

1654. Pierre Gavazzi, represented by Marillier and Charles Buisson, of 21, Place Tholozan, Lyon, département du Rhône, for "An apparatus for cleaning silk."—Dated 12th April, 1859.

1655. Favier and Alibert, of 10, Place Marengo, St. Etienne, département de la Loire, a Certificate of Addition to their Patent of 14th April, 1858, for "A loom for obtaining terry fabrics without dead beat."—Dated 13th April, 1859.

1656. Barthélemy Bayard, of Rive-de-Gier, département de la Loire, a Certificate of Addition to his Patent of 9th April, 1858, for "Manufacture of shovels."—Dated 14th April, 1859.

1657. Pierre Boulicault, of Nolay, département de la Côte d'Or, for "A system of lighting by means of the essence of purified turpentine."—Dated 12th April, 1859.

1658. Jean Laurent, of Moulins, département de l'Allier, for "A system of pumps."—Dated 12th April, 1859.

1659. Denis Nefflier and Pierre Blandin, of Rue Johannin, Dijon, département de la Côte d'Or, for "A slide and cylinder for selling postage stamps."—Dated 12th April, 1859.

1660. Pierre Gidéon Déperche, of Saintes, département de la Charente Inférieure, for "A boiler for distilling."—Dated 13th April, 1859.

1661. Antoine Gaud, of 17, Rue du Loup, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 28th November, 1857, for "A system for using beds on railways."—Dated 14th April, 1859.

1662. Durand and Crozet, of 11, Rue de la Bourse, St. Etienne, département de la Loire, a Certificate of Addition to their Patent of 21st August, 1858, for "Manufacture of undoubled velvet applied to looms for weaving several pieces at once."—Dated 14th April, 1859.

1663. Claude Joseph Périnel, of Entre Deux Guiers, département de l'Isère, a Certificate of Addition to his Patent of 11th February, 1858, for "Manufacture of wheel tyres for railway and other carriages."—Dated 15th April, 1859.

1664. Jean Faure and Charles Brunet, the former of 13, Trottoi d'Amerval, the latter of 13, Rue de l'Hospice, Nancy, département de la Meurthe, a Certificate of Addition to their Patent of 23rd April, 1858, for "A double action lift, and force pump."—Dated 15th April, 1859.

1665. Pierre Auguste Georgene, of Autun, département de Saône et Loire, for "A lime kiln with long flames."—Dated 15th April, 1859.

1666. Alexandre Joseph Guilloteau, domiciled with Mignon, of 38, Place du Théâtre, Lille, département du Nord, a Certificate of Addition to his Patent of 31st January, 1859, for "A system of furnaces for fixed and moveable steam-engines and other industrial purposes."—Dated 15th April, 1859.

1667. Mrs. Daniel and Son, of 14, Rue de Paradis, Marseille, département des Bouches du Rhône, a Certificate of Addition to their Patent of 19th April, 1858, for "A piston with a cylinder bore."—Dated 15th April, 1859.

1668. Auguste Acanthe Boudouresque and Jean Baptiste Romégas, of 84, Cours Lieutand, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 4th December, 1857, for "Double butterfly gas-burners, &c."—Dated 16th April, 1859.

1669. Martial Victor Mouterde-Billion, of Route de Génas, Villeurbane, département du Rhône, for "A kind of oil-cup with a wick."—Dated 15th April, 1859.

1670. Louis Jules Lavergne, of La Porte de la Tranchée, Poitiers, département de la Vienne, for "A press with a triple eccentric, lever, and regulator."—Dated 15th April, 1859.

1671. Antoine Claveloux, domiciled with Sollier, of 10, Rue St. Dominique, Lyon, département du Rhône, for "A system of iron-work for assembling bedsteads and castors."—Dated 16th April, 1859.

1672. Charles Simon, of Charleville, département des Ardennes, for "Manufacture of nails by machinery and by a cold process,"—Dated 16th April, 1859.

1673. Constant Guerin, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in using and applying crape, tulle, &c."—Dated 7th April, 1859.

1674. Ernest Stelzl, of 45, Rue Fontaine-au-Roi, Paris, a Certificate of Addition to his Patent of 26th April, 1858, for "A process of painting without causing smell."—Dated 7th April, 1859.

1675. Claude Larpent, of 39, Rue de Longchamps, Paris, for "A machine for crushing stones."—Dated 7th April, 1859.

1676. Edouard Delcambre, of 14, Rue du Télégraphe, Montmartre, for "Artificial guttapercha flowers."—Dated 7th April, 1859.

1677. Charles François Thibault, of 34, Rue du Rendezvous, St. Mandé, for "A water-gauge."—Dated 7th April, 1859.

1678. Jean Charles Schroder, domiciled with Gibert, of 53, Rue Vivienne, Paris, for "Treatment of molasses for extracting the sugar therefrom."—Dated 7th April, 1859.

1679. Jean Baptiste Diéudonné Lesur, of 112, Route d'Italie, Gentilly, for "Improvements in the manufacture of candles."—Dated 7th April, 1859.

1680. Renard Brothers, domiciled with Jules Duchesnay, Asnières, for "Preparing and using a red colouring substance."—Dated 8th April, 1859.

1681. Seraphin Adolphe Lemaire, of 10, Faubourg, Montmartre, Paris, for "Designs resembling sculpture, and obtained by means of pressure."—Dated 8th April, 1859.

1682. Léopold Jean Baptiste Roche, of 32, Rue Bellefond, Paris, for "A so-called 'Duchesse busk.'"—Dated 8th April, 1859.

1683. Pierre Perron, of 14, Rue Vivienne, Paris, for "A process for moulding chocolate."—Dated 8th April, 1859.

1684. Bernard Hippolyte Chameroy, of 162, Faubourg St. Martin, Paris, for "Tubular soldering on pipes."—Dated 8th April, 1859.

1685. Joseph Antoine Jean Horloger Redier, of 16, Cours des Petites Ecuries, Paris, a Certificate of Addition to his Patent of 4th December, 1857, for "Enamelled dials."—Dated 8th April, 1859.

1686. Armand Benoist Joseph Jean, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of mutual commercial advertisements."—Dated 8th April, 1859.

1687. Pierre Sabatier and Jean Thomas Mourié, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Manufacture of cast-steel objects, and chiefly wheel tyres of railway carriages by means of crucibles."—Dated 8th April, 1859.

1688. Adolphe Julien Chomette, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A thermo-syphon for heating hothouses, workshops, &c."—Dated 8th April, 1859.

1689. Marie Nicolas Victor Klein, of 16, Rue Vavin, Paris, a Certificate of Addition to his Patent of 16th April, 1858, for "A machine for marking and cutting pasteboard."—Dated 9th April, 1859.

1690. Eugène Goddier, of 34, Rue du Faubourg St. Martin, Paris, a Certificate of Addition to his Patent of 25th November, 1858, for "Applying talc or mica to various purposes."—Dated 9th April, 1859.

1691. Charles Pietroni, represented by Carini, of 4, Boulevart des Italiens, Paris, for "Manufacture of soap from neutral alkali by steam."—Dated 9th April, 1859.

1692. Michel Félix Guenault, of 48, Rue de la Ferme des Mathurins, Paris, a Certificate of Addition to his Patent of 26th June, 1857, for "Improvements in fire-arms."—Dated 9th April, 1859.

1693. Jacques Bernard Dominateur Cogiola, of 10, Rue Montmartre, Paris, for "A vegetable liqueur, called 'Figaro liqueur.'"—Dated 9th April, 1859.

1694. James Childs, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in using heat in the manufacture of artificial gums, teeth, and other articles composed of combined gutta percha and sulphur."—Dated 9th April, 1859.—(English Patent, expiring 21st January, 1873.)

1695. Jean Pierre Philippe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 10th April, 1858, for "A machine for opening boxes of preserved food, sardines, and other articles."—Dated 9th April, 1859.

1696. Eugène François Novion, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A simplified and improved melophonium."—Dated 9th April, 1859.

1697. Benjamin Goodfellow, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in steam engines."—Dated 9th April, 1859.

1698. Georges Kugler, Boniface Plaz, and Jacob Rexroth, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in sewing machines."—Dated 9th April, 1859.

1699. Louise Jenny Pamèla Lefebvre née Blanche, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Manufacture of nitric acid, and applying the same to the production of artificial nitre beds."—Dated 9th April, 1859.

1700. Félix Aroux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 14th July, 1857, for "A sowing machine with multiple wheels."—Dated 9th April, 1859.

1701. Félix Aroux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 27th January, 1859, for "Improvements in the method of sowing."—Dated 9th April, 1859.

1702. Jean François Quétel, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 1st December, 1858, for "Improvements in machines for planing and grooving inlaid floors."—Dated 9th April, 1859.

1703. Louis Adolphe Faure, of 44, Rue des Marais St. Martin, Paris, a Certificate of Addition to his Patent of 4th July, 1855, for "A kind of pump."—Dated 9th April, 1859.

1704. Guillaume Jacques Dorso, of 8, Rue de Bagneux, Paris, a Certificate of Addition to his Patent of 25th September, 1858, for "Improvements in railway plant."—Dated 9th April, 1859.

1705. Louis Cyrille Bureau, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A system of heating and ventilating fire-places of machines."—Dated 9th April, 1859.

1706. André Hoffman, domiciled with Richard, of 53, Rue Vivienne, Paris, for "A system of pianos which get never out of tune."—Dated 9th April, 1859.

1707. Alfred Antoine Paulin Mallet, of 12, Boulevart du Combat, Belleville, for "Improvements in the manufacture of tubes of bituminous paper."—Dated 9th April, 1859.

1709. Paul Briolay, of 12, Rue de Rambuteau, Paris, a Certificate of Addition to his and Sénéchal's Patent of 16th September, 1858, for "A break."—Dated 11th April, 1859.

1709. Leonard Dinlasportas and Paul Louis Belnet, the former of 3, Rue de Montreuil, the latter of 12, Rue St. Bernard, Paris, for "A system of illustrated funeral railings."—Dated 11th April, 1859.

1710. Louis Jacques Durand, of 29, Rue St. Nicolas d'Antin, Paris, for "Improvements in water and gas inlets."—Dated 11th April, 1859.

1711. Anne Célénie Villeminot née Neuville, of 71, Rue Lemerier, Batignolles, for "Winding up filamentous substances on cylinders, one above the other, by means of a differential movement."—Dated 11th April, 1859.

1712. Henry Bayley and John Greaves, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in machines for twisting and doubling fibrous substances."—Dated 11th April, 1859.—(English Patent, expiring 9th April, 1872.)

1713. Jules Cuisset, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A reflector level, with a reservoir, blade pendulum and signal sight."—Dated 11th April, 1859.

1714. Dominique Artige, of 43, Rue de Grenelle, Grenelle, a Certificate of Addition to his Patent of 17th November, 1858, for "Improvements in grease-boxes of railway carriages, &c."—Dated 11th April, 1859.

1715. Marie Catherine Chatelain née Poignant, of 31, Rue du Jour, Paris, for "Cosmetic compounds for preventing the loss of hair, &c."—Dated 11th April, 1859.

1716. François Joseph Adam, of 5, Rue du Grand Chantier, Paris, for "Using paper resembling minerals, as passe-partout."—Dated 11th April, 1859.

1717. Aléxis Marie Edmond Lefaure, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in revolvers."—Dated 11th April, 1859.

1718. Aléxis Marie Edmond Lefaure, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A lever hook for taking out cartridges from breech-loading guns."—Dated 11th April, 1859.

1719. Louis Breton, of 6, Rue Garancière, Paris, for "A signal mast for railways."—Dated 12th April, 1859.

1720. Léon Pierre Debain, of 132, Boulevart Montparnasse, Paris, for "A diaphragmatic apparatus with a direct action, applicable to navigation, pumps, to compressing gas, &c."—Dated 12th April, 1859.

1721. Léon Pierre Debain, of 132, Boulevart Montparnasse, Paris, for "A generating apparatus utilizing compressed air, water, alcohol, ammonia, and other fluids."—Dated 12th April, 1859.

1722. Louis Sautter and Co., represented by Basset, of 14, Boulevart St. Martin, Paris, a Certificate of Addition to Balancie's Patent of 23rd August, 1858, for "Inalterable metallic coatings on glass for reflectors, mirrors, &c."—Dated 12th April, 1859.

1723. Auguste Lasgouttes and Co., Boulevart des Recollets, Lodère, département de l'Hérault, for "A carding machine with continuous slubbings."—Dated 14th April, 1859.

1724. Jean Baptiste Marchandin, of Gamaches, département de la Somme, for "A moveable or fixed screw thrashing machine."—Dated 16th April, 1859.

1725. Ferdinand Gobet, of Bernerain, département du Nord, for "A compensating regulator for regulating the speed of any motive power."—Dated 19th April, 1859.

1726. Edmond Guyot-Dannecy, of 46, Fossés de l'Intendance, Bordeaux, département de la Gironde, for "A therapeutic spoon, with compartments and cover."—Dated 18th April, 1859.

1727. Pierre Antoine Quantin, of 27, Allées des Noyers, Bordeaux, département de la Gironde, for "Extracting stones."—Dated 18th April, 1859.

1728. Pierre François Levache, of 12, Rue du Petit Bouvreuil, Rouen, département de la Seine Inférieure, for "A kind of rein."—Dated 12th April, 1859.

1729. Nicolas Schlumberger and Co., of Guebwiller, département du Haut Rhin, for "Improvements in turbines, reaction wheels, ventilators, and motors in general."—Dated 15th April, 1859.

1730. Nicolas Schlumberger and Co., of Guebwiller, département du Haut Rhin, for "Improvements in drawing cotton, wool, flax, and other filamentous substances."—Dated 15th April, 1859.

1731. Alexandre Jules Lemrez, of 2, Place Martainville, Rouen, département de la Seine Inférieure, for "Glue for assembling the ends of straps."—Dated 15th April, 1858.

1732. Meunier-Bourdat, senr. and junr., Cyrille Guélin, and Jean Pierre Garrel, of Voiron, département de l'Isère, for "A machine for doubling the motive power of water."—Dated 15th April, 1859.

1733. François Alexandre Tavelet, of Montivilliers, département de la Seine Inférieure, for "A system of so-called 'progressive pivots,' whereby the motive power, and the production of works moved by waterfalls, may be increased."—Dated 16th April, 1859.

1734. François Alexandre Tavelet, of Montivilliers, département de la Seine Inférieure, for "A system of water inlets applicable to all hydraulic wheels."—Dated 16th April, 1859.

1735. Frédéric Honoré Desliens, of Meny, département de l'Oise, for "A mechanical lathe with a treble chariot and slide mandrel for making needle-cases."—Dated 16th April, 1859.

1736. Louis Kessler, of Metz, département de la Moselle, a Certificate of Addition to his Patent of 14th June, 1858, for "Preparing and using fluoride of potassium."—Dated 18th April, 1859.

1737. François Leblanc, of Neuville-sur-Saône, département du Rhône, for "A railway break worked by the weight of trains."—Dated 18th April, 1859.

1738. Michel Mignot, of 1, Rue de Savoie, Lyon, département du Rhône, for "A system of gas-heating and complete smoke-consuming apparatus."—Dated 19th April, 1859.

1739. Gallois-Foucault, of St. Martin, Ile de Ré, département de la Charente Inférieure, for "A mechanical press applicable to the manufacture of wine, cyder, to pressing fodder, tobacco, and all articles to be packed up."—Dated 19th April, 1859.

1740. Raymondière, département de la Loire Inférieure, for "Glueing leather and other articles by means of gutta percha in powder, without using any solution of chemical products."—Dated 19th April, 1859.

1741. Charles Jacquard, of Sédan, département des Ardennes, for "Improvements in stereoscopes."—Dated 19th April, 1859.

1742. François Maystre, of 10, Rue Vaubecour, Lyon, département du Rhône, for "A mould for making cigarets."—Dated 20th April, 1859.

7143. Charles Cyprien Jouan, of Louviers, département de l'Eure, for "A thrashing machine."—Dated 20th April, 1859.

1744. Edme Jules Maumené and Victor Rogelet, domiciled at 22, Rue Colbert, Reims, département de la Marne, for "A system of working a kind of potash."—Dated 20th April, 1859.

1745. Léon Barroux, of Chaumont, département de la Haute Marne, a Certificate of Addition to his Patent of 7th September, 1858, for "Iron roads."—Dated 20th April, 1859.

1746. Louis Gustave de Laurés, of 4, Place des Marchés, Reims, département de la Marne, a Certificate of Addition to his Patent of 4th March, 1857, for "Cloth without wrong sides napped on circular hosiery frames."—Dated 21st April, 1859.

1747. Pruneau, of Saint Fargeau, département de l'Yonne, for "A sowing machine."—Dated 21st April, 1859.

1748. Frédéric Calais, of 3, Rue du Renard St. Sauveur, Paris, for "A system of weaving with horizontal and vertical warps."—Dated 12th April, 1859.

1749. Léon Jean Emile Dupont, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 10th January, 1859, for "Separating grits from chaff."—Dated 12th April, 1859.

1750. Amélie Erhard née Demenge, of 93, Rue Richelieu, Paris, for "Improvements in bonnets."—Dated 12th April, 1859.

1751. Léonard Wray, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in compounds for coating and insulating telegraph wires."—Dated 12th April, 1859.—(English Patent, expiring 12th October, 1872.)

1752. George Price and William Darvis, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in steam engines, boilers, and apparatus belonging thereto."—Dated 12th April, 1859.—(English Patent, expiring 2nd September, 1872.)

1753. Henri Désiré Quidet, domiciled with Bordet, of 6, Rue Mont Faucon, Paris, for "Improvements in the manufacture of cloth for billiard tables."—Dated 13th April, 1859.

1754. Pierre Hippolyte Gustave Bérard, of 333, Rue St. Denis, Paris, for "Trusses, suspensories, &c., rendered impervious by means of collodion."—Dated 13th April, 1859.

1755. Pierre Augustin Sautreuil, domiciled at Rue du Bouloi, Hotel du Nord, Paris, a Certificate of Addition to his Patent of 31st May, 1855, for "A machine for making inlaid floors."—Dated 13th April, 1859.

1756. Alexandre Cousin, of 82, Rue des Gravilliers, Paris, for "Improvements in trusses."—Dated 13th April, 1859.

1757. Nores, Autier, Auvray, Desvarannes, and Simon, domiciled with the former, Rue Joubert, Paris, for "A system of railway sleepers."—Dated 13th April, 1859.

1758. Alexandre Désiré Eugène Boucher and Adrien Muller, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 27th July, 1854, for "Mechanical processes for tinning and zinking."—Dated 13th April, 1859.

1759. Dominique Hilaire Prestat, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 27th May, 1857, for "Fixing rails on railways."—Dated 13th April, 1859.

1760. François Begon, of 6, Rue de Jarente, Paris, for "A mechanism for cauterization."—Dated 13th April, 1859.

1761. Louis Edme Golaz, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of pneumatic closing."—Dated 13th April, 1859.

1762. William Malam, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in apparatus for manufacturing gas."—Dated 13th April, 1859.—(English Patent, expiring 6th October, 1872.)

1763. John Stainthorp, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for moulding candles."—Dated 13th April, 1859.

1764. Félix Delisle, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A cock with forced water, applicable to gas and steam pipes."—Dated 13th April, 1859.

1765. Ducrot, represented by Philippe Ducrot, of 56, Rue du Faubourg St. Denis, Paris, for "A bird fan."—Dated 13th April, 1859.

1766. Eugène Simonnar and Pierre Auguste Gasseau, the former of Batignolles, the latter of 17, Avenue Millaud, Rue de Lyon, Paris, for "A submarine exploring apparatus."—Dated 13th April, 1859.

1767. Nicolas Joseph Grivot, with Dreyfous, of 54, Rue de Bondy, Paris, for "An apparatus for treating potatoes in fecula works."—Dated 14th April, 1859.

1768. Jean Jacques Monnié, represented by Dreyfous, of 54, Rue de Bondy, Paris, a Certificate of Addition to his Patent of 11th August, 1858, for "A machine for dry rubbing floors and brick pavements."—Dated 14th April, 1859.

1769. Thomas Guinier, of 23, Rue de Grenelle St. Honoré, Paris, a Certificate of Addition to his Patent of 17th May, 1858, for "Improvements in cocks and other objects used in the distribution of water."—Dated 14th April, 1859.

1770. Charles Urbain Varin, of 3, Rue du Jardinet, Paris, for "A kind of flower vases."—Dated 14th April, 1859.

1771. Joseph Souqière, alias Emile, of 33, Rue St. Victor, Paris, for "Distilling coal."—Dated 14th April, 1859.

1772. Théodore W. Phinney, represented by Fleischmann, of 27, Boulevart des Italiens, Paris, for "Improvements in propelling vessels."—Dated 14th April, 1859.

1773. Marie Adèle Maillet, née Brunet, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture and composition of liqueurs."—Dated 14th April, 1859.

1774. Henri Adolphe Archereau, with Petit, of 12, Rue du Temple, Paris, for "Utilizing the power of steam and gas by means of moveable diaphragms."—Dated 14th April, 1859.

1775. Charles Radcliffe, represented by Gough, of 238, Rue de Rivoli, Paris, for "A machine for wetting woollen and other tissues."—Dated 14th April, 1859.

1776. Charles Auguste Barrière, represented by Ricordeau, of 23, Boulevart de Strasbourg, for "A system of closing bottles."—Dated 14th April, 1859.

1777. Jules Firmin Ricquier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A syphoid cock for obtaining sparkling beverages."—Dated 14th April, 1859.

1778. Alfred René Dalifol, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 7th January, 1859, for "An annealing furnace, with fixed crucibles."—Dated 14th April, 1859.

1779. Jeanne Elizabeth Sophie Achet, née Robert de Massy, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to her Patent of 25th February, 1859, for "A system and means of stopping horses."—Dated 14th April, 1859.

1780. Jean Jacques Taxile de la Fenestre, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 29th January, 1859, for "A wet process for extracting carbon from peat and other fuel."—Dated 14th April, 1859.

1781. Augustin Marie Herland, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 31st July, 1858, for "Mounting straps on drums and pulleys."—Dated 14th April, 1859.

1782. Henri Galis, domiciled with Courot, of 5, Rue de Cléry, Paris, a Certificate of Addition to his Patent of 21st October, 1858, for "A system of steam carriages."—Dated 15th April, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 19th April, 1859, and each bearing that date.

No. 23,650. Jonathan Amory, of West Roxbury, Mass., for an "Improvement in steam-boiler furnaces."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method of increasing the combustion and protecting the combustion curves, substantially as described."

No. 23,651. Abraham Bartholf, of New York, N. Y., for an "Improvement in device for converting alternate circular motion into direct circular motion."

"What I claim as my invention, and desire to secure by Letters Patent is, the dog C, spring D, and lever E, combined and arranged relatively to each other, and applied to the wheel A, or its equivalent, substantially as herein described."

No. 23,652. A. C. Barstow, of Providence, R.I., for an "Improvement in burial cases."

"Having thus described my improvements, I shall state my claim, as follows:—What I claim as my invention, and desire to secure by Letters Patent, is, constructing a metallic burial case, with the ogee shaped ends as described, whereby great reduction in weight and economy in the manufacture is secured, and at the same time all the space required afforded. Second, I also claim forming the metallic case, with the overlapping strengthening ribs, as described."

No. 23,653. Mellen Battel, of Albany, N. Y., for an "Improvement in furnace for heating tire."

"Having thus described my invention, I claim as an improved article of manufacture, a furnace for heating tire, composed of an annular body A, fire space B, central tube C, with cover or damper D, therein, to regulate the draft, extension E, rod F, crane G, top H, and otherwise constructed as herein shown and described, for the purpose specified."

No. 23,654. T. L. Baylies, of Richmond, Ind., for an "Improved anchor tripper."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the tripping bar B, shaft C, and cams *j*, *k*, substantially as and for the purpose herein shown and described."

No. 23,655. Abner M. Beardsley, of Elkhart, Ind., for an "Improved machine for filing saws."

"Having described the operation of the implement in connection with the description of the construction of the same, I will now point out the new elements and arrangements of parts contained therein. I do not claim a swinging frame, either for supporting the file or the file carriage; neither do I claim lifting the swinging frame and file, so as to clear the teeth of the saw, by means of a spring or any device so that the saw can be fed beneath the file as each tooth is sharpened; but I claim, and desire to secure by Letters Patent, first, the arrangement of the swinging frame of the file carriage upon the adjusting plate E, so that it can be turned over and supported upon the bed plate A, in the manner and for the purposes described and shown in Fig. 6, of the drawings. Second, the arrangement of the cheek pieces N, upon the adjusting plate E, between the arms of the swinging frame for the purpose of bracing the latter against the thrusts of the file carriage, while said frame is free to rise and fall as described. Third, the arrangement of the gauging screw M, in the cross piece H, of the swinging frame, by which the teeth are filed to a uniform depth, without interfering with the rising of the file carriage to conform to the taper of the file, as described. Fourth, the arrangement of the seats *a*, *a*, at each end of the bed plate A, whereby the implement may be supported directly upon the clamp of the saw, for the purposes described."

No. 23,656. Douglas Bly, of Rochester, N.Y., for "Improvements in artificial legs."

"I am aware that straps from the shoulders have been used, both elastic and otherwise, for the purpose of retaining the artificial limb in its place, and this I do not claim. But what I claim as new, and desire to secure by Letters Patent, is, the use of an elastic strap or apparatus from the shoulders or upper part of the body, when attached to the artificial leg in such a manner that its contractile power is exerted in connection with the backward motion of the shoulders to produce the forward motion of the foot, substantially as herein set forth."

No. 23,657. Benjn. Bradbury, of Abington, Illinois, for an "Improvement in washing machines."

"What I claim and desire to secure by Letters Patent, is, the arrangement herein described of the levers *h*, *e*, *e*, and pitman *f*, moving the dashers *d* over the concave of the box C, the whole constructed and operating as specified."

No. 23,658. Chas. K. Bradford, of Lynn, Mass., for an "Improvement in faucets."

"Having thus fully described my said improvement in faucets, and particularly ascertained the manner in which the same is, or may be constructed, I shall state my claim as follows:—What I claim as my invention, and desire to secure by Letters Patent, is, the faucet, constructed as described, to be operated by applying pressure directly to the head of the case; said case for this purpose being provided with an outside elastic diaphragm, forming the head thereto, and combined with a valve rod, arranged in relation to the case internally, so that the ends of said rod terminate respectively at, and are secured to the valve and diaphragm, as set forth."

No. 23,659. Wm. H. Bramble, of Springfield, Ohio, for an "Improved bedstead."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, first, the combination of an under and upper section, united to each other by springs and links, so that the upper section may have a free vertical and horizontal motion, substantially as described. I also claim, in combination with a bedstead made of two sections, as described, the making of the posts of the upper section shorter than the supports of the under section, so that said upper section, when placed on the lower one, shall be entirely clear of the floor, as set forth. I also claim the combination of the loose slats, springs, and webbing, when said webbing runs longitudinally or lengthwise of the bedstead, in the manner and for the purpose stated."

No. 23,660. John Broughton, of New York, N.Y., for an "Improvement in governors for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, effecting the connection between the ball arms G, G, and the central rod J, by means of two levers H, H, and two links K, K, the whole being applied and operating substantially as herein set forth."

No. 23,661. Peter G. Brown, of Schenectady, N.Y., for an "Improved lubricator."

"I claim the combination of the reservoir A, provided with a discharging aperture *c*, valve F, having a receiving aperture *d* in it, and air-chamber H, or the equivalents thereof, when said air-chamber is arranged to control or assist the discharge, substantially as specified. I likewise claim giving to the valve, constructed and arranged as above described, which conveys the oil from the reservoir to the discharging aperture, an intermittent revolving motion, in one and the same direction, for and by the action of the handle I, or its equivalent, in either direction of the travel of the latter, or in reverse directions thereof, essentially as herein set forth."

No. 23,662. Geo. Clay, of New York, N. Y., for an "Improved lock."

"What I claim as my invention, and desire to secure by Letters Patent, is, the within-specified construction and arrangement of the following parts, for united operation in a lock, viz., right and left double-walled case A, *t*, *t*, sliding right and left, key hole guard plates *d*, *d*, e^1, e^1, right and left forked bars *e*, *e*, *s*. *s*, main and auxilliary tumblers D, D, f^1, f^1, and bolt D, a^*, all for the purpose set forth."

No. 23,663. Wm. E. Cooper, of Dunkirk, N. Y., for an "Improvement in R. R. car brake."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the bell cord E, pulleys *h*, *h*, and *n*, and movable pulley block F, with the brake cord I, the same being connected and operated substantially in the manner herein set forth, for the purpose of setting all of the brakes in the entire train simultaneously and from any point within the train, as is fully described."

No. 23,664. Rienza Daniels, of Almena, Mich., for an "Improvement in journal boxes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the axle *c*, *d*, furnished with a screw tapped arm arm *c*, and having toothed and plain sections *a*, *a*, *a*, E, *b*, *b*, of a journal arranged and clamped upon it, in combination with the internally toothed journal box A, B, B, and with rods *m*, *m*, toothed and plain sections of friction rollers D, D, arranged and clamped on them, all in the manner described, and for the purpose set forth."

No. 23,665. B. Wells Dunklee, of Boston, Mass., for an "Improvement in cooking range."

"What I claim is, the arrangement of the two induction flues A, B, the gauge throats, their plates or bars, and the flues around and between the two ovens, a single damper and its opening being placed over the middle flue and with respect to the two flues, as specified."

No. 23,666. Geo. Esterly, of White Water, Mich., for an "Improvement in harvesting machines."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, the adjusting of the rake Q i y means of the sector O suspended by journals or trunions *s*, *s*, and secured in the desired position by set screws *n* and bars *n*, *n*, or their equivalents, in combination with the adjustable platform L, whereby the rake and platform may be adjusted to suit the height the grain is being cut. 2nd, the segment plate U with the curved flanch *j*×, for the purpose of carrying the rake backwards, as described. 3rd, the use of the pendent rod or bar *f*×, provided with the rollers *g*×, *h*×, in combination with the flanch *j*×, for the purpose specified. I do not claim the guard finger T; but I claim, 4thly, attaching the guard finger T to the bearing W, in the manner described, whereby it may be adjusted, for the purpose specified."

No. 23,667. Jonah Ellis, of (near) Warrington, England, for an "Improvement in machine for quarrying stone, &c."—Patented in England, 6th December, 1855.

"Having thus fully described the nature and object of my invention, I would state that I lay no claim to the parts herein described when taken separately; but what I do claim as new, and desire to secure by Letters Patent, is, a portable apparatus designed for cutting grooves in rock or other mineral substances, for the purpose of quarrying the same in blocks, and consisting of supports B, B, which are fastened to the rock, and sustain an adjustable bed plate D and screw shaft E, upon which bed plate and screw shaft a tool stock and adjustable cutter is made to traverse between two previously drilled or open spaces which form the extremities of the proposed cut, substantially as herein described and represented."

No. 23,668. Robt. G. Eunson, of New York, N. Y., for an "Improved water cooler for steam engines."

"I do not wish to confine myself in the use of my decalorator, to cooling the condensing water of steam engines, but contemplate its application to all operations of cooling, for which it is fitted; nor do I confine myself to the cylindrical form of my present arrangement; nor do I claim my decalorator, broadly, as a tubular device, for cooling the condensing water of steam engines, by means of a stream of sea water outside of the tubes; but what I claim as my invention, and desire to secure by Letters Patent, is, the use or employment of a decalorator, such as is described, or its equivalent, when the series of very small horizontal tubes are so arranged in respect to the current of water outside of the tubes, that the centre of each tube, in one row, shall be opposite, or nearly opposite to the centre of the space between the tubes in the next row, in combination with supporting and directing tube plate, such as are described, and for the purposes set forth. I also claim the use or employment of tubes arranged in rows, as described, in combination with the tube plates and shell of the decalorator, when so arranged that the current of cold water is made to flow across the tubes, being directed by the tube plates from side to side or from top to bottom, and from bottom to top, of the shell and around the tubes, being made to encircle them by its current, in consequence of their arrangement in rows, as described, and at the same time progress lengthwise of the shell and tubes, in a direction contrary to the stream of fresh water inside of the tubes, for the purposes set forth."

No. 23,669. Daniel Fitzgerald, of New York, N. Y., for a "Fireman's ladder."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the applying the tanks A, B, or their equivalent, to ladders, with or without water, to elevate and hold said ladders, substantially as above described. 2d, conveying the water thro' a long distance, by an elongated pipe E, or its equivalent, connected with the apparatus, substantially as described. 3rd, managing the curved or jointed pipes Q, R, by means of the lever H, or its equivalent, in the manner above described."

No. 23,670. Perry G. Gardiner, of New York, N. Y., for an "Improvement in moulds for steel castings."

"Having thus described my improvements, what I claim therein as my invention, and for which I desire Letters Patent, is, 1, the constructing the mould with a cup or reservoir, for holding all the melted metal for the casting, closed, and opened at the entrance of the sprue by the movable

plug or stopper, as described. 2, the spherical hollow chamber *d*, and air escape passage $d^{(1)}$, and self-acting plug *f*, to permit the rarified air to pass from the mould and to escape, and to shut off the external air from the mould, operating in the manner and for the object described. 3 I claim the combination and arrangement of the two cups, the sprue, the figure *o*, the tool or casting and air vents or passages, so as to form a bent tube, by which the casting is filled from the bottom, and the external air excluded, as described. 4, I claim the use of the moulds in a state of intense heat, never less than 500° of Fahrenheit, and generally at a much higher temperature, for the purpose of producing, as nearly as practicable, a vacuum within the mould; but I do not claim the mere heating or warming of the moulds to produce a smooth casting, that having been a common practice heretofore."

No. 23,671. P. F. Geisse, of Wellsville, Ohio, for an "Improved oven for cooling castings."

"I am aware that ovens for raising the temperature after the wheels have been put into them have been used, therefore I do not claim an oven of itself as new; I am also aware that a current of air has been allowed to pass through the hubs of car wheels when introduced into a case not susceptible of having its temperature raised, therefore I do not claim this as new; but what I do claim as new, and desire to secure by Letters Patent is, the pipe *d*, connecting the eyes or hubs of the wheels with flue E, and plate *c*, for causing the current of air to pass through the eyes only of the hubs in cooling, in combination with the heating oven A and pits B, operating as described and for the purposes set forth."

No. 23,672. Isaac H. Giffing, of New York, N.Y., for an "Improved mode of attaching casters to trunks."

"I do not claim the roller or strap separately, as they have been used on trunks for many years; what I do claim is, the method herein described of constructing and attaching casters to trunks."

No. 23,673. James C. Gilbert, of Leeds Junction, Me., for an "Improvement in yoke ring attachment for the pole of ox carts."

"Having thus described my invention, what I claim is, the above-described arrangement of the backing bearer *f*, and the engaging notch *e* of the spring slider D, with respect to and to operate with the draft hook C, substantially in manner as herein-before specified."

No. 23,674. Othniel Gilmore, of Raynham, Mass., for an "Improved machine for smoothing soles of boots and shoes."

"What I claim as my invention is, the improved manufacture of sole smoothing or reducing wheel, made with the convex grinding annulus *a*, a concentric heel recess B, and acute angled edges *b*, *c*, arranged substantially as described."

No. 23,675. Porter A. Gladwin, of Bristol, Mass., for an "Improvement in attaching cords to window sash."

"I do not rely upon a spring acting as such, independent of the cord attached thereto, nor do I wish to claim it; but what I do claim is, the employment of the slotted tension spring or plate D, in combination with the cord G and pulley C, in the manner as and for the purpose described."

No. 23,676. Wm. P. Goolman, of Dublin, Ind., for an "Improvement in windlasess."

"The following is what I claim as new and of my invention, and desire to secure by Letters Patent:—1st, in the described combination with a winding drum or capstan, of any suitable form, I claim the application of a reel D, operated by the traction of the entering cable, to take up the slack from the said drum or capstan, as explained. 2nd, in combination with the said reel and capstan, I claim the adjustable idle pulley G, operating as set forth, to maintain the needful traction of the cable against the reel, or vary it, as may be found needful."

No. 23,677. Geo. P. Gordon, of New York, N.Y., for an "Improvement in printing presses."

"Having fully described my 'printing press,' what I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination of one or more sets of revolving grippers, with the finger stops, or their equivalents, for the purpose of piling the sheets of paper in an even and regular heap or pile, substantially as described. 2nd, I claim the combination of a vibrating feed board, with the rotating or revolving platen, for the purpose of feeding the sheets of paper regularly and with precision at each rotation of the platen. 3rd, I claim the combination of a rotating reciprocating bed, with a revolving platen, all of which is fully described."

No. 23,678. Jackson Gorham, of Bairdstown, Geo., for an "Improved bench-plane stock."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, constructing the plane stock of a central wooden portion *a*, *a*, secured between metal side plates *b*, *b*, provided with flanches *h*, *h*, the part a^1 being permanently secured between the plates *b*, *b*, and the part *a* rendered adjustable between said plates, by set screws $a\times$, $a\times$, substantially as and for the purpose set forth."

No. 23,679. Edwd. Gottheil, of Galveston, Texas, for an "Improvement in cotton gins."

"Having thus fully described my machine, what I claim therein as new, and desire to secure by Letters Patent, is, First, the method of feeding the cotton bolls to the rollers (*b*) by means of a blast issuing from a slotted or perforated tube, or its equivalent, substantially as herein set forth. I do not claim creating a blast of air to issue from the periphery of the brush cylinders, by means of wings within them, by their own velocity; but I claim, secondly, the arrangement of the two cylindrical brushes (*d*), in combination with the rollers (*b*), when the former are so constructed that a blast from an independent source may be forced through slots or perforations in their peripheries, substantially as and for the purposes set forth. Thirdly, I claim the comb (*e*) in combination with the blast pipe (*z*), for gathering the lint off the upper brush roller, and discharging it into its receptacle, in the manner set forth."

No. 23,680. Josiah M. Grumman, of Brooklyn, N.Y., for an "Improved surveyor's chain."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1, the method of making civil engineers' and surveyors' chains of a peculiar form of link, as before described and shown. 2, the arrangement of spring, balance, and level in the same tube or covering, with the arrangements for adjusting, as before described and shown. 3, the method of allowing for the variation of the temperature by a scale of variation on the chain, with the adjusting slide and clamp, as before described and shown, so that the chain may be virtually shortened or lengthened to meet the temperature. 4, the use of the spring catch, by means of which the balance and level is detached from the end link, and attached to any other link in the chain at the pleasure of the operator. 5, the method of attaching the thermometer to the end bar of the chain, as before described and shown."

No. 23,681. Isaac W. Hakes, jr., and A. H. Hakes, of Norwich, Conn., for "Improvements in bustles."

"Having described my invention, I claim as an improved article of manufacture, a 'bustle' provided with front holding straps (*a*, a^1), and spring E, when otherwise constructed, as herein shown and described."

No. 23,682. B. F. Harrington and U. B. Burris, of Missouri City, Mo., for an "Improvement in cooling and feeding material to mills."

"Having thus fully described our improvement, what we claim as new, and desire to secure by Letters Patent, is, 1st, the spiral chambers, E, E, for the purpose of creating currents of air for keeping the stones cool, substantially in the manner described. 2nd. the combination of the spiral buckets, with the spiral chambers, when both are constructed and arranged in the manner and for the purpose herein fully set forth."

No. 23,683. Alexr. L. Holley, of New York, N.Y., for an "Improvement in chairs for rail roads."

"Having thus described my said invention, what I claim therein, and desire to secure by Letters Patent, is, the combination of the splice C, and the bracket D, (the said splice and bracket being either the same piece or separate pieces), with the foot of the rail *e*, acting as a tension piece, or with a separate tension piece B, in the manner and for the purposes substantially as described."

No. 23,684. Alexr. L. Holley, of New York, N.Y., for an "Improvement in variable cut-off gear for steam engines."

"I disclaim the method described of moving the supplementary valve *e*, the same being in use; I disclaim the use of a supplementary steam piston as the sole mover of a valve. I claim such a combination of the motion of an

eccentric, or its equivalent, with the motion of a steam piston for moving a valve, as will effect a variable cut-off of the induction steam, without interfering with a free exhaust, substantially in the manner herein-before described."

No. 23,685. BENNET HOTCHKISS, of New Haven, Conn., for an "Improvement in variable cut-off gear for steam engines."

"I am aware that that the valve has been tripped so as to cut off the steam at any definite portion of the stroke of the piston, by an adjustable inclined plane and lever, when the inclined plane was adjusted and fixed by hand, as in the Patent of F. E. Siekles; I, therefore, do not claim the use of the inclined plane and lever, to trip the valve, as such as my invention; but what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the sliding bar (E), with the sliding collar (F), when constructed, arranged, and made to control the time of the cut-off by the operation of the governor or regulator only, substantially as herein described."

No. 23,686. WM. H. HOVEY, of Springfield, Mass., for an "Improvement in corn shellers."

"I claim the arrangement and combination of the endless elevator E, the spout B, the spring presser G, and the shelling cylinder F, in the manner described. I also claim the arrangement and combination of the grated trough D with the elevator E, and the mechanism for removing the kernels from the cobs, and separating both kernels and cobs, as described, such mechanism consisting mainly of the presser G, the shelling cylinder F, and the grid or bar H, arranged and co-operating as specified. I also claim the combination and arrangement of the guide hopper or receiver L, with the shelling mechanism, the grated trough D, and the elevator E, in the manner and for the purpose specified."

No. 23,687. JAMES J. JOHNSTON, of Alleghany, Pa., for an "Improvement in corn shellers."

"Having thus described the nature, construction, and operation of my invention, what I claim as of my invention, and desire to secure by Letters Patent of the United States, is, the combination and arrangement of the disks or shelling wheels (*c* and *d*), with the guard (*j*), guide (*h*), and spring or press plate (*k*), constructed and operating in the manner and for the purpose specified."

No. 23,688. GEO. KENNY, of Milford, N.H., for an "Improved combined stump extractor and press."

"Having described my combined stump extractor and press, what I claim therein as new, and desire to secure by Letters Patent, is first, the combination of the main frame *u*, *u*, anchor frame *r*, *r*, canting frame B, D, with the shaft *a* and the devices for working it, the whole being constructed and combined substantially as and for the purposes set forth. I also claim the main frame and windlass device above described, in combination with the removable pressing frame and box, substantially as and for the purpose set forth."

No. 23,689. SAML. KIMBALL and WM. SAWYER, of Boxford, Mass., for an "Improvement in apparatus for drying shoe-pegs and grain."

"Having fully described our improved drying apparatus, what we claim, and desire to secure by Letters Patent, is, the arrangement of the steam pipes *f*, *f*, *f*, &c., with the main cylinder C, covered with wire gauze or perforated sheet metal, in whatever manner the steam may be introduced into said pipes, in combination with the floats K, K^{1}, K^{11}, K^{111}, constructed and operating in the manner above set forth. Also the arrangement of the steam pipes *f*, *f*, *f*, &c., with the main cylinder *c*, covered with wire gauze or perforated sheet metal, without the floats K, K^{1}, K^{11}, K^{111}, constructed and operating substantially in the manner above set forth."

No. 23,690. A. C. LANING, of Wilkesbarre, Pa., for an "Improvement in pumps."

"Having thus described my invention, what I claim as new, and desire by Letters Patent, is, the stationary pipe or tube A, valve chamber B, and reciprocating cylinder C, combined and arranged substantially as and for the purpose set forth."

No. 23,691. DAVID LOCKE, of Lexington, Mo., for an "Improvement in brick machines."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the elevated layer of tempered clay *d*, arranged or formed substantially as shown, in connection with the traveling plates or cutters *p*, *q*, and pressure plates *r*, arranged to operate substantially as and for the purpose set forth."

No. 23,692. H. H. LOW, of Galena, Ill., for an "Improved shingle machine."

"I do not claim a vertical reciprocating frame E, containing the bolt from which the shingles are sawed, for such device has been used and may be seen in the machine formerly patented by me, and previously alluded to; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, operating the vertically-reciprocating and balance frame E from the saw or power shaft B, through the medium of the pulleys *c*, *e*, and gearing *g*, *h*, *i*, *j*, arranged with the slide bar I, arm H, and the springs *n*, *n*^{1}, and spring stop J, substantially as and for the purpose set forth."

No. 23,693. JOHN R. MARSTON, of New York, N. Y., for an "Improvement in cob and grain mill."

"What I claim as my invention, and desire to secure by Letters Patent, is, the set bolt *j*, with its nut or its equivalents, the slot *h* in the shell of the cob cutter, and the collar *i* on the shaft, for the more practicable and reliable mode of retaining the cutters of the cob mill in their proper places, substantially as and for the purposes set forth."

No. 23,694. JAMES F. MONROE, of Fitchburgh, Mass., and E. P. MONROE, of New York, N. Y., assignors to E. P. Monroe aforesaid, for an "Improved egg beater."

"What we claim as new, and desire to secure by Letters Patent, is, the two beaters I and J, constructed of wires *i* and *j*, and arranged in the adjustable frame A in such a manner that the same, by means of pinions F and G, and by the bevel wheel D, receive a rapid rotary motion in opposite directions, substantially as and for the purpose specified."

No. 23,695. JOHN D. MURPHY, of Baltimore, Md., for an "Improvement in iron carriage wheel."

"I am aware that combined cast and wrought iron wheels have been constructed before, and I therefore wish to be distinctly understood as disclaiming the invention and construction of such wheels, broadly considered; but having described my invention, what I claim therein as new, and desire to secure by Letters Patent, is, a combined wrought and cast iron wheel, when the several parts composing said wheel are constructed in the form and arranged and combined in the order as and for the purposes shown and described. I also claim leaving the entire rim *d* of the tread of the wheel open at one place, as shown at *d*^{1}, until after the hub is cast, in combination with the mode of inserting and fastening the spokes into the rim or tread of the wheel *d*, as and for the purposes above described."

No. 23,696. ISAAC W. NORCROSS and FREDK. M. NORCROSS, of Lowell, Mass., for an "Improvement in skates."

"We do not claim attaching the runner to the foot stand by means of springs, as we are aware that such is not new, it being the subject of the United States Patent, No. 22,895; but what we do claim is, an improved mode of arranging and applying the springs, each being a continuation of the runner, and to extend laterally and longitudinally with reference to and to be fastened at the toe and heel of the foot stand, as shown on the drawings and as heretofore specified."

No. 23,697. WM. G. OLIVER, of Buffalo, N.Y., for an "Improvement in applying electricity in dental operations."

"I am aware that electricity has been applied as an anesthetic agent in dental operations, and do not broadly claim the application of such an agent; but what I do claim as of my invention, and desire to secure by Letters Patent, is, the employment in producing local anesthesia in dental operations of an apparatus, in which only non-metallic conductors are brought into contact with the parts being operated upon as herein-before set forth."

No. 23,698. GEO. W. PARSHALL, of Middlefield, N.Y., for an "Improvement in R. R. car couplings."

"What I claim as my invention, and desire to secure by Letters Patent, is, I claim the construction and combination of the head piece M, tongue R, wheel O, and pin D, arranged and operating as described, and set forth for the purpose specified."

No. 23,699. JOSEPH R. PAYSON, of Covington, Ky., for an "Improvement in sash-cord fastener."

"I do not claim broadly a sash-cord fastener, nor do I claim the neck *c*, and eye *d*, separately considered: but I claim the

cylindrical ring *a*, in combination with the opening *b*, neck *c*, and eye *d*, substantially as herein described and for the uses and purposes mentioned."

No. 23,700. Saml. Pevice, of Cambridgeport, Mass., for an "Improvement in weighing scales."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the two poise slides A, B, and the fulcrum block C, substantially in the manner and for the purposes herein specified."

No. 23,701. James L. Perry, of Mansfield, and Melzer Burt, of Norton, Mass., for an "Improved fluid measurer."

"We claim the fluid measurer, constructed substantially in manner and to operate with respect to a barrel or reservoir, as specified, that is to say, as made of a close vessel A, induction and eduction faucets, and a tell-tale valve and valve opening, or equivalent, combined and arranged essentially as set forth, the valve serving to indicate when the case may be full of liquid, the induction faucet allowing the flowage and interruption thereof, of liquid into the case, and the eduction faucets determining the amount of flowage out of the case, as described."

No. 23,702. Philander Perry, of Troy, N. Y., for an "Improvement in mills for grinding, crushing, &c."

"I do not claim, broadly, or irrespective of arrangement, the placing of two pairs of grinding stones, or plates, on one shaft, for that has been previously done; but having thus described my invention, what I claim as my invention, and desire to secure by Letters Patent, is, the within specified arrangement for effecting the combination, in one machine of the within described grinding mill, cob crusher, corn sheller, and straw cutter, all for the purpose set forth."

No. 23,703. Bradford S. Pierce, of New Bedford, and Mason R. Pierce, of Mansfield, Mass., for an "Improvement in machines for making drain pipes."

"Having thus described our improvement in pipe machines, what we claim, and desire to secure by Letters Patent, is, the arrangement of the mixing apparatus, pressing and core relieving devices above the platform, for conveying the moulds, in the manner and for the purpose specified. Also, the arrangement of the core socket upon the revolving disk to receive the core and the mould with a provision for discharging the core through the platform, all in the manner and for the purpose specified."

No. 23,704. Wm. S. Pratt, of Brooklyn, N. Y., for an "Improvement in journal boxes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the rollers D, D, placed between the rollers C, C, in the position and for the purposes specified."

No. 23,705. H. Purlier Jesse Harlan and E. C. Cheek, of Cincinnati, Ohio, for an "Improvement in car couplings."

"What we claim as our invention, and desire to secure by Letters Patent, is, the employment of the tripping pin (*b*, *d*,) in combination with the latch lever (*f*, *g*,) arranged and operating substantially as described, for the purposes set forth."

No. 23,706. Washburn Race and S. R. C. Mathews, of Seneca Falls, N. Y., for an "Improvement in hydrants."

"What we claim as our invention, and desire to secure by Letters Patent, is, the combination and arrangement of the parts herein described, consisting of the cap K, having within its socket the spring *j*, or its equivalent, stem attachment H, interior tube D, conical valve F, and closed seat G, whereby the valve is kept in place by the force of the spring *j*, and operated free from the external pressure of the water, substantially as and for the purpose set forth."

No. 23,707. Saml. Ray and Moses R. Shalters, of Alliance, Ohio, for an "Improvement in harvesting machines."

"We do not claim, broadly, the attaching of the finger bar F to the machine, by means of a joint to enable the finger bar to be raised or folded upward against the machine for this has been previously done; but having thus described our invention, what we do claim as new, and desire to secure by Letters Patent, is, 1st, attaching the finger bar E to the machine, by means of the plate G, one end of which is pivoted to the machine as at *l*, and the other end connected with the finger bar by joints *k*, *k*, the above parts being in connection with a jointed connecting rod *i*, to admit of the folding and turning of the finger bar, substantially as described. 2nd, placing the driver's seat J on the springs *r*, fitted in the hollow standards *p*, *p*, *q*, substantially as and for the purpose set forth."

No. 23,708. T. Reeve and M. B. Swezey, of Brooklyn, N. Y., for an "Improved folding seat."

"Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is, the seat B, attached to the end piece A of the pew or settee by the pin *b* of the bar *c* and the slot *a* in the end piece, and provided with the hinged back F and support E, the whole being arranged substantially as and for the purpose set forth."

No. 23,709. Willard Rhoads, of Baltimore, Md., for an "Improvement in snow ploughs for railroads."

"I claim the projecting flange *a*, in combination with the vertical sides *b*, in the construction of the R. R. track clearers."

No. 23,710. Silas C. Salisbury, of New York, N. Y., for an "Improvement in machines for tempering and moulding plastic materials."

"What I claim as my invention and improvement in the tempering and pressing of plastic material is, the employment of a series of two or more cylinders and the intervening guard blocks, in combination with a cylinder of larger diameter, provided with flanges on its ends, so that the periphery of the larger cylinder with its flanges, and the opposing surfaces of the series of cylinders and guard blocks, shall constitute the walls of a channel, in which the plastic material, on its passage to the die or mould, is worked, tempered, and pressed, as set forth. I claim giving to the surface of the cylinder *b* a greater velocity than the surface of the large cylinder A, for the purposes set forth. I claim forcing the plastic material into the die, between the cutting edges *s*, *s*, by the pressure of a coat or layer of plastic material formed on and adhering to the periphery of the large cylinder, as set forth."

No. 23,711. Jacob Rupertus, of Philadelphia, Pa., for an "Improvement in revolving fire-arm."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the safety tube E, constructed, applied, and operating substantially as and for the several purposes herein specified. 2nd, producing the necessary movements of the safety tube E by means of a forked or toothed lever I, a spring J, or its equivalent, and a tooth *u* on the tumbler, the whole being applied and operating substantially as herein described."

No. 23,712. Cornelius Scofield, of Trumbull, Conn., for an "Improvement in attaching the rail of carriage seats."

"I am well aware that rails have heretofore been attached to carriage seats by arms attached to seats in a manner very similar to mine, and each provided with jaws which project over the rail, so that screws may be placed in those parts of the jaws before the rail, in order to secure the same; in this case, however, it was necessary to remove a large number of screws, in order to be able to remove the rail. I do not claim, therefore, the manner of securing the rail to the seat by means of arms and screws; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the arms *a*, the ends of which form half-round recesses *d*, in combination with the arms C, and thumb-screw *k*, for the purpose of supporting the rail and securing the same to the seat, in the manner substantially as set forth."

No. 25,713. C. A. Schultz, of New York, N. Y., for an "Improvement in steam valves."

"Claim.—The combined arrangement of the spiral springs, and their inclosing columns, with the plate C, as and for the purposes above described."

No. 23,714. Chas. Schott and James C. Baldwin, of Nashville, Tenn., for an "Improvement in excavating machines."

"What we claim, and wish to secure by Letters Patent, is, the combination and arrangement of lever D, with its connection with bucket A, for loading and unloading, in the manner set forth."

No. 23,715. J. W. Sener, of Fredericksburg, Va., for an "Improvement in tea and coffee pot."

"Having thus fully described my invention, what I claim and desire to secure by Letters Patent, is, the safety apparatus herein-before described, the same consisting in the combination of the tube G with the cap H and valve J, constructed and operating as and for the purpose specified."

No. 23,716. S. B. Sexton, of Baltimore, Md., for an "Improvement in stoves."

"I do not claim any of the parts of this stove, separately considered; but I claim the covered fuel cylinder H, in combination with the chambers A, B, B¹, flues C and D, and dampers *a* and *b*, together with the rear casing R, constituting a cold air chamber, the arrangement being as set forth."

No. 23,717. Alexr. Shannon, of New York, N. Y., for an "Improvement in treatment of india-rubber."

"I do not claim the admixture of cork or other vegetable matter with caoutchouc or similar gums, neither do I claim treating india rubber with sulphur, as that has been used in connection with metallic compounds, &c.; but what I claim as my invention, and desire to secure by Letters Patent, is, the method herein set forth of treating caoutchouc so to combine therewith cork or its equivalent, substantially as set forth."

No. 23,718. Benjn. R. Smith, of Philadelphia, Pa., for an "Instrument for ascertaining the direction of sounds in fog, &c."

"Having thus fully described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is, a reflector made of suitable material, and of such a form or shape that it will collect all the rays or waves of sound entering it to a focus, when it may be pointed towards the direction from whence the sound comes, for the purpose of ascertaining the direction of the source of such sound, and conversely of throwing off from a reflector, in parallel lines, if need be, the sound of a bell, or whistle, which may be placed at the focus of the said reflector, substantially as described."

No. 23,719. Wm. Smith, of Pittsburgh, Pa., for "Improvements in coal-oil retorts."

"I am aware that shafts exposed to heat have been made hollow, and water or air conducted through them for keeping them cool; I, therefore, do not claim this broadly; but having thus described my invention, I claim as new in the construction of coal-oil retorts, and desire to secure by Letters Patent, is, the making of the agitating arms *h* hollow, and to communicate with the hollow shaft D, for the purpose of cooling them, by means of the current of air or water passing through the said shaft, substantially as herein set forth."

No. 23,720. Wm. H. Smith, of Newport, R.I., for an "Improvement in stoves."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement of the partitions F, F¹, in combination with the partitions K, and the openings *a*, *a*¹, for the purpose of forcing the hot air to circulate around and in front of the ash box, substantially as and for the purpose specified."

No. 23,721. Erastus Stebbins, of Chicopee, Mass., for an "Improvement in stop cocks."

"What I claim, and desire to secure by Letters Patent, is, the arrangement and combination of the collar I, flexible washer H, metallic washer G, as and for the purpose described. Also the chambered nut or valve L, having apertures M, as and for the purpose described."

No. 23,722. Nathan P. Stevens, of Keene, N. H., for an "Improvement in brake heads for railroad cars."

"What I claim as new, and desire to secure by Letters Patent, is, 1st, suspending the brake heads D to the ends of the transverse brake bar A by the journals and boxes, substantially in the manner and for the purpose set forth. 2nd, I claim forming cogs or protuberances on the peripheries of the journal sleeves C, and interposing strips of rubber G between them and the ends of the grooves in the journal box cap, in which the said cogs or protuberances move for causing a greater pressure to be extended on the lower than on the upper portions of the shoes E, as described."

No. 23,723. Geo. D. Stellson, of Rochester, N. Y., for an "Improvement in excavating machines."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with an endless belt of digging hoes, a presser wheel that acts independent of the weight of the machine for driving them into the ground, as described."

No. 23,724. Robt. Stott, of Baton Rouge, La., for an "Improvement in governors for sugar mills."

"I do not claim broadly the use of a weight when acting through eccentric movements to secure an uniform force, and allow the subject to move under that force; but I claim, in combination, the caps S, S, the bolts V, the plates X and Z, when actuated on by the employment of a weight, or its equivalent, through an eccentric movement, when made and arranged substantially as and for the purpose set forth."

No. 23,725. Geo. C. Taft, of Worcester, Mass., for an "Improved wrench."

"Having described my improved double-acting screw wrench, what I claim therein as new, and desire to secure by Letters Patent, is, the rosette *a*, with its female screw *o*, in combination with the stationary screw *b*, traversing male screw *f*, and sliding jaw *g*, *h*, with its female screw *p*, substantially as and for the purposes set forth."

No. 23,726. Wm. P. Trowbridge, of Washington, D. C., for an "Improved apparatus for deep-sea sounding and method of conveying and paying out line for other purposes."

"What I claim is, the mode of conveying and extending a line across or through a given space by means of a weight or projectile, the line being compactly coiled within a tube or case which is attached to the weight or projectile, and moves along with it, and is discharged from the case or holder as the weight or projectile advances while one end of the line is retained at the starting point, substantially as herein described. I do not limit my claim to the particular manner of coiling the line herein described, or to any one mode of giving motion to the same, which may be the force of gravity, the propelling power of a rocket, or cannon, or other motive power."

No. 23,727. A. P. Tutton, of Reading, Pa., for an "Improvement in railroad car brakes."

"I am aware that shoes have been placed between the wheels of a truck, and so connected by levers that they could be pressed simultaneously against the treads of the wheels. I do not claim, therefore, simply the employment or use of shoes placed between the wheels, at each side of a truck, to act upon the treads of the wheels, irrespective of the connecting of the shoes, to act as described. I claim, therefore, as new, and desire to secure by Letters Patent, connecting the two shoes E, E, between the wheels B, at each side of a truck, by means of racks B, *b*, and a pinion F, whereby the shoes, when brought in contact with the treads of the wheels, are made, by the action of the wheels, to move simultaneously in opposite directions, and bind or wedge between the wheels, to stop the same, substantially as described."

No. 23,728. Michael Van Debogert, of Binghamton, N. Y., for an "Improved washing machine."

"Having fully set out the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, subjecting the articles to be washed to the combined action of the fluted or roughened surfaces of the tub and cylinder, the two surfaces moving, in part, in opposite, and in part, in the same directions with each vibration of the cylinder, as herein set forth. 2d, I claim the arrangement of the means for gearing and ungearing the wheels, as herein recited, whereby I am enabled to give vibratory motion to both of the rubbing surfaces, as herein described."

No. 23,729. Richd. Van Velthoven, of Philadelphia, Pa., for an "Improvement in grates for furnaces."

"I claim, and desire to secure by Letters Patent, the frames G and G¹, with the bars I, forming the hinged rear of a furnace grate, in combination with the releasing and retaining cam K, operated by the rod O, or its equivalent, and the projecting bracket J, with its chain or equivalent; the whole being arranged substantially and for the purpose herein set forth."

No. 23 730. JACOB V. A. WEMPLE, of Chicago, Ill., for an "Improvement in harvesters."

"Having described my invention, and the operation thereof, what I claim as new, and desire to secure by Letters Patent, is, the guard rod W, to separate the falling grain from that which lies on the platform, while the rake is passing down, and lay hold thereof; and also to prevent the grain from falling on the rake;—arranged and operated substantially in the manner described."

No. 23,731. J. W. WETMORE, of Erie, Pa., for an "Improvement in railroad chairs."

"What I claim as my invention, and desire to secure by Letters Patent, is, notching the caps of the adjacent ends of H or T rails, as at *f*, and the adaptation of a chair A, to surround the two ends or joint within the shoulders of the notches, the chair forming the bearing surface for its length, and its leaves being bent under the base of the rail, and resting on the tie, substantially as set forth."

No. 23,732. CULLEN WHIPPLE, of Providence, R. I., for an "Improvement in machines for combing fibrous materials."

"What I claim as my invention, and desire to secure by Letters Patent is,—1st, arranging the series of gill combs *a*, *a*, *a*, *a*, with a hot chest, or its equivalent, in such manner that said combs can be alternately sheathed and protruded from between heated plates, in the manner substantially as described for the purposes specified. 2nd, I claim the combination of the stationary heated chest T with the movable jaw D, the two so combined operating to hold the fibrous substance firmly while the front end is being combed. 3rd, I claim arranging the series of fine screen combs *b*, *b*, with the heated chest T, substantially in the manner described for the purposes specified. 4th, I claim the arrangement and combination of the revolving cylinder C, for first combing the front end of the sliver, the series of fine screen combs *b*, *b*, for combing the back end of the sliver, and the nippers *k*, for drawing the sliver through the screen combs and delivering it upon the apron, the whole combination as arranged operating to draw and comb the wool or other fibrous material in a straight line and to deliver it in a position to be formed into a continuous sliver, substantially as described."

No. 23,733. EDWD. WHITELEY, of Boston, Mass., for an "Improvement in steam boilers."

"Claim.—What I claim as my invention, and desire to secure by Letters Patent, is, the water tubes *f* within the space E, surrounding the boiler, arranged and operating in the manner substantially as set forth."

No. 23,734. W. L. WILLIAMS, of New York, N. Y., for an "Improved machine for splitting fire-wood."

"I am aware that endless feeding chains have been previously used for feeding blocks of wood to be split to the splitting knives, and I do not claim broadly such device, irrespective of the lateral movement herein described, for chains for this purpose may be seen in my patented machine previously alluded to. The knife D has also been used, and may be seen in the above-mentioned machine, I therefore do not claim the knife D. But having described my invention, what I claim as new, and desire to secure by Letters Patent, is,—1, the employment or use of the endless feeding chains I, I, when arranged as shown, or in any suitable way, so as to have the usual rotating movement around their pulleys *h*, h^1, and also the lateral movement, for the purpose specified. 2, the endless feeding chains I, I, in combination with the yielding rollers *j*, *j*, for the purpose of permitting the lateral movement of the chains, as set forth. 3, the yielding pawls h^{11}, h^{11}, in connection with the yielding rods b^1, b^1, in shafts e^1 and spurs f^1, arranged substantially as described, to permit of the yielding of the blocks of wood while being split, as described."

No. 23,735. JAMES WILSON, C. GREEN, and WM. WILSON, jr., of Wilmington, Del., for an "Improved double-seaming machine."

"Having thus described our improvement, what we claim as our invention, and desire to secure by Letters Patent, is, the combination of the discs E and D, and the burring pulley H, the pearing down pullies I, the double burring pullies K, and the finishing pulley L, in the manner and for the purpose substantially as above described."

No. 23,736. JAMES WILSON, C. GREEN, and WM. WILSON, jr., of Wilmington, Del., for an "Improved machine for corrugating sheet metal."

"Having thus described our improvement, what we claim as our invention, and desire to secure by Letters Patent, is, the arrangement of the upper and lower heads, the forming rollers H, H, together with the rollers which support the cylinder to be corrugated, at the requisite angle, substantially as above described."

No. 23,737. D. A. WOODBURY, of Rochester, N. Y., for an "Improved variable cut-off gear for steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the rocker J, and its variable slide I, and the inclined or toggle-like connecting rods H. H^1, in combination with the eccentric M, or its equivalent, and the arms G, G^1, on the valve shafts, substantially as herein described."

No. 23,738. GILBERT YATES, of West Dresden, N. Y., for an "Improved mode of opening and closing farm gates by hand."

"I am aware that it is not new for persons to open and close farm and other gates without leaving their carriages, and that many devices for opening and closing gates in this way have been previously devised. One of these plans is found in the Patent of Webber, granted in 1855. I do not, therefore, wish to be understood as claiming to be the first to construct farm gates, in such a manner as that they can be opened by pulling upon a cord or chain on one side, and then closed by pulling on a similar cord or chain on the other side; but having described my improved device for opening and closing farm and other gates, what I claim as my invention, and desire to secure by Letters Patent, is, the combination of the levers or arms , G^1, with the connecting arms H, H^1, vibrating, connecting, and unlatching piece I, and cords *c*, I^1, I^{11}, when arranged and combined with the gate and posts, substantially as and for the purposes herein set forth."

No. 23,739. GEO. W. ZEIGLER, of Tiffin, Ohio, for an "Improved automatic fan."

"Having thus described the construction and operation of my improvement, I claim the combination of the levers B, B, supporting the bedstead with the escapement wheel F, lever E, pendulum and fan, together with the parts connecting the same, for operating the fan from the weight of the occupant of the bed, as described."

No. 23,740. FRANCIS BASCHNAGEL, of Wenham, Mass., assignor to the Beverly Rubber Company, of Beverly, Mass., for an "Improvement in restoring waste vulcanized rubber."

"What I claim as my invention, and desire to secure by Letters Patent, is, the process above described, that is, boiling waste vulcanized rubber in water after it has been reduced to a finely divided state, for the purpose of restoring the same to a plastic, gummy, or elastic state, fit to be used again in the manufacture of india-rubber fabrics and substances, as above set forth."

No. 23,741. THOS. BAXTER, of Petersburg, Va., assignor to Wm. H. Baxter, of same place, for an "Improvement in hydraulic presses."

"What I claim as my invention, and desire to secure by Letters Patent, is, the making the cylinders of hydraulic presses in a manner substantially as described."

No. 23,742. RICHD. BENNETT, of Redditch, England, assignor to J. F. Milward, of New York, N. Y., for "Improvements in needle wrappers."—Patented in England, 7th May, 1857.

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment, in combination with the outer wrapper A, of an inner wrapper *b*, with an attached piece *e* through which the needles are stuck, in the manner described. And I also claim the employment, in combination with such inner wrapper, of a loop *a* secured to the outer wrapper A, substantially as herein specified."

No. 23,743. TRUMAN COOK, of Washington, D. C., assignor to A. Thomas Smith, of same place, for an "Improvement in holding keys for strap connection for engines."

"I do not claim, generally, the principle of securing keys, for the purposes herein stated, as various devices have been resorted to with the hope of obtaining this object; but what I do claim therein, and desire to secure by Letters Patent, is, the notches A, F, in the key, as shown in Figures 1 and 4, the hole C in the gib, the notch D at the side of the said hole, the bolt I, with its peculiarly-formed head B, and the combination and arrangement of these parts, substantially upon the principle and in the manner as herein set forth."

No. 23,744. SHERMAN McLEAN, of Royalton, N. Y., assignor to the American Trades Company, of New York, N. Y., for an "Improved saw jointer."

"What I claim as my invention in the foregoing is, the arrangement and adjustment of the file in the tool or file carrier, so constructed that, when the flat side of the long arm of the tool is pressed against the side of the saw blade it will present the file exactly at right angles to the angular edges of the teeth, and, being passed along over them, will square and make uniform their edges, the saw blade being placed when the instrument is in use between the long and short arms of the saw jointer, as above described."

No. 23,745. H. W. ROWLAND and E. FORBIS, of Newport, Ohio, assignors to themselves and Washington Witherow, of same place, for an "Improvement in mole plow."

"What we claim as our invention, and desire to secure by Letters Patent, is, pivoting the carriage (A) to the beam (B) near its forward end, as represented, and in combination therewith the curved coulter (i) pivoted to the beam (B) and friction rest (c), all arrand and operating in the manner herein set forth."

No. 23,746. JOHN P. SCHENKL, of Worcester, Mass., assignor to himself and E. A. Dana, of Boston, Mass., for an "Improvement in the chamber of ordnance and other fire arms."

"Having thus described my invention, what I disclaim and claim is as follows:—I do not claim the invention claimed and described in the United States Patent numbered 21,802; but I do claim the combination of an intercepting reducer leader *p* with the secondary barrel or auxiliary charge chamber, and a projectile suitably adapted to the gun or piece of ordnance."

No. 23,747. O. M. STILLMAN and S. WILCOX, jr., of Westerly, R. I., for an "Improved thermostat for steam boilers."

"We do not claim immersing in the superheating steam bars composed of two metals, and controlling the heat by the deflection of the same, as this, or an equivalent use of such apparatus, is well known, and has been described in Dr. Ure's Dictionary of Arts; neither do we claim enclosing within the superheated steam a tube or vessel containing air, and allowing the contraction and expansion of the fluid to regulate the supply of heat to the steam, as this device, or its equivalent, has been before known; but, having now fully described our apparatus, what we claim as our invention, and desire to secure by Letters Patent, is, regulating the flow of the products of combustion to the superheater by the difference in pressure between the superheated steam and that of saturated steam, substantially in the manner herein described, and for the purpose set forth."

RE-ISSUES.

ELIAKIM B. FORBUSH, of Buffalo, N. Y., for an "Improvement in grain and grass harvesters."—Patented 20th July, 1852. — Re-issued 8th July, 1856.—Re-reissued 19th April, 1859.

"Having described my combined reaping and mowing machine, what I claim therein as new, and desire to secure by Letters Patent, is, first, the device for adjusting the cutting apparatus, which may be raised or lowered without changing the height of the main frame, in combination with the finger bar, either with or without the removable platform, substantially in the manner specified. Second, the combination of the inner projecting ends of the main frame, with the adjustable cutting apparatus, substantially in the manner and for the purpose specified. Third, supporting the clamp and finger bar by means of the slotted iron frames K, K, and locking bolts *i*, *i*, in combination with the cross pieces T, T^1, of the main frame, substantially as described." Fourth, the mould board L, constructed and arranged substantially in the manner and for the purpose set forth. Fifth, extending or widening out the upper part of the guard finger, substantially as represented by the overhanging bars *m*, *m*, in combination with the central bar n^1, in the manner and for the purposes specified. Sixth, arranging the three-pronged fingers above described, so that they mutually brace each other in front of the finger bar, as set forth, and are also braced and supported at each end of the cutter bar by the projections J and m^{111}, substantially in the manner and for the purpose specified. Seventh, the raking apparatus constructed and operating in the manner substantially as described. Eighth, the movable fulcrum upon which the rake is suspended and operated, in the manner substantially as described."

ELIAKIM B. FORBUSH, of Buffalo, N. Y., for an "Improvement in grain and grass harvesters."—Patented 18th March, 1856.—Re-issued 19th April, 1859.

"Having described my combined grain and grass harvester, what I claim therein as new, and for which I desire to secure Letters Patent, is, first, the manner of constructing and uniting the inner-rear corner of the main frame, so as to depress or drop the shoe and cutting apparatus, and serve as a continuation of the shoe for treading down the stubble and mown grass, in the manner and for the purposes specified. Second, the combination of the guide stirrup B, B, with the front of the main frame so as to permit the draft pole P to play above and below the front of the main frame, substantially as described. Third, connecting the draft pole to the machine by the oscillating pendent, substantially as and for the purposes described. Fourth, so connecting the draft pole to the machine as that the draft shall be from the axle or centre line of the driving and supporting wheel, in connection with the rear extension of the pole, in the manner and for the purposes specified. Fifth, the combination of the extended finger bar with the adjusting shoe E, and adjustable hinge runner *q*, substantially as described, for the purpose specified. Sixth, the combination of the main frame draft pole P, guide stirrups B, and adjustable shoe E, arranged with each other in the manner and for the purpose, substantially as specified. Seventh, the adjusting shoe E, constructed and operating in the manner above set forth. Eighth, the arrangement of the caster wheels *d* and *d*, *d*, with adjustable connecting bars in relation to the finger-bar platform and frames of the machine, in the manner and for the purpose substantially as described."

HAMILTON E. SMITH, of Philadelphia, Pa., for "Improved washing machines."—Patented 26th October, 1858.—Re-issued 19th April, 1859.

"Claims.—First, the vessel B, with its yielding valved diaphragm J, and the perforated diaphragm I, or its equivalent, in combination with a pipe G, communicating with the vessel at a point above, and the pipe H, at a point below the said diaphragm, and both pipes communicating with any suitable heating apparatus, substantially as and for the purpose set forth. Second, the reciprocating plunger C, with its enlarged end, constructed as set forth, namely, with the recess *m*, flanch *n*, and perforations *p*, in combination with the yielding diaphragm J, for the purpose specified. Third, providing the plunger C with an upper enlargement *q*, concave on the under side, and arranged in respect to the lower plunger, substantially as and for the purpose set forth."

DESIGN.

G. SMITH and H. BROWN, of Philadelphia, Pa., assignors to North, Chase, and North, of same place, for a "Design for stoves."

"What we claim as our invention, and desire to secure by Letters Patent, is, the design and configuration of the mouldings and ornaments, as herein described, forming an ornamental design for stoves."

ADDITIONAL IMPROVEMENTS.

ORLANDO L. CASTLE, of Upper Alton, Ill., for an "Improved arithmometer for addition."—Patented 2nd November, 1858.—Additional Improvement, dated 19th April, 1859.

"I do not claim the use of any particular kind or arrangement of keys; but I claim the combination of the rocker, keys, and shifting pawl, in any equivalent manner, and for the purposes set forth."

SIMON W. DRAPER and R. M. DRAPER, of South Dedham, Mass., for an "Improvement in machines for dressing mill stones."— Patented 15th May, 1856. — Additional Improvement, 19th April, 1859.

"What we claim as new, and desire to secure by Letters Patent, is, the bed piece A, with the cam B, bar or lever C, and rods *p*, *p*, attached, provided with springs *r*, in combination with the frame or carriage D, with pick shaft *i* attached, provided with the forked arm *o*, the whole being arranged to operate as and for the purpose set forth."

List of Specifications published during the week ending 7th May, 1859.

No.	Price.	Subject-Matter.
1499	4*d.*	(1858 *Disclaimer.*) Treating sewage and other matters, &c.
2013	3*d.*	Submarine electric telegraphs.
2171	3*d.*	Dress fastenings, &c.
2172	1*s.* 5*d.*	Manufacture of paper bags, &c.
2174	1*s.* 5*d.*	Arranging and moving fire-bars.
2177	7*d.*	Cornets, trumpets, &c.
2178	3*d.*	Folding and cutting lace, &c.
2180	3*d.*	Electric telegraphs.
2181	1*s.* 4*d.*	Construction of screw ships or vessels.
2183	1*s.* 3*d.*	Furnaces for heating iron and steel, &c.
2185	3*d.*	Portable fire escape.
2187	7*d.*	Electric telegraphs.
2188	3*d.*	Electric telegraph cables.
2189	3*d.*	Telegraphic cables.
2190	7*d.*	Manufacture of looped fabrics.
2191	3*d.*	Production of printing surfaces from engraved plates.
2192	5*d.*	Submarine electric telegraph cables.
2193	3*d.*	Ploughs.
2194	1*s.* 4*d.*	Looms for weaving carpets and other fabrics.
2195	1*s.*	Gas burner.
2196	10*d.*	Wheels.
2197	3*d.*	Blocks or surfaces for printing.
2198	10*d.*	Pianoforte action.
2199	3*d.*	Governor for marine and other steam engines.
2200	6*d.*	Fagot or fire lighter.
2201	3*d.*	Transfer printing and ornamenting on glass, &c.
2202	5*d.*	Preventing explosion of boilers.
2203	3*d.*	Manufacture of sulphate of copper
2204	3*d.*	Looms for weaving figured fabrics.
2205	9*d.*	Application of sails and keels to boats and vessels.
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CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638. Price 8*d.*
5. Description of the nature and working of the patent Waterscoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Watercommanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset, Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent, No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will, III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March*, 1744.) Price 1*s.*

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Day of Month.	Day of Week.	Morning.	Evening.	Total.
May 2	Monday -	273	505	778—Fine.
„ 3	Tuesday -	291	420	711— „
„ 4	Wednesday	186	111	297— „
„ 5	Thursday*	181	—	181— „
„ 6	Friday -	139	—	139— „
„ 7	Saturday -	237	—	237— „
	Total -	1307	1036	2343

* The Museum closes at 5 o'clock.

Total number of visitors since the period of free daily admission (12th May, 1858) to 7th May, 1859, —95,647.

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THE

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No. 559. FRIDAY, MAY 13, 1859. Price 2d.

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790. To WALTER BROWN, of Bolton-le-Moors, in the county of Lancaster, Clog Manufacturer, for the invention of "Improvements in manufacturing clog soles, and in the machinery employed therein."
On his petition, recorded in the Office of the Commissioners on the 30th day of March, 1859.

834. To THOMAS WILLIAMS, of Aberdaron, in the county of Caernarvon, Engineer, and JOHN HOBSON FULLER, of 70, Hatton Garden, in the county of Middlesex, Tool Manufacturer, for the invention of "Improvements in screw stocks and dies."
On their petition, recorded in the Office of the Commissioners on the 2nd day of April, 1859.

838. To CHARLES FELTON KIRKMAN, of Argyll Street, Regent Street, London, Gentleman, for the invention of "Improvements in the manufacture of cocoa nut fibre yarn and matting."
On his petition, recorded in the Office of the Commissioners on the 4th day of April, 1859.

848. To ANDREW SHANKS, Engineer, No. 6, Robert Street, Adelphi, Westminster, for the invention of "Certain improvements in machinery for forging and stamping metals."

856. And to THOMAS SCOTT, of Dundee, in the county of Forfar, North Britain, Gentleman, for the invention of "Improvements in preparing, treating, or manufacturing fibrous materials, and in the apparatus employed therein."
On both their petitions, recorded in the Office of the Commissioners on the 5th day of April, 1859.

886. To THOMAS SPENCER, of No. 192, Euston Road, Euston Square, London, Analytical and Consulting Chemist, for the invention of "Improvements in the economical treatment of refuse or waste matter containing sulphur."
On his petition, recorded in the Office of the Commissioners on the 9th day of April, 1859

898. To BENJAMIN BAUGH, Manager of Thomas Clutton Salt's Enamel Works, Bradford Street, Birmingham, in the county of Warwick, for the invention of "Certain improved arrangements for working fly presses by steam, water, or other power."

900. And to WILLIAM SCHOFIELD, of 13, Thomas Street, Stamford Street, Blackfriars Road, London, Mineral Water Manufacturer, for the invention of "An improved effervescing lemonade."
On both their petitions, recorded in the Office of the Commissioners on the 11th day of April, 1859.

926. To RICHARD COLEMAN, of Chelmsford, in the county of Essex, Agricultural Implement Manufacturer, for the invention of "Improvements in agricultural implements."

930. And to JOHN AMBROSE COFFEY, of 4, Providence Row, Finsbury, in the county of Middlesex, Engineer, for the invention of "Improvements in apparatus for heating liquids."
On both their petitions, recorded in the Office of the Commissioners on the 13th day of April, 1859.

934. To JOHN GILLETT, of Upper Brailes, in the county of Warwickshire, Agricultural Implement Maker, for the invention of "An improved mill used for grinding, crushing, and reducing bones and other mineral and vegetable substances."

936. To THOMAS BIRD, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in the application and use of a certain natural product or products in the manufacture of pickers for looms, drawing rollers

for spinning machinery, cop tubes, and for steps and bushes generally where lubrication is required."

938. To JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the county of Surrey, Engineer, for the invention of "Improvements in the means of preventing locomotive engines and carriages in motion on railways leaving or running off the rails."

940. To WILLIAM BARNES and SAMUEL PICKERING, both of 127, Brick Lane, Spitalfields, and JOHN ROBERTS, of William Street, Limehouse, all in the county of Middlesex, for the invention of "Improvements in retarding and stopping railway locomotives and trains."

942. To WILLIAM SINNOCK, of Brompton, in the county of Kent, Ropery Engineer, for the invention of "Improvements in submarine and subterranean electric telegraph cables, and in machinery for the manufacture thereof."

944. And to LINDLEY JOHN HIGHAM, of New York, in the United States of America, Gentleman, now residing at Edmund Place, in the city of London, for the invention of "Improvements in billiard tables."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of April, 1859.

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948. To JOHN CHAPMAN, of Wolverhampton, in the county of Stafford, Ironmaster, for the invention of "An improvement or improvements in the manufacture of angle iron."

950. And to ROBERT BOOT, of Hill Street, in the county of Surrey, Leather Dresser, for the invention of "Improvements in treating sheep or other pelts, so as to give them the appearance of rough calf."

On both their petitions, recorded in the Office of the Commissioners on the 15th day of April, 1859.

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952. To HENRY BARROW, of Birmingham, in the county of Warwick, Saddler, for the invention of "A new or improved fastening for fastening trunks, boxes, and articles of dress, and for such other purposes as the same is or may be applicable to."

954. To JOHN GLASGOW and SAMUEL HAND, of the city of Manchester, in the county of Lancaster, for the invention of "An improved variable circular motion applicable to slotting, shaping, and planing machines, or similar purposes."

956. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in apparatus for separating metals from their ores and other matters." — A communication from abroad by Henri François Toussaint, Chemist, and Louis Napoleon Langlois, Civil Engineer, both of Paris.

958. To JOHN HAMILTON, of No. 8, Exchange Square, Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in apparatus for regulating prime movers driven by water."

960. To HENRY HARRISON, of the firm of Joseph Harrison and Sons, of Blackburn, in the county of Lancaster, Machine Makers, for the invention of "Certain improvements in looms for weaving."

962. To HENRY HUSSEY VIVIAN, of Swansea, M.P., for the invention of "Improvements in smelting copper."

964. To GEORGE BISHOP CORNISH, of New York, in the United States of America, Master Mariner, for the invention of "Improvements applicable to fog horns."

966. And to JOHN MOULE, of Seabright Place, Hackney Road, in the county of Middlesex, for the invention of "A new compound liquid for illuminating purposes."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of April, 1859.

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968. To ROBERT WARRY, Armourer-Serjeant, of the 3rd Depôt Battalion, Chatham, for the invention of "Improvements in breech-loading ordnance and its projectiles."

970. To GEORGE PORTER, of the city of London, Smith and Gas-Fitter, for the invention of "Improvements in valves or cocks."

972. To JOSEPH SEAMAN, of Linslade, in the county of Buckingham, Engineer, for the invention of "Improvements in agricultural implements for working or cultivating the soil."

974. To JOHN CRAWFORD WILSON, of Wood Street, in the city of London, Warehouseman, for the invention of "A reversible shawl cloak."

978. To JOSEPH MORTON and HENRY SHAW MORTON, trading under the style or firm of Morton and Son, of Sheffield, in the county of York, Stove Grate Manufacturers, for the invention of "Improvements in hearth-plates or ash-pans."

980. To GEORGE COLLER, of Harlow, in the county of Essex, for the invention of "An improved mowing machine."

982. And to WILLIAM PARSONS, of Pontar-Tawe, near Swansea, in the county of Glamorgan, Tin Plate Manufacturer, for the invention of "Improvements in preparing sheet iron and other metal sheets for japanners and other uses."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of April, 1859.

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986. To CHRISTOPHER BATTY, of Manchester, in the county of Lancaster, Collector, for the invention of "An improved means or apparatus for effecting instantaneous communication on railways between passengers and officials."

990. And to JOHN WILLIAM MATTHEWS, of High Street, Poplar, in the county of Middlesex, Hat Manufacturer, for the invention of "An improvement in the manufacture of hats and other coverings for the head."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of April, 1859.

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992. To QUIN BECK, of the firm of James Meharg and Co., of Belfast, in the county of Antrim, Manufacturers, for the invention of "Improvements in stoves."—A communication from abroad by James Cherry, of Vermont, U.S.

994. To JOHN MORRIS JOHNSON and EDMUND JOHNSON, of Castle Street, Holborn, for the invention of "Improvements in the production of ornamental surfaces suitable for advertisement

tablets, plates for shop fronts, and for other uses."

996. And to HENRY RAWSON, of Leicester, for the Invention of "Improvements in machinery for combing wool and other fibres."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of April, 1859.

1000. To EDWARD COTTAM, of Pimlico, in the county of Middlesex, Engineer, for the invention of "Improvements in apparatus employed for cutting or sawing metals and other substances."

1002. To JAMES NAPIER, Gentleman, Partick, near Glasgow, in the county of Lanark, Scotland, for the invention of "Improvements in producing figures or representations upon glass."

1004. To JOHN DAVIES, of Tetbury, in the county of Gloucester, Machinist, for the invention of "A new or improved apparatus for ringing door bells, and a bolt to be used with the same apparatus, and for other purposes to which the said bolt is or may be applicable."

1006. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for the invention of "Improvements in knitting frames." — A communication from abroad, by Madame Henriette Louise Armande Hammerlin, of Paris.

1008. To EDWARD CLARK, of New York, in the United States of America, but now of Morley's Hotel, in the city of Westminster, Gentleman, for the invention of "Improvements in sewing machinery."—A communication from abroad, by Isaac Merritt Singer, of New York aforesaid.

1010. And THOMAS SEAVILLE TRUSS, of Darlington, in the county of Durham, Civil Engineer, for the invention of "Improvements in the construction of pipes, and in the mode of joining the same."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of April, 1859.

1014. To CHARLOTTE MANSEL, of Plymouth, in the county of Devon, for the invention of "A folding travelling case."

1016. To JOHN ARMSTRONG, of Sunderland, in the county of Durham, Timber Merchant, for the invention of "Improvements in drying and preserving timber."

1018. To JOHN ANGUS, of Glasgow, in the county of Lanark, North Britain, Saddlers' Ironmonger, for the invention of "Improvements in saddles."

1020. To PIERRE LEONARD MARC DEBAIN, of Paris, France, Gentleman, for the invention of "Improved means for transmitting motive power to ships, pumps, and other arrangements by which the displacement of fluids is effectuated."

1022. To PIERRE LEONARD MARC DEBAIN, of Paris, France, Gentleman, for the invention of "Improvements in making heat subservient for producing motive power."

1024. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent, for the invention of "An improvement in the manufacture of woollen cloth."—A communication from Louis Victor Lemaignen, residing at Liseux, France.

1026. And to WILLIAM MOXON, of Parliament Street, in the city of Westminster, Contractor, and JOSEPH JEFFREY BENNETT, of Homer Terrace, Victoria Park, in the county of Middlesex, Civil Engineer, for the invention of "Improved apparatus for raising or lifting and lowering heavy bodies."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of April, 1859.

1028. To WILLIAM STEVENSON, of Johnstone, in the county of Renfrew, North Britain, Manager to George Houston and Company, for the invention of "Improvements in spinning, doubling, and manufacturing cotton and other fibrous materials."

1030. To JAMES HIGGIN, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in treating madder, and plants of the same family, and preparations therefrom."

1032. To JOHN OWEN, Designer, and HINDLE DUCKWORTH, Manager, of Blackburn, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for leasing yarns."

1034. To THOMAS BUCKHAM, of Gloucester, in the county of Gloucester, Civil Engineer, for the invention of "An improvement in railway switches."

1036. To AUGUSTUS WILLIAM GADESDEN, of 56, Leman Street, Goodman's Fields, for the invention of "Improvements in producing solutions of sugar."

1038. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in sewing machines."—A communication from abroad by Robert Halsted Morford and Anthony Denton Morford, of New York.

1040. And to WILLIAM WARNE, JOHN AMERICUS FANSHAWE, JAMES ARCHIBALD JAQUES, and THOMAS GALPIN, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for the invention of "Improved compounds applicable for packing the joints of steam or other pipes, which compounds are also applicable for packing or lining parts of machinery in general, or parts of ships, bridges, tanks, or railways."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of April, 1859.

1042. To THOMAS HOLT, of Lower Place, in the parish of Rochdale and county of Lancaster, Engineer, and JOHN BROWN, of Oxford Street, Well Field, in the same parish and county, Agent, for the invention of "Improvements in apparatus, or an improved apparatus, for heating water for the supply of steam boilers, which improvements or apparatus are also applicable in some cases for the prevention of incrustation in steam boilers."

1046. To ROBERT MAIN, of Birkenhead, in the county of Chester, Carriage Builder, for the invention of "Improvements in wheels for carriages."

1048. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in vulcanizing and coloring caoutchouc, and in the preparation of caoutchouc paints and colors."

—A communication from abroad by Theophile Julien Laballe, of Paris.

1050. And to JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for combing wool and other fibrous substances."—A communication from abroad by Cullen Whipple, of the city and county of Providence, in the state of Rhode Island, United States of America.

On their several petitions recorded in the Office of the Commissioners on the 26th day of April, 1859.

1052. To JEAN MARIE CIROUX, of Brussels, in the kingdom of Belgium, Merchant, for the invention "Improvements in lamp-glasses and shades, applicable to gas-burners, light-houses and railway-signals."

1054. To JOSEPH HYDE, of Hollingworth, near Mottram, in the county of Chester, Engineer, for the invention of "Certain improvements in steam-boilers."

1058. To ROBERT JAMES LAING, of the Independent Gas Works, Haggerstone, in the county of Middlesex, Engineer, for the invention of "Improvements in wet gas-meters."

1060. To JAMES HOLROYD, of Leeds, in the county of York, Cloth Finisher, for the invention of "Improvements in machinery used for finishing woollen and other cloths."

1062. And to Sir THOMAS TASSELL GRANT, K.C.B., of No. 20, Chester Terrace, Regent's Park, in the county of Middlesex, for the invention of "Improvements in ships' cooking apparatus."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of April, 1859.

1066. To RICHARD JONES, of the New Kent Road, in the county of Surrey, for the invention of "An improved safety-lamp."

1068. To NICOLAS LIBOTTE, Mechanician, of No. 33, Boulevard St. Martin, Paris, empire of France, for the invention of "A steam brake for mines, which may also be worked by hand."

1072. To JOHN WHEAT, of Hinckley, in the county of Leicester, for the invention of "Certain improvements in drilling-machines employed for agricultural purposes."

1074. And to ARTHUR BOYLE, of Birmingham, in the county of Warwick, Tool Maker, for the invention of "Improvements in the manufacture of certain parts of umbrellas and parasols."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of April, 1859.

1078. To HENRY BOSSHARD, of Paris, in the empire of France, Engineer, for the invention of "An improved mechanism for obtaining and imparting motive power."

1080. And to SIMON DE CAZENAVE, of No. 189, Regent Street, in the county of Middlesex, for the invention of "An improved lubricating compound."

On both their petitions, recorded in the Office of the Commissioners on the 29th day of April, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given, that the petition of

1158. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, praying for Letters Patent for the invention of "A self-regulating horse machine,"—a communication from abroad by P. Isaac Garin, No. 10, Rue Mogador, Paris, in the empire of France,—was deposited and recorded in the Office of the Commissioners on the 9th day of May, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And notice is hereby also given, that the petition of

1161. GEORGE GIBSON BUSSEY, of Dunn's Passage Factory, 485, New Oxford Street, in the county of Middlesex, Manufacturer of Leather Goods, praying for Letters Patent for the invention of "An improved contrivance for carrying cartridges and to facilitate using them," was deposited and recorded in the Office of the Commissioners on the 9th day of May, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

12th May, 1859.

2547. JOHN COURAGE, of Horsleydown, in the county of Surrey, Brewer, and FREDERICK BENNETT, of Holywell, in the county of Flintshire, Smelter, for an invention of "Improvements in furnaces for reducing and smelting ores, scoria, slag, and waste."—Dated 13th November, 1858.

2548. JAMES TAYLOR, of Birkenhead, Engineer, for an invention of "Improvements in portable steam engines."—Dated 13th November, 1858.

2551. LOUIS PETRE, of Hatton Garden, in the county of Middlesex, Glass Silverer, for an invention of "Improvements in the application of glass to ornamental and useful purposes."—Dated 13th November, 1858.

2552. ISAAC LIVERMORE, of 5, Shrubland Grove East, Queen's Road, Dalston, in the county of Middlesex, for an invention of "An improvement in the manufacture of shuttlecocks."—Dated 13th November, 1858.

2557. MATTHEW PULLAN, of Horsforth, near Leeds, in the county of York, Bleacher, for an invention of "Improvements in machinery for drying yarns and other materials."—Dated 13th November, 1858.

2558. JOHN ADDY HOPKINSON, of Huddersfield, in the county of York, Engineer, for an invention of "Improvements in steam boilers."—Dated 13th November, 1858.

2562. George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "Improvements in the process of finishing piled fabrics, and in apparatus employed in such process."—A communication from a Foreigner residing abroad.—Dated 15th November, 1858.

2568. John Golding Bunting, of the city of Saint John, in the Province of New Brunswick, in British North America, but at present at the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for an invention of "A mechanical horse-tamer or brake."—Dated 15th November, 1858.

2569. John Brennand, of Manchester, in the county of Lancaster, Calico Printer, for an invention of "Improvements in the method of effecting the locomotion of carriages, which improvements are also applicable to other similar purposes."—Dated 16th November, 1858.

2571. Joseph Constant Boisneau, of Chatellerault, in the French empire, Engineer, for an invention of "An improved horse-mill or gear."—Dated 16th November, 1858.

2572. Alfred Isidore Honoré Parent, of Paris, in the French empire, Manufacturer, for an invention of "An improved manufacture of buttons, and the apparatus employed therein."—Dated 16th November, 1858.

2573. James Samuel, of Great George Street, in the city of Westminster, Civil Engineer, for an invention of "Improvements in sleepers or bearers for rails."—Dated 16th November, 1858.

2575. Charles James Clowes Perry, of Williamstown, in the colony of Victoria, Member of the Legislative Assembly, for an invention of "An instrument to be used chiefly on board ship for approximating, in certain cases, the course of an approaching vessel, either in the day or night, and the relative angle of both ships' courses, in order to avoid a collision, to be called 'Perry's anti-collision dial.'"—Dated 16th November, 1858.

2587. John Robertson, of Saint Ninians, in the county of Stirling, North Britain, Gentleman, for an invention of "Improvements in musical instruments."—Dated 17th November, 1858.

2641. Daniel Evans, of Chobham Cottages, New Town, Stratford, in the county of Essex, for an invention of "Improvements in tubular steam boilers and fire places, or furnaces used therewith."—Dated 20th November, 1858.

2649. Francois Alphonse Theroulde, of 67, Rue Caumartin, Paris, for an invention of "Improvements in obtaining salts and products from the ashes of marine plants."—Dated 22nd November, 1858.

2669. James Syson Nibbs, of the Manor of Aston, in the county of Warwick, Lamp and Chandelier Manufacturer, for an invention of "Improvements in lighting, heating, and ventilating."—Dated 24th November, 1858.

2702. George Bowden Sander, of High Holborn, in the county of Middlesex, for an invention of "Improvements in jugs."—Dated 27th November, 1858.

2723. Daniel Evans, of Chobham Cottages, New Town, Stratford, in the county of Essex, and George Jones, of Charlotte Place, Upper Kennington Lane, in the county of Surrey, Engineers, for an invention of "Improvements in pumps and water guages."—Dated 29th November, 1858.

2736. Robert Henry Bow, of Edinburgh, in the county of Mid-Lothian, North Britain, Civil Engineer, for an invention of "Improvements in railway chairs and fastenings."—Dated 1st December, 1858.

2752. John Lewis, of Elizabeth, in the county of Essex, and state of New Jersey, United States of America, for an invention of "Improvements in means for attaching sails to the yards of ships or vessels."—Dated 1st December, 1858.

2779. Jean Baptiste Antoine Monnier, of Nemours (Seine et Marne), France, for an invention of "Improvements in actuating railway brakes."—Dated 4th December, 1858.

18. Isaac Wood, of Charing Cross, for an invention of "Improvements in cutting and finishing corks, and in machinery used for such purposes."—A communication from abroad by Henry F. Cox and Alexander Millar, of New York.—Dated 1st January, 1859.

86. Robert Hawthorn and William Hawthorn, both of the town and county of Newcastle-upon-Tyne, Engineers, for an invention of "Improvements in apparatus for promoting combustion and preventing smoke in coal burning locomotives and other steam boiler furnaces."—Dated 11th January, 1859.

137. James Montgomery, of the city of New York, in the United States of America, for an invention of "Improvements in the construction of the hulls of steam and other vessels, and in the feed water, heaters, boilers, water gauges, condensers, engines, and propelling machinery appertaining to the former, a portion of which improvements (with the exception of those on the hull) are applicable to analogous useful purposes."—Dated 17th January, 1859.

205. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improved machinery for cutting files."—A communication from Milton D. Whipple, of the United States of America.—Dated 22nd January, 1859.

435. John James Russell, of Wednesbury, in the county of Stafford, for an invention of "Improvements in machinery used for heating and welding the edges of the plates used in the manufacture of cylinders and other articles."—Dated 16th February, 1859.

437. Jules Seguin, Doctor of Medicine, of 4, Grande Rue de Gravelle à St. Maurice (Seine), France, for an invention of "Improvements relating to the employment of moving power arising from the tides, and its application to manufactur-

ing, agricultural, and other purposes."—Dated 16th February, 1859.

568. William Score, of 9, Osborne Terrace, Clapham Road, in the county of Surrey, Chemist, for an invention of "Improvements in the manufacture of soap."—Dated 3rd March, 1859.

577. Charles Roper Mead, of 176, Great Dover Street, in the Borough of Southwark, Gas Engineer, for an invention of "Improvements in water gas meters."—Dated 4th March, 1859.

615. John Scott Russell, of Great George Street, Westminster, for an invention of "Improvements in building ships and other vessels."—Dated 9th March, 1859.

630. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved construction of steam engine, applicable also to the raising of water."—A communication from abroad by Samuel Huse, of the United States of America.—Dated 11th March, 1859.

642. Alfred Tylor, of Warwick Lane, Newgate Street, for an invention of "Improvements in apparatus for regulating the supply of water to water-closets and other vessels."—Dated 14th March, 1859.

705. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in propelling vessels."—A communication from abroad by Theodore W. Phinney, of Newport, Rhode Island.—Dated 19th March, 1859.

729. Sir Peter Fairbairn, of Leeds, in the county of York, Knight, and Robert Newton, of Leeds aforesaid, Commercial Traveller, for an invention of "Straightening and separating the fibres of silk waste, and laying them in parallel lengths preparatory to combing or dressing."—Dated 22nd March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 11th May*, 1859, *inclusive.*)

9th May.

1105. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in machinery for manufacturing tubes and pipes; applicable also to the rolling of rods and bars."—A communication.—Dated 10th May, 1856.

1124. Hiram Tucker, of the state of Massachusetts, of the United States of America, for an invention of "An improved spring sacking or foundation for a bed, mattrass, or other like article."—Dated 13th May, 1856.

1162. William Henderson, of Dunkeld, Perthshire, Gardener to His Grace the Duke of Athol, for an invention of "Improvements in the manufacture of brooms."—Dated 16th May, 1856.

1255. Charles Cowper, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, for an invention of "Improvements in the treatment of coal, and in the purification, desiccation, and agglomeration of coal, and in machinery and apparatus for such purposes."—A communication.—Dated 26th May, 1856.

10th May.

1206. Alexander Allan, of the town and county of Perth, North Britain, Engineer, and Thomas Hunt, of Crewe, in the county of Chester, Engineer, for an invention of "Improvements in the construction of locomotive and other steam-engine and carriages, and in the rolling stock of railways."—Dated 21st May, 1856.

1246. Robert Adam Whytlaw and Alexander Mitchell the younger, both of Glasgow, in the county of Lanark, North Britain, Manufacturers, for an invention of "Improvements in weaving."—Dated 24th May, 1856.

1270. Lemuel D. Owen, of Southampton Street, London, in the county of Middlesex, Engineer, for an invention of "Improvements in the manufacture of artificial stone."—A communication.—Dated 28th May, 1856.

11th May.

1185. John Wilkes, of Birmingham, in the county of Warwick, Manufacturer, and Thomas Wilkes, of Birmingham aforesaid, Manufacturer, and Gilbert Wilkes, of Birmingham aforesaid, Manufacturer, for an invention of "A new or improved manufacture of rollers or cylinders for printing fabrics."—Dated 19th May, 1856.

1201. Alexandre Henri Dufresne, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, for an invention of "An improved process of gilding and ornamenting steel and other metals."—Dated 21st May, 1856.

928. Uriah Scott, of Camden Town, in the county of Middlesex, Engineer, for an invention of "Improvements in metal fittings for furniture."—Dated 18th April, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



BELGIUM.*

List of Patents of Invention Delivered on the 21st April and 5th May, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 555 of this Journal.)

5858. J. F. Henneuse, of Brussels, for "An apparatus for removing snow."—Dated 5th May, 1858.

7201. J. J. Lixhon, of Liége, for "A decimal balance."—Dated 4th March, 1859.

7217. A. Pelletier, of Brussels, for "A railway break."—Dated 7th March, 1859.

7344. C. S. Lerouge and F. Bouquié, represented by A. Picard, for an imported invention of "Fixing railway sleepers."—Dated 2nd April, 1859.—(French Patent, 24th March, 1858.)

7347. P. J. Meslin, represented by Depuichault, of Schaerbeek, for an imported invention of "Improvements in screw-presses."—Dated 2nd April, 1859.—(French Patent, 7th December, 1858.)

7355. E. Libotte and G. Planche, of Gilly, for "A single-action parachute."—Dated 5th April, 1859.

7357. J. Vallod, of Schaerbeek, a Patent of Improvement for "Additions to apparatus for lubricating railway carriages."—Dated 5th April, 1859.—(Original Patent, 28th June, 1855.)

7359. A. Baillot, of St. Josse-ten-Noode, for "An apparatus for closing Venetian blinds."—Dated 5th April, 1859.

7360. F. Sievers, represented by A. de Vos-Verraert, of Brussels, for "Improvements in saddles."—Dated 10th April, 1859.

7363. Y. Hamilton and W. Nash, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in locks and keys."—Dated 7th April, 1859.—(English Patent, 5th October, 1858.)

7364. E. Dumont, of Liége, a Patent of Improvement for "Improvements in gas carburators."—Dated 5th April, 1859.—(G. Jeanne's Original Patent, 4th March, 1858.)

7365. B. J. Jean and J. Boucher, of St. Ghislain, for "A process for preserving beer-yeast."—Dated 21st April, 1859.

7366. P. Vandevoorde, of Lokeren, for "A metrical measure."—Dated 7th April, 1859.

7367. A. R. André, of Charleroi, for "A machine for manufacturing bolts and rivets by the hot and cold process."—Dated 8th April, 1859.—(Original Patent, 13th December, 1858.)

7368. Ch. Laigneaux, represented by V. Laigneaux, of Mons, for "A kind of bricks for copings of walls."—Dated 8th April, 1859.

7369. J. Chaineux, of Wandre, a Patent of Improvement for "Additions to his breech-loading revolver."—Dated 8th April, 1859.—(Original Patent, 4th June, 1858.)

7370. P. F. Joly, represented by O. Daillencourt, of Brussels, a Patent of Improvement for "Additions to his apparatus for obtaining, drying, and superheating steam."—Dated 9th April, 1859.—(Original Patent, 12th August, 1858.)

7371. A. Bessemer, represented by Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of iron and steel, and in apparatus used thereat."—Dated 9th April, 1859.—(French Patent, 5th April, 1859.)

7372. C. Mayer, represented by Biebuyck, of Brussels, for an imported invention of "A machine for crushing solid inks and other tinctorial substances."—Dated 9th April, 1859.—(French Patent, 28th March, 1859.)

7373. H. Jackson, represented by A. Anoul, Ixelles, for an imported invention of "Improvements in the manufacture of lubricating substances."—Dated 9th April, 1859.—(English Patent, 26th July, 1858.)

7374. P. J. Cools, of Koekelberg, for "Composing a waterproof coating, called 'tar lac.'"—Dated 9th April, 1859.

7375. J. W. Duncan and J. E. Gwynne, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in apparatus for obtaining and condensing steam."—Dated 9th April, 1859.—(English Patent, 18th March, 1859.)

7376. J. E. Spanoghe, of Antwerp, for "A system of pumps for taverns."—Dated 9th April, 1859.

7377. F. Blanckart, of Liége, a Patent of Improvement for "Modifications in his breech-loading fire-arms with Lefaucheux' cartridges."—Dated 11th April, 1859.—(Original Patent, 1st June, 1858.)

7378. F. Martin, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A machine for splitting hides."—Dated 11th April.—(Original Patent, 28th December, 1858.)

7379. P. J. B. and L. E. Depoully, represented by H. Biebuyck, Brussels, for an imported invention of "A mode of preparing indigo for fast blue dyeing."—Dated 11th April, 1859.—(Original Patent, 17th February, 1859.)

7380. J. M. Ciroux, represented by D. de Vos Verraert, Brussels, for "A kind of glasses and shades applicable to all lamps."—Dated 11th April, 1859.

7381. J. Le Duc, represented by X. Raclot, Brussels, for a Patent of Improvement for "A chain-stitch sewing machine."—Dated 11th April, 1859.—(Original Patent, 21st May, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7382. E. DE CARANZA, represented by X. Raclot, of Brussels, for "New apparatus and new substances which contain more gases than coal, for gas-lighting."—Dated 11th April, 1859.

7383. J. F. DAMSEAUX, of Verviers, for "Modifications in warping-frames."—Dated 12th April, 1859.

7384. A. DESSART, of Limbourg, for "A process for sizing warps of woollen fabrics."—Dated 12th April, 1859.

7385. F. RAURIFE, of Liége, for "A system of straps of flat-plaited wire, or of raw or galvanized copper wire."—Dated 12th April, 1859.

7386. F. ROBYNS, of Montigny-sur-Sambre, for "A liquid for destroying bugs and other insects."—Dated 12th April, 1859.

7388. ED. DAVELING-D'ELHONGNE, of Bruges, for "A portable printing press for obtaining proof-sheets."—Dated 13th April, 1859.

7389. T. J. DEFRAITEUR, of Petit-Rechain, for "A heating box applicable to cylinder machines used in fulling cloth."—Dated 14th April, 1859.

7390. E. J. MOUALHIER, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "A tubular apparatus with a double current of air."—Dated 12th April, 1859.—(French Patent, 6th April, 1859.)

7392. L. WRAY, represented by J. Piddington, of Brussels, for an imported invention of "Improved compounds for coating and insulating electric telegraph wires."—Dated 12th April, 1859.—(English Patent, 12th October, 1858.)

7393. F. FAY, of Brussels, for "Improvements in hardening vulcanized india rubber for dental surgery."—Dated 12th April, 1859.

7394. V. DORÉ, represented by A. Hennelle, of Brussels, for an imported invention of "A system of knuckle joints for water, gas, and other pipes."—Dated 12th April, 1859.—(French Patent, 18th February, 1859.)

7395. V. B. C. VANNIER, represented by A. Hennelle, of Brussels, for "A process of gilding."—Dated 13th April, 1859.

7398. J. C. SCHRODER, represented by H. Biebuyck, of Brussels, for an imported invention of "Treatment of molasses for extracting the sugar therefrom."—Dated 13th April, 1859.—(French Patent, 7th April, 1859.)

7399. L. DE KEIRSSCHIETER, of Iseghem, for "A machine for making steel combs for weaving."—Dated 14th April, 1859.

7400. CH. PIETRONI, represented by X. Raclot, of Brussels, for an imported invention of "Manufacture of soap from neutral alkali by steam."—Dated 14th April, 1859.—(French Patent, 9th April, 1859.)

7401. L. J. E. DUPONT, represented by O. Daillencourt, Brussels, a Patent of Improvement for "Modifications in his apparatus for separating grits from chaff."—Dated 14th April, 1859.—(Original Patent, 23rd March, 1859.)

7402. F. WILLIAMES, of Châtelet, for "A system of parachutes for mines."—Dated 14th April, 1859.—(Original Patent, 5th May, 1859.)

PATENTS DELIVERED ON THE 5TH MAY, 1859.

7391. G. PRICE and W. DAWES, represented by J. Piddington, Brussels, for an imported invention of "Improvements in steam boilers, and in apparatus belonging thereto."—Dated 12th April, 1859.—(English Patent, 2nd September, 1858.)

7403. A. JACQMART, of Montigny-sur-Sambre, for "A system of grates of furnaces for heating and puddling iron."—Dated 15th April, 1859.

7404. A. JACQMART, of Montigny-sur-Sambre, for "A system of restoring twyers of blast furnaces."—Dated 16th April, 1859.

7405. N. LIBOTTE, represented by J. Gochet, of Gilly, a Patent of Improvement for "Modifications in his system of parachutes for mines."—Dated 16th April, 1859.—(Original Patent, 23rd June, 1858.)

7407. N. J. ANDRIEN, of Liége, for "A smoke-consuming apparatus applicable to chimneys."—Dated 15th April, 1859.

7408. V. GOFFINET, of Liége, for "A system of spiral bridges and semi-circulars for fancy and soldiers' fire-arms."—Dated 18th April, 1859.

7409. H. A. ARCHEREAU, of Marcinelle, for "Using the power of water and other aeriform steam by making it act on moveable sides or diaphragms."—Dated 18th April, 1859.

7410. T. BEKKER, of Liége, a Patent of Improvement for "Modifications in Bylandt's revolving fire-arms."—Dated 16th April, 1859.

7411. CH. RADCLIFFE, represented by A. Callès, of Molembeek St. Jean, for an imported invention of "A machine for wetting wool and tissues."—Dated 16th April, 1859.—(French Patent, 14th April, 1859.)

7412. J. B. F. MASSON, represented by J. Piddington, Brussels, for an imported invention of "Improvements in the manufacture of thin tin sheets."—Dated 16th April, 1859.—(English Patent, 23rd March, 1859.)

7413. J. MITCHELL, represented by A. Callès, of Molembeek St. Jean, for an imported invention of "Improvements in the manufacture of woollen and other yarns."—Dated 16th April, 1859.—(English Patent, 8th October, 1858.)

7414. Baron H. DE BONHOME, for "A thrashing machine."—Dated 15th April, 1859.

7415. L. LE CHATELIER, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Manufacture of aluminium."—Dated 15th April, 1859.—(Original Patent, 8th September, 1858.)

7416. GUINON, MARNAS, and BONNET, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Manufacturing and applying a product called 'French purple.'"—Dated 15th April, 1859.—(Original Patent, 3rd May, 1858.)

7417. J. DUCOURNAN, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A machine for crushing stones and ores."—Dated 15th April, 1859.—(Original Patent, 6th February, 1859.)

7418. Mrs. LEFEBVRE, née Branchu, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of nitric acid, and obtaining

thereby artificial saltpetre beds." — Dated 15th April, 1859.—(French Patent, 9th April, 1859.)

7419. D. N. Manclère, represented by H. Biebuyck, of Brussels, for an imported invention of "Heating stoves and other drying rooms by means of the gas of blast furnaces." — Dated 15th April, 1859.—(French Patent, 14th February, 1859.)

7420. Ch. H. Raub and A. Lunel, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for subduing horses."—Dated 15th April, 1859. — (French Patent, 9th April, 1859.)

7421. B. Goodfellow, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in steam engines."—Dated 15th April, 1859.—(French Patent, 9th April, 1859.)

7422. N. J. Grivot, represented by X. Raclot, of Brussels, for an imported invention of "An apparatus for washing potatoes and cleaning them of stones for fecula works."—Dated 15th April, 1859. —(French Patent, 14th April, 1859.)

7423. L. J. Ganser and L. Drouhin, represented by X. Raclot, of Brussels, for "A rotary steam engine." — Dated 15th April, 1859. — French Patent, 6th April, 1859.)

7424. Ed. Pesier, represented by De Vos-Verraert, Brussels, a Patent of Improvement for "Using alcohol for removing impurities from syrup."—Dated 15th April, 1859.—(Original Patent, 2nd April, 1858.)

7425. P. Sabatier and J. T. Mourié, of Brussels, for an imported invention of "Manufacture of articles of cast-steel, and especially of wheel-tyres." —Dated 15th April, 1859. — (French Patent, 8th April, 1859.)

7426. Th. Picha, of Ghent, for "A system of pavement of cement-beton."—Dated 16th April, 1859.

7427. A. L. Gerard, of Liége, a Patent of Improvement for "A system of chimneys for preventing fires."—Dated 19th April, 1859.—(Original Patent, 21st October, 1858.)

7428. J. J. Gilis, of Braine-le-Comte, for "A locomotive-break."—Dated 19th April, 1859.

7429. V. Bonauguere, of Malines, for "A stove heated by lighting gas." — Dated 21st April, 1859.

7432. Gaspard-Heuse, represented by F. Bailleux, of Liége, for "Manufacture of barrels for fancy guns."—Dated 22nd April, 1859.

7433. A. Heron, of Liége, for "An electro-galvanic apparatus for extracting teeth without causing pain."—Dated 22nd April, 1859.

7434. A. Pliers, of Liége, a Patent of Improvement for "Modifications in his pistols."—Dated 22nd April, 1859. — (Original Patent, 28th March, 1859.)

7435. A. Leblanc, represented by L. Duru, of Brussels, for an imported invention of "Improvements in dyeing and finishing yarns and tissues." Dated 18th April, 1859.—(French Patent, 2nd April, 1859.)

7436. M. Castay, represented by O. Daillencourt, of Brussels, for an imported invention of "A system of jointed metallic bridges with lozenges, circumferences, and semi-circumferences." — Dated 18th April, 1859.—(French Patent, 22nd November, 1858.)

7437. J. Fielden, represented by F. Anthoine, of Brussels, for an imported invention of "Improvements in constructing or winding up bobbins used in weaving filamentous substances." Dated 19th April, 1859.—(English Patent, 14th September, 1858.)

7438. Th. Wheeler, represented by F. Anthoine, Brussels, for an imported invention of "A machine for washing, wringing, or drying, pressing, and mangling linen, &c." — Dated 19th April, 1859.—(English Patent, 14th July, 1858.

7439. F. Watkins, represented by A. Anoul, Ixelles, for an imported invention of "Improvements in machines for making bolts, nails, and rivets."— Dated 19th April, 1859.— (English Patent, 15th July, 1857.)

7440. F. Michel, represented by Gilleau, Ixelles, for "Shoeing horses without using nails."— Dated 20th April, 1859.

7441. P. L. M. Debain, represented by D. de Vos-Verraert, Brussels, for an imported invention of "A diaphragmatic apparatus for propelling vessels and other machines, displacing fluids."—Dated 20th April, 1859.—(French Patent, 12th April, 1859.)

7443. Count A. D'Adhémar, represented by A. Crooy, of Brussels, for "A wet process for obtaining hydro-carburet from peat and other fuel." —Dated 20th April, 1859.—(French Patent, 14th April, 1859.)

7444. J. E. S. Achet, née Robert de Massy, represented by A. Crooy, Brussels, a Patent of Improvement for "Modifications in his mode of stopping horses."—Dated 20th April, 1859.—(Original Patent, 3rd March, 1859.)

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NOTICE is hereby given, that

29. WILLIAM RENTON, of Leeds, in the county of York, Cloth Dresser, THOMAS RENTON, of Leeds aforesaid, Millwright, and WILLIAM BINNS, of Leeds aforesaid, Cloth Finisher, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in raising the nap or pile of textile fabrics."

As set forth in their petition, recorded in the said office on the 3rd day of January, 1859.

36. And CHARLES DE FOREST, of Leicester Square, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improvement in the manufacture of springs for carriages and other uses."—A communication from Charles Goodyear, junior, residing at New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 4th day of January, 1859.

47. And WILLIAM RENTON, of Leeds, in the county of York, Cloth Dresser, THOMAS RENTON, of Leeds aforesaid, Millwright, and WILLIAM BINNS, of Leeds aforesaid, Cloth Finisher, have given the like notice in respect of the invention of "Improvements in finishing woollen and other fabrics."

48. And JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machines for the manufacture of bolts, rivets, and spikes."

As set forth in their respective petitions, both recorded in the said office on the 6th day of January, 1859.

54. And JEAN JOSEPH FLORENCE, of Paris, France, Merchant, has given the like notice in respect of the invention of "Improvements in reels or spooling-wheels."

As set forth in his petition, recorded in the said office on the 7th day of January, 1859.

67. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in purifying natural phosphates of lime."—A communication from Emile Constant Martin, residing at Paris, in the empire of France, formerly Banker.

69. And JOHN THOMAS FORSTER, of Holland Road, Kensington, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in bed berths, applicable for bunks, hammocks, cots, and other fixed and moveable sleeping places."

70. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in steam engines and steam generators."—A communication from abroad by Louis Arnier, of Marseilles, in the empire of France.

As set forth in their respective petitions, all recorded in the said office on the 8th day of January, 1859.

72. And ROBERT DAWSON CLEGG, of Manchester, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in signalling apparatus."

78. And THOMAS HARRIS TOMS, of Staining Lane, in the city of London, has given the like notice in respect of the invention of "The employment of certain materials for the production of raised ornamental figures or devices upon textile fabrics."

As set forth in their respective petitions, both recorded in the said office on the 10th day of January, 1859.

79. And EUGENIO AGNENI, of 29, Devonshire Street, Queen's Square, Bloomsbury, in the county of Middlesex, an Historical Painter, native of

Rome, has given the like notice in respect of the invention of "Increasing particularly the effect of decorative pictures, landscapes, drawings, and prints, through looking-glasses."

81. And JOHN BIERS the younger, of No. 38, Rochester Road, Kentish Town, in the parish of Saint Pancras, in the county of Middlesex, Coach Maker, has given the like notice in respect of the invention of a "Self-acting carriage wheel break."

84. And DAVID EDWARD HUGHES, of New York, but now residing at Northampton Square, in the county of Middlesex, Telegraphic Engineer, has given the like notice in respect of the invention of "An improved mode of insulating electrical conducting wires."

85. And BERNARD JOSEPH RUBENSTEIN, late of Paris, and now of London, Dentist, has given the like notice in respect of the invention of "Improvements in dentistry."

87. And CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in supports for electric telegraphic line wires, and in tools or apparatus to be used in the construction of such supports, part of which improvements are applicable to the joining of pipes and other articles."

89. And NICHOLAS PROCTER BURGH, of Sheerness, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines."

As set forth in their respective petitions, all recorded in the said office on the 11th day of January, 1859.

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96. And SAMUEL CANNING and HENRY CLIFFORD, both of Leadenhall Street, in the city of London, Engineers, have given the like notice in respect of the invention of "Improvements in machinery for paying out and for recovering or picking up submarine telegraph ropes, cables, or chains."

97. And THOMAS ELWELL, of Paris, in the empire of France, Engineer, has given the like notice in respect of the invention of "Improvements in governors for steam engines and other motive power engines."

98. And WILLIAM MCNAUGHT, of Manchester, in the county of Lancaster, Engineer, and WILLIAM MCNAUGHT, of Rochdale, in the county of Lancaster, Engineer, have given the like notice in respect of the invention of "Improvements in steam engines and in apparatus connected therewith."

103. And CHARLES BESLAY, of 52, Rue Saint Sebastien, Paris, in the empire of France, Engineer, has given the like notice in respect of the invention of "Improvements in coating or covering iron or steel with tin, zinc, or lead, or alloys of those metals by electrial deposit."

As set forth in their respective petitions, all recorded in the said office on the 12th day of January, 1859.

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108. And HENRY CRITCHLEY, of Bury, in the county of Lancaster, Engineer, and SOLOMON ELSTON, of the same place, Engineer, have given the like notice in respect of the invention of "Certain improvements in pistons for steam engines or other purposes."

112. And DANIEL LANCASTER BANKS, of Kennington, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "A method of constructing a travelling suspension rail or roadway, applicable among other uses as a bridge and lifting agent."

118. And THOMAS HERBERT, of the firm of Thomas Herbert and Company, of Nottingham, and EDWARD WHITAKER, also of Nottingham, have given the like notice in respect of the invention of "Improvements in the manufacture of warp lace."

As set forth in their respective petitions, all recorded in the said office on the 13th day of January, 1859.

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129. And WILLIAM HENRY EDWARD MCKNIGHT, of Lydiard House, near Swindon, co. Wilts, has given the like notice in respect of the invention of "An upright-celled boiler, applicable to all heating purposes by hot-water or other fluid."

131. And DANIEL LANCASTER BANKS, of 3, Kennington Row, Kennington Park, in the county of of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in the method of constructing a travelling suspension rail or roadway to be used for the cultivation of land."

As set forth in their respective petitions, both recorded in the said office on the 15th day of January, 1859.

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139. And PIERRE AMABLE DE SAINT SIMON SICARD, of Paris, in the French empire, Chemist, has given the like notice in respect of the invention of "An improved process and apparatus for converting cast iron into steel."

142. And EDWARD BROOKS, of 43, Edward Street, Dorset Square, in the county of Middlesex, Locksmith, has given the like notice in respect of the invention of "Improvements in locks."

As set forth in their respective petitions, both recorded in the said office on the 17th day of January, 1859.

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167. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Certain improvements in the manufacture or production of lasts, boot-trees, and clogs, and in the machinery and apparatus employed in the production of such articles."—A communication from Jules Mathieu, residing at Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 19th day of January, 1859.

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182. And HENRY SAGAR, of Broughton, near the city of Manchester, in the county of Lancaster, Bleacher and Dyer, and ALEXANDER SCHULTZ, of Paris, in the kingdom of France, and of the city of Manchester aforesaid, Chemist, have given the like notice in respect of the invention of "Improvements in producing pink shades on cotton fabrics or yarns."

As set forth in their petition, recorded in the said office on the 20th day of January, 1859.

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183. And THOMAS RICHARDSON, of 20, New Bridge Street, Newcastle-on-Tyne, has given the like notice in respect of the invention of "Improvements in the manufacture of manure."

As set forth in his petition, recorded in the said office on the 21st day of January, 1859.

201. And David Moseley, of the Chapel Field Works, Ardwick, in the city of Manchester, Manufacturer of India-rubber and Gutta-percha, has given the like notice in respect of the invention of "Improvements in the manufacture of india-rubber thread."

As set forth in his petition, recorded in the said office on the 22nd day of January, 1859.

217. And Arthur Warner, of 31, Threadneedle Street, in the city of London, and William Tooth, of Sumner Street, Southwark, in the county of Surrey, have given the like notice in respect of the invention of "Improvements in the manufacture of iron and gases for such and other uses."

As set forth in their petition, recorded in the said office on the 24th day of January, 1859.

251. And Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in the manufacture of biscuits·"—A communication from Messrs. Pascal and Sirben, residing at Toulouse, département de la Haute Garonne, in the empire of France.

As set forth in his petition, recorded in the said office on the 27th day of January, 1859.

262. And Henry Watson, of High Bridge Works, Newcastle-upon-Tyne, has given the like notice in respect of the invention of "Improvements in the manufacture of knotter plates used in the manufacture of paper."

As set forth in his petition, recorded in the said office on the 28th day of January, 1859.

265. And Josiah Lane, of West Bromwich, in the county of Stafford, Machinist, has given the like notice in respect of the invention of "New or improved machinery for the manufacture of screws and for tapping nuts for screws."

269. And Henry Grissell, of Regent's Canal Iron Works, Eagle Wharf Road, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for moving ships and vessels on slips or inclined ways."

As set forth in their respective petitions, both recorded in the said office on the 29th day of January, 1859.

367. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in fire arms."—A communication from William H. Bell, residing at the city and county of Washington, in the district of Columbia.

As set forth in his petition, recorded in the said office on the 9th day of February, 1859.

432. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improvement in the construction of brushes."—A communication from abroad by Ira W. Shaler, of United States of America.

As set forth in his petition, recorded in the said office on the 16th day of February, 1859.

757. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in fire-arms."—A communication from abroad, by Francis H. Bell, of the city and county of Washington, in the district of Columbia, in the United States of America.

As set forth in his petition, recorded in the said office on the 25th day of March, 1859.

845. And David Blair White, of Newcastle-on-Tyne, M.D., has given the like notice in respect of the invention of "Improvements in arranging ships and other pumps."

As set forth in his petition, recorded in the said office on the 4th day of April, 1859.

901. And James Anderson, of Liverpool, Lancashire, has given the like notice in respect of the invention of "Improvements in the construction of the furnaces of bakers' ovens for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces."

As set forth in his petition, recorded in the said office on the 11th day of April, 1859.

970. And George Porter, of the city of London, Smith and Gas Fitter, has given the like notice in respect of the invention of "Improvements in valves or cocks."

As set forth in his petition, recorded in the said office on the 18th day of April, 1859.

996. And Henry Rawson, of Leicester, has given the like notice in respect of the invention of "Improvements in machinery for combing wool and other fibres."

As set forth in his petition, recorded in the said office on the 20th day of April, 1859.

1003. And John Alison, of Hainault Forest, in the county of Essex, Gentleman, has given the like notice in respect of the invention of "An improved instrument for extirpating thistles, docks, and other deep rooted weeds."

As set forth in his petition, recorded in the said office on the 21st day of April, 1859.

1016. And John Armstrong, of Sunderland, in the county of Durham, Timber Merchant, has given the like notice in respect of the invention of "Improvements in drying and preserving timber."

1018. And John Angus, of Glasgow, in the county of Lanark, North Britain, Saddlers' Ironmonger, has given the like notice in respect of the invention of "Improvements in saddles."

As set forth in their respective petitions, both recorded in the said office on the 23rd day of April, 1859.

1040. And William Warne, John Americus Fanshawe, James Archibald Jaques, and Thomas Galpin, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, have given the like notice in respect of the invention of "Improved compounds applicable for packing the joints of steam or other pipes, which

compounds are also applicable for packing or lining parts of machinery in general, or parts of ships, bridges, tanks, or railways."

As set forth in their petition, recorded in the said office on the 25th day of April, 1859.

1042. And THOMAS HOLT, of Lower Place, in the parish of Rochdale and county of Lancaster, Engineer, and JOHN BROWN, of Oxford Street, Wellfield, in the same parish and county, Agent, have given the like notice in respect of the invention of "Improvements in apparatus, or an improved apparatus, for heating water for the supply of steam-boilers, which improvements or apparatus are also applicable in some cases for the prevention of incrustation in steam boilers."

As set forth in their petition, recorded in the said office on the 26th day of April, 1859.

1058. And ROBERT JAMES LAING, of the Independent Gas Works, Haggerstone, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in wet gas meters."

As set forth in his petition, recorded in the said office on the 27th day of April, 1859.

1074. And ARTHUR BOYLE, of Birmingham, in the county of Warwick, Tool Maker, has given the like notice in respect of the invention of "Improvements in the manufacture of certain parts of umbrellas and parasols."

As set forth in his petition, recorded in the said office on the 28th day of April, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

14th May, 1859.

2564. WILLIAM GEORGE ARMSTRONG, of the borough and county of Newcastle-upon-Tyne, Civil Engineer, for an invention of "Improvements in the manufacture of ordnance."—Dated 15th November, 1858.

2583. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "A flat clothes smoothing iron with moveable handles."—A communication from Francisque Rousserie, residing at Marseilles, in the empire of France.—Dated 17th November, 1858.

2584. JOSEPH HENRY TUCK, of Great George Street, Westminster, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the mode of laying and securing telegraphic cables, and in apparatus for the same, and for carrying on other operations under water."—Dated 17th November, 1858.

2586. EDWARD WELCH, of 63, St. John's Square, Clerkenwell, Tobacco Manufacturer, for an invention of "Improvements in the manufacture of tobacco, and in apparatus therefor."—Dated 17th November, 1858.

2589. EDMUND MELLOR, of Rochdale, in the county of Lancaster, Engineer, for an invention of "Improvements in mules and other machinery for spinning cotton and other fibrous substances, whereby the cop will be built much firmer, and prevent snarles in the yarn."—Dated 17th November, 1858.

2591. JOHN BRENNAND, of Manchester, in the county of Lancaster, Calico Printer, for an invention of "An improvement in ploughs, and in other agricultural implements, and in the method of driving the same."—Dated 17th November, 1858.

2592. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in apparatus for the manufacture of lace and net."—A communication from Messieurs A. Grivel, junr., and I. F. V. Mouilleron, both residing in Paris.—Dated 17th November, 1858.

2598. SAMUEL RILEY, of Oldham, in the county of Lancaster, Stamp Distributor and Agent, for an invention of "Improvements in the manufacture of hats, bonnets, and caps."—Dated 18th November, 1858.

2601. Sir CHARLES TILSTON BRIGHT, of Harrow Weald, in the county of Middlesex, for an invention of "Improvements in insulators, and an improved mode of connecting insulators to posts and other supports."—Dated 18th November, 1858.

2603. HENRY STOTT, of Greetland, near Halifax, in the county of York, Cotton Warp Manufacturer, for an invention of "Improvements in warping mills, or apparatus connected therewith."—Dated 18th November, 1858.

2608. ELISHA THOMAS ARCHER, of Bridgefield House, Wandsworth, in the county of Surrey, Paper Manufacturer, for an invention of "Improvements in hat ventilators, and for appliances connected therewith."—Dated 18th November, 1858.

2612. WILLIAM STEPHENS HAYWARD, of Wittenham House, Abingdon, in the county of Berkshire, Gentleman, for an invention of "Improvements in the manufacture of a glutinous and viscous substance or dextrine, to be used in the manufacture of paper, and in dressing textile fabrics, by which greater tenaciousness, smoothness of surface, and body is obtained."—Dated 19th November, 1858.

2616. WALTER HANCOCK, of Upper Chadwell Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of electric telegraph wires and cables."—Dated 19th November, 1858.

2618. HENRY HENSON HENSON, of 38, Parliament Street, in the city of Westminster, for an invention of "Improvements in waterproofing fabrics or materials."—Dated 19th November, 1858.

2619. William Ramscar and John Gray Scott, of the city of Manchester, in the county of Lancaster, for an invention of "Improvements in fire-arms."—Dated 19th November, 1858.

2620. Edmund Alfred Pontifex, of the firm of Pontifex and Wood, of Shoe Lane, in the city of London, Engineers and Coppersmiths, for an invention of "Improvements in external surface condensers."—Dated 19th November, 1858.

2621. Henry Bailey, of 35, Golden Square, in the county of Middlesex, Warehouseman, for an invention of "Improvements in heating razors."—Dated 19th November, 1858.

2622. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in purifying natural phosphates of lime."—A communication from Emile Constant Martin, residing at Paris, in the empire of France, formerly Banker. —Dated 19th November, 1858.

2627. Arthur James Thorman, of 8, Lime Street, in the city of London, Ship Agent, for an invention of "Improvements in chain cables and chains."—Dated 19th November, 1858.

2654. Walter Ralston, of the city of Manchester, in the county of Lancaster, Engraver to Calico Printers, for an invention of "Improvements in embossing and finishing woven fabrics, and in the machinery or apparatus employed therein." — Dated 23rd November, 1858.

2655. William Henry Dawes, of Bromford Iron Works, West Bromwich, in the county of Stafford, Iron Master, for an invention of "An improvement in forge hammers, and in the anvils used with forge hammers and squeezers."—Dated 23rd November, 1858.

2730. August Emil Clemens Scheidel, of the firm of Gouda, Scheidel, and Company, of Frankfort on the Main, in Germany, and Watling Street, in the city of London, Manufacturers, for an invention of "Improvements in fastenings for belts, braces, garters, books, porte-monnaies, portfolios, pocketbooks; invoice, writing, and cigar cases, reticules, bags, and other similar articles or purposes."—A communication from P. F. Gouda, a Foreigner residing abroad.—Dated 30th November, 1858.

2764. George Edward Noone, of No. 28, Hodson St., Francis St., Newington Butts, in the county of Surry, Engineer, for an invention of "Certain improvements in machinery for generating gas from coal."—Dated 3rd December, 1858.

2773. Lawrence Wood Fletcher, of Bleaklow, near Bury, in the county of Lancaster, Spinner and Manufacturer, for an invention of "Improvements in the construction of electric telegraph cables."—Dated 4th December, 1858.

2944. Edward Fellows, of Canterbury, in the county of Kent, Clerk, for an invention of "An improved vent peg." — Dated 24th December, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 14th May, 1859, inclusive.*)

12th May.

1175. Richard Knight, of Foster Lane, in the city of London, for an invention of "Improvements in apparatus for aërating liquids."—Dated 17th May, 1856.

13th May.

1138. Uriah Scott, of Camden Town, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in public carriages and various parts of the same, which parts may be used separately and applied to vehicles of any description."—Dated 14th May, 1856.

1150. James Leck, of Glasgow, in the county of Lanark, North Britain, Bleacher, and Alexander Miller, of the same place, Singer, for an invention of "Improvements in singeing textile fabrics." —Dated 15th May, 1856.

1152. Hugh Greaves, of New Palace Yard, in the city of Westminster, Civil Engineer, for an invention of "Improvements in the permanent way of railways."—Dated 15th May, 1856.

14th May.

1251. William Hulse, of Birmingham, in the county of Warwick, Smith, for an invention of "An improvement or improvements in metallic and other bedsteads, which improvement or improvements may be applied to other articles of furniture and to framework generally."—Dated 26th May, 1856.

FOREIGN PATENTS.



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1859.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

1783. Joseph Mitchell, represented by Gough, of 238, Rue de Rivoli, Paris, for "Improvements

* For the French Patent Law see No. 228 of this Journal.

in the manufacture of thread of wool and other filamentous substances."—Dated 15th April, 1859. —(English Patent, expiring 8th October, 1872.)

1784. Julien Bouquet Combe, of 23, Rue du Champ de Mars, Paris, for "Improvements in horse-shoes."—Dated 15th April, 1859.

1785. Appolin Nicolas Joseph Marnat, domiciled with Touaillon, of 8, Rue Coquillière, Paris, a Certificate of Addition to his Patent of 20th April, 1858, for "An apparatus for washing and drying corn."—Dated 15th April, 1859.

1786. Frederick Lows, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in disinfecting processes." — Dated 15th April, 1859.

1787. Bernard Aycard, represented by Castelbon, of 15, Passage des Petites-Écuries, Paris, a Certificate of Addition to his Patent of 17th March, 1858, for "An improved plough."—Dated 15th April, 1859.

1788. Augustin Jacques Rouault, of 325, Rue St. Martin, Paris, for "Improvements in trusses." —Dated 15th April, 1859.

1789. Albert François Delaunoy, of 13, Boulevart d'Arceuil, Montrouge, a Certificate of Addition to his Patent of 8th February, 1858, for "A continuous mode of lubricating fixed axles of wheels."—Dated 15th April, 1859.

1790. Achille Julien Boutolle, of 16, Rue du Faubourg St. Martin, Paris, for "A system of boxes."—Dated 15th April, 1859.

1791. Alexandre Balan, represented by Brandon, of 7, Rue des Moulins, Paris, a Certificate of Addition to his Patent of 10th March, 1858, for "An aerial railroad."—Dated 15th April, 1859.

1792. Antoine and Pour, represented by Brandon, of 7, Rue des Moulins, Paris, for "Improvements in mouth-pieces of wind instruments." — Dated 15th April, 1859.

1793. Joseph Louis Marcelin Sabatier, with Corin, of 4, Rue du Roi de Sicilé, Paris, for "Manufacture of an alimentary substance." — Dated 15th April, 1859.

1794. Jean François Durenne, of 11, Rue des Amandiers Popincourt, Paris, for "Cutting out axle guards and other articles of iron and sheet iron."—Dated 15th April, 1859.

1795. Meynier and Le Bleu, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in fixed and moveable steam generators."—Dated 15th April, 1859.

1796. Guillaume Sauvage, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of elastic carpet."—Dated 15th April, 1859.

1797. Pierre Hippolyte Gustave Bérard, of 323, Rue St. Denis, Paris, for "Rendering skins, and leather impervious."—Dated 16th April, 1859.

1798. Jean Charles Meunier, of 56, Rue Lafayette, Paris, a Certificate of Addition to his Patent of 19th April, 1858, for "A system of propulsion applicable to vessels with a variable line of floating."—Dated 16th April, 1859.

1799. François Herbepin, of 52, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of cocks for water and other pipes." —Dated 16th April, 1859.

1800. Jean François Margué, of 28, Rue des Moinceaux, Paris, for "A kind of half-boots, called 'gaiter half-boots.' "—Dated 16th April, 1859.

1801. Louis Jules Damote, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A machine for cutting the edges and fore edges of books."— Dated 16th April, 1859.

1802. Alexandre Louis Joseph d'Adhemar, with Delaire, of 6, Rue Blanche, Paris, for "Preserving, fire-proofing, and colouring wood."— Dated 16th April, 1859.

1803. Mrs. Francfort and Hesse, the former of 19, Rue de Cléry, the latter of 243, Rue St. Denis, Paris, for "Clasps for fastening."—Dated 16th April, 1859.

1804. Jean Victor Gallien, of 13, Grande Rue St. Mandé, Paris, for "A machine for the manufacture of type."—Dated 16th April, 1859.

1805. Robert Romaine, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction and working of agricultural steam engines, and other locomotive engines."— Dated 16th April, 1859.—(English Patent, 25th September, 1872.)

1806. John Kent, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An improved machine for making knittings or looped fabrics."— Dated 16th April, 1859.

1807. Antoine Charles Coulmont, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of finished and ornamental onyx."—Dated 16th April, 1859.

1808. Mazeline and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 9th November, 1857, for "A peculiar system of steam dredging machines." —Dated 16th April, 1859.

1809. Claude Paulvé, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in crushing-mills."—Dated 16th April, 1859.

1810. Louis Lambert Auguste Aubenas, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Vegetable tooth powder."—Dated 16th April, 1859.

1811. Louis François Clément Breguet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to his Patent of 31st October, 1857, for "Improvements in electric clocks, &c."—Dated 16th April, 1859.

1812. Edmond Corne, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 9th November, 1858, for "Inodorous manure of cesspools."— Dated 16th April, 1859.

1813. Potalier and Leclercq, of 7, Rue de Vendôme, Paris, for "A kind of nosegay holder."— Dated 16th April, 1859.

1814. Louis Alexandre Charles Bertrand, of 35, Rue Ste. Croix de la Bretonnerie, Paris, for "Improvements in gold jewellery."—Dated 18th April, 1859.

1815. Edouard Guérin, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, a

Certificate of Addition to his Patent of 30th April, 1856, for "A self-acting apparatus for working railway breaks."—Dated 18th April, 1859.

1816. Eugène Gonou, of 109, Rue du Cherche Midi, Paris, for "An hydraulic clock, called 'gonometer.'"—Dated 18th April, 1859.

1817. Dennery and Bigot, the former of 25, Rue Corbeau, the latter of 16, Rue Folie Méricourt, for "Gilding and painting marble."—Dated 18th April, 1859.

1818. Louis Auger, represented by Barrault, of 33, Rue St. Martin, Paris, a Certificate of Addition to his Patent of 1st April, 1859, for "Improvements in tobacco pouches, &c."—Dated 18th April, 1859.

1819. Auguste Pellet, represented by Barrault, of 33, Rue St. Martin, Paris, a Certificate of Addition to his Patent of 18th February, 1858, for "Improvements in illustrating American leather, cloth, &c."—Dated 18th April, 1859.

1820. Pierre Aléxandre Cauzard, of 18, Rue de Beaume, Paris, for "A threefold bijou-seal."—Dated 18th April, 1859.

1821. Jean Marie Ciroux, represented by Fringant, of 10, Rue de Provence, Paris, for "A kind of glass shade applicable to lamps, gas-burners, light-houses, and railway-signals."—Dated 18th April, 1859.

1822. André Félix Vanhulst, represented by Fringant, of 10, Rue de Provence, Paris, for "A mechanical malt-kiln."—Dated 18th April, 1859.

1823. Félix Alexis Fulgence Leclerc, of 90, Rue du Faubourg du Temple, Paris, for "Chemical processes applicable to black, gilt, and other copper."—Dated 18th April, 1859.

1824. Auguste Blanche, of Puteaux, a Certificate of Addition to his Patent of 20th April, 1858, for "An apparatus for facilitating and accelerating hand impressions on designs on fabrics and paper."—Dated 18th April, 1859.

1825. Joseph Straub, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A double-action kneading machine."—Dated 18th April, 1859.

1826. Meynier and Le Bleu, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An apparatus for washing all kinds of coal."—Dated 18th April, 1859.

1827. Antoine Vidal, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A washing apparatus."—Dated 18th April, 1859.

1828. Zéphérin Gaspard Alexandre Natan Pétrone Orioli, of 3, Rue du Pont-de-Lodi, Paris, for "A re-agent for bleaching, dyeing, disinfecting, and preserving organic substances."—Dated 18th April, 1859.

1829. Alexandre Ernest Crosnier, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "An apparatus for lighting matches."—Dated 18th April, 1859.

1830. Joseph Sharp Bailey, represented by Gardissal, of 29, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 20th July, 1858, for "Improvements in machines for combing wool, &c."—Dated 18th April, 1859.

1831. Jean Louis Pottet, of 3, Rue du Luxembourg, Paris, a Certificate of Addition to his Patent of 26th February, 1855, for "Improvements in fire-arms."—Dated 29th April, 1859.

1832. Carmien and Masson, of 28, Rue du Chateau d'Eau, Paris, for "Improvements in carriage axles."—Dated 19th April, 1859.

1833. Auguste Planger, domiciled with Onfroy, of 73, Boulevart d'Italie, for "A mode of finishing canvass for mattresses."—Dated 19th April, 1859.

1834. Marie Louise Party, of 61, Rue de Rivoli, Paris, for "Imitation of gold and silver embroideries, with various applications."—Dated 19th April, 1859.

1835. Eugène Brisset, of 13, Rue des Martyrs, Paris, for "Arrangements in frames for printing chromo-lithographs."—Dated 19th April, 1859.

1836. Jean Baptiste Turrel, of 110, Rue Montmartre, Paris, a Certificate of Addition to his Patent, of 11th December, 1856, for "An apparatus, called 'frame for raising blonds and other tissues.'"—Dated 19th April, 1859.

1837. William Barber Buddicorm, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the means of obtaining a steady water-gauge in steam-boilers, being also applicable to other purposes."—Dated 19th April, 1859.—(English Patent, expiring 8th October, 1872.)

1838. Billard and Junior, of 8, Rue Cassette, Paris, for "Improvements in the manufacture of mineral teeth."—Dated 19th April, 1859.

1839. Joseph Binaepfel, represented by Brade, of 22, Rue Ste. Anne, Paris, for "A frame, with compartments for printing fabrics, paper hangings, &c."—Dated 19th April, 1859.

1840. Ira Dimock, represented by Gard, for "A machine for separating silk and other thread according to its size."—Dated 19th April, 1859.

1841. Sébastien Marchal, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in bezels for precious stones, and in their manufacture."—Dated 19th April, 1859.

1842. Alphonse Caron, of 20, Passage de l'Opéra, Paris, for "A system of fire-arms."—Dated 19th April, 1859.

1843. Bernard Bienfait, of 1, Rue Bourbon Villeneuve, Paris, a Certificate of Addition to his Patent of 1st December, 1858, for "A kind of legs of boots and half-boots."—Dated 19th April, 1859.

1844. Amédée Charles Herbet, of 8, Rue Ste Foix, Paris, for "Improved means and processes for goffering paper, pasteboard, and tissues, one side of which has been rendered waterproof."—Dated 20th April, 1859.

1845. François Charles Mongin, of 11, Rue des Juifs, Paris, for "A machine for grinding, rounding, and smoothing immediately all kinds of metal blades."—Dated 20th April, 1859.

1846. Bébiard and Constant, the former of 30, Rue des Fossés St. Bernard, the latter of 81, Rue de Charenton, Paris, for "A railway break."—Dated 20th April, 1859.

1847. François Cauchin, represented by Hallet, of 20, Rue des Amandiers Popincourt, Paris, for "Mounting fecula rasps, together with an apparatus for removing stones."—Dated 20th April, 1859.

1848. François Gouzé, of Blois, département de Loir et Cher, for "A specific for destroying eggs of bugs, and those insects themselves."—Dated 19th April, 1859.

1849. Joseph Antoine Dalmas, of 44, Rue Haute Rotonde, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 20th April, 1858, for "Inodorous basins for closets."—Dated 19th April, 1859.

1850. Paul Minvielle, of 69, Boulevart National, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of 20th January, 1858, for "A steam burning apparatus for utilizing the whole or part of the steam of engines as fuel."—Dated 19th April, 1859.

1851. Félix Bernard, of Bourges, département du Cher, for "A screw jack without rack."—Dated 19th April, 1859.

1852. François Chambre, of Dournazac, département de la Haute Vienne, for "A harvesting machine."—Dated 19th April, 1859.

1853. Chelot-Lehugeur, of Condé sur Moireau, département du Calvados, a Certificate of Addition to his Patent of 4th May, 1858, for "A means of working reels."—Dated 22nd April, 1859.

1854. Charles Constant Noufflard, of Louviers, département de l'Eure, for "A machine for preparing the waste of cloth."—Dated 22nd April, 1859.

1855. Jacques Benet, of Carcassonne, département de l'Aude, for "A system of steam distribution."—Dated 22nd April, 1859.

1856. Joseph Beugniet, with Lormier, of Darnetal, département de la Seine Inférieure, a Certificate of Addition to his Patent of 8th July, 1858, for "Adding a spindle to the pincers of the cheeks of wool cards."—Dated 16th April, 1859.

1857. Théophile Grison, of Déville-les-Rouen, département de la Seine Inférieure, for "Manufacture of orchil carmine."—Dated 16th April, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 26th April, 1859, and each bearing that date.

No. 23,748. R. W. Belson, of Philadelphia, Pa., for an "Improvement in stoves."

"Claim.—What I claim as my improvement in gas-consuming cooking stoves is, the semicircular heater *a* turning upon the hollow axis *b* near to one side of the heater, arranged and combined with the stove in the manner set forth. I claim combining said heater by means of collar e^1 with the air chamber in rear of the fire back, as set forth."

No. 23,749. R. W. Belson, of Philadelphia, Pa., for an "Improvement in stoves."

"Claim.—What I claim as my improvement in gas-consuming cooking stoves is, the arrangement of the air heater *a*, sliding over the oven top and connected with the air passage *b*, in the manner and for the purposes set forth. I claim making the damper *t* and its shaft hollow, in the manner and for the purposes set forth."

No. 23,750. A. S. Blake, of Waterbury, Conn., for an "Improvement in animal traps."

"Having described my invention, I claim and desire to secure by Letters Patent as an improved article of manufacture, a trap, having its spring D attached below the jaws (*c*, *c*,) and the spring brought within or nearly within the diameter of the jaws, as and for the purpose herein shown and described."

No. 23,751. Albert D. Briggs, of Springfield, Mass., for an "Improved screw wrench."

"I make no claim to a nut and screw applied to the movable jaw and main bar of a wrench, and for the purpose of operating or moving the said jaw relatively to the stationary jaw; nor do I claim the invention or improvement which constitutes the subject of the said Patent of the said Merrick; nor do I claim the mode of operating the movable jaw, as shown in the Patent of D. H. Chamberlain, dated March 20, 1849, wherein the tubular handle has a screw formed within it, and rotates on the shank without having any longitudinal motion thereof, and furthermore, such rotary handle is not a separate and distinct thing with reference to the handle G, as herein-before described, as appertaining to my improved wrench. There are important differences between my improvement and the other inventions, as herein-before cited. What, therefore, I claim is, the application of the sleeve G to the nut F and the handle D, so as not only to be capable of turning with and rotating the nut but of moving longitudinally on the handle and with the nut, in accordance with the movement of the movable jaw E on the shank A."

No. 23,752. Geo. A. Brigham, of Marlborough, Mass., for an "Improvement in dishes for waxing thread."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of the guard I, the dripper G, and the guides B, with the two wires D and D^1, to be placed in the dish to hold the thread, in the manner and for the purposes as set forth and described."

No. 23,753. John S. Brown and A. C. Greenleaf, of Indianapolis, Ind., for an "Improvement in sugar mills."

"What we claim, and desire to secure by Letters Patent, the combination and arrangement of the rods K, K, N, N, levers L, L, and bearings J, J, with the set screws O, O, when constructed and operated as and for the purposes set forth."

No. 23,754. Wm. W. Burgoyne, of Washington, D.C., for an "Improvement in steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the employment of the following elements in combination for the accomplishment of the within-described object, to wit; a water jacket D, D^1, open to the atmosphere, enclosing the fire chamber, piston chamber, and smoke stack, a steam evaporating plate B, forming the crown plate of the fire box, a supply pump H, for jetting in the water upon the evaporating plate, and a piston F, which is hung or arranged so as to reciprocate in the path of a circle or in a straight line, when operated upon by the evaporating steam, and in its movement operate the driving shaft of an engine, substantially as and for the purposes set forth. 2nd, the manner herein described of making steam between an intensely heated plate, piston, & the isolated or comparatively cool sides of the piston chamber, substantially as and for the purposes set forth."

No. 23,755. James L. Cathcart, of Georgetown, D.C., for "Improved marine governors for steam engines."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, regulating the supply of steam to marine steam engines, by means of a pendulum, arranged and operated in the manner substan-

tially as herein described, and for the purposes set forth."

No. 23,756. GEO. CHAMBERLIN and W. CHAMBERLIN, of Olean, N. Y., for an "Improvement in harvesting machines."

"Having thus fully described our machine, what we claim as our invention, and desire to secure by Letters Patent, is, the combination and arrangement of the gathering fingers I and knives H, with the reel L, arms M, receiver M^1, and dischargers N, when the several parts are constructed and operated as herein-before specified."

No. 23,757. DAVID CUMMING, of Sorrel Horse, Pa., for an "Improvement in devices for starting railroad cars."

"I do not claim the use of ratchet wheels or pawls; but having described the construction of my improved device, what I claim then as new, and desire to secure by Letters Patent, is, firstly, in combination with the ratchet wheels D, the ratchet bars E, arranged and operating as described, for the purpose set forth. 2nd, so arranging the ratchet bars E, with the sliding frame, to which the power is applied, as that said bars will be capable of slight play, up and down, when in clutch with their wheels, and will run entirely out of contact with said wheels, without the aid of other mechanism, as herein-before described for the purposes set forth."

No. 23,758. M. O. DAVIDSON, of New York, N. Y., for an "Improvement in mode of connecting and supporting railroad rails."

"What I claim, and desire to secure by Letters Patent, is, the use of a rail, having its lower web cut away for about 15 inches at the ends, in combination with the use of a bridge rail splice of a form suitable to receive and support securely the stem of the rail, after its lower web has been cut away, and of a length of about 30 inches, or of the distance from centre to centre of crop ties at the ends of the rails, substantially in the manner and for the purpose herein set forth."

No. 23,759. THOS. F. DE BRULER, of Rockport, Ind., for an "Improvement in cotton press."

"Having described the nature, construction, and operation of my improvements, and desiring to have the same secured by Letters Patent of the United States, what I claim is, the construction and arrangement of the eccentrically operated gear racks h, h, h, h^2, h^2, h^2, with the connecting rod or yoke X, X, Y, Y, Figs. 1 and 2, as described. I also claim the combination of the said devices with the plunger or follower n, n, n, substantially as set forth and described. I also claim the arrangement and combination of the traversing pinion P^2, with the sliding carriage q, q, r, r, S, S, and driving lever or arms W, W, W, W, substantially set forth and described."

No. 23,760. HENRY DUBOSQ, of Philadelphia, Pa., for an "Improved mode of connecting strung pear jewelry.

"Having thus described my improvement in strung pearl jewelry, what I claim therein as new, and desire to secure by Letters Patent, is, connecting the mother-of-pearl or plates of other material used to form the foundation on which the pearls are strung, substantially as described, for the purpose as set forth."

No. 23,761. SELAH DUSTIN, of Detroit, Mich., for "Low-water alarm for steam boilers."

"Having thus fully described the nature and object of my invention, and in what particulars it differs from other contrivances for a similar purpose, what I claim therein as new, and desire to secure by Letters Patent, is, in combination with a steam cylinder located inside of a steam boiler, and having two openings in it, a float and rod carrying or operating two valves, in equilibrio, and having no packed joints, substantially as described, by which means I avoid all undue pressure and friction, and render the float more sensitive to any variation of the height of the water of the water in the boiler, and thus obtain a more reliable indication or signal than by any of the heretofore essayed plans, as set forth."

No. 23,762. WILLARD C. ELLIS, of Springfield, Mass., for an "Improvement in breech-loading fire-arm."

"What I claim therefore, and desire to secure by Letters Patent, is, the cere E, having the double action of firing the pistol and unlocking the hook F; the lever P, in this or any other form, substantially the same, in combination with the lugs on the hammer, as shown in the drawings, or with lugs on the sides of the pistol frame; the cocking of the pistol by the act of breaking down the barrel, in the manner substantially as described."

No. 23,763. BENAIAH FITTS, of Worcester, Mass., for an "Improved method of adjusting the knives of rotary-cutter heads for planing wood."

"What I claim as new, and desire to secure by Letters Patent, is, placing the bolt F, F, Figure 2, or its equivalent, under the knife, to operate or adjust the knives, as set forth and described."

No. 23,764. TRUMAN FREEMAN, jr., of Providence, R. I., for an "Improvement in rotary pumps."

"I do not claim the cylindrical case, the drum moving on the axle, the fixed abutment, the flaps or pistons hinged to the rim of the drum and passing under the abutment, nor the raising of water by a rotary pump. What I claim and desire to secure by Letters Patent, is, the combination of the pistons H with the dogs Q, constructed as described, and arranged for conjoint operation with the cam I and pin K, substantially in the manner specified."

No. 23,765. LOCKWOOD GAIL and JOHN H. GAIL, of West Falls, N. Y., for an "Improved washing machine."

"What we claim as our invention, and desire to secure by Letters Patent, is, the arrangement of the vertical post F and lever E, with the rubber, the whole being constructed, arranged, and operated in the manner substantially as herein described."

No. 23,766. PERRY G. GARDINER, of New York, for an "Improvement in springs for R. R. cars and carriages."

"What I claim as my invention in the foregoing is, the construction of a spring, by confining the ends of the exterior blades in bearings in the ends or heads of a tension bar, without rivets, bolts, hinges, pins, or screws, arranged and operating in the manner and for the purposes described."

No. 23,767. J. W. GOODELL, of East Wallingford, Vt., for an "Improvement in steam-spading machines."

"I am aware that spades have been attached to rotating wheels or cylinders for the purpose of spading or turning the earth, and I do not claim separately such device; but I do claim as new, and desire to secure by Letters Patent, 1st, the wheels H provided with the spades I, in connection with the clearers J, and the rotating plates h, arranged for joint operation, substantially as and for the purpose set forth. 2nd, the attaching of the frame A, which contains the wheels H, to a traction engine by means of a universal joint B, in connection with the gearing E, D, and shaft C, substantially as shown, whereby the frame and the wheels H are allowed to conform to the inequalities of the ground, and the working parts driven direct from the engine."

No. 23,768. EDOUARD GUERIN, of Paris, France, for an "Improvement in self-acting apparatus for working railways brakes."

"Having thus described my invention, I declare that what I claim is the forked piece D, vertical lever L, provided with balance weight P, rod T, and collar M, when arranged substantially as and for the purpose set forth. I reserve to myself the right of varying or changing the forms, dimensions, proportions, of accessories and matters employed."

No. 23,769. STEPHEN R. HUNTER, of Cortlandt, N. Y., for an "Improvement in seeding machines."

"I am aware that rotary harrows have been previously devised and arranged in various ways, and that inclined or oblique teeth k, have been used, I therefore do not claim, irrespective of construction and adaptation, a rotary harrow; but I do claim as new, and desire to secure by Letters Patent, the seed-distributing cylinder K, with adjustable shell L, in combination with two or more seed boxes I, J, and rotary harrow H, substantially as and for the purpose set forth."

No. 23,770. DAVID KNOWLTON, of Camden, Me., for an "Improved steering wheel."

"What I claim as my improvement in the above described hand wheel for steering ships and other purposes, is the

metal rim or circle provided with sockets for the wooden arms or spokes of the wheel, substantially as described."

No. 23,771. WILLIAM E. LOCKWOOD, of Philadelphia, Pa., for an "Improvement in ladies' collar and cuffs."

"I claim, and desire to secure Letters Patent, as a new article of manufacture, embossed cuffs, collars, and other articles of wearing apparel made of a fabric composed of paper and thin muslin, or its equivalent pasted together, as set forth."

No. 23,772. NATHAN B. MARSH, of Cincinnati, O., for an "Improved water meter."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the combination of the two side or end measuring chambers A, A^1, B, B^1, middle piece or stationary cylinders C, C^1, independent reciprocation interior cylinders F, F^1, having septurns g, g^1, adjusting rods E, E^1, and valve box with its valves and passages, the former actuated by the reciprocating interior cylinders essentially as set forth, and the latter forming inlet and outlet communications with and from the measuring chambers, all for operation together substantially as specified. 2nd, supporting the reciprocating interior cylinders F, F^1, on projections formed by the extension inwards of the end flanges b, b, of the stationary cylinders C, C^1, and packing said reciprocating cylinders by the gaskets f, f, which make tight the joints of the stationary cylinders with the measuring chambers; said gaskets being cupped or bent internally as shown and described."

No. 23,773. THOS. J. MAYALL, of Roxbury, Mass., for an "Improvement in treatment of vulcanized rubber."

"Having thus described my improvements I shall state my claim as follows:—I do not claim the use of olive oil, in the compositions of what is commonly called hard rubber, as the oil in that composition is used for a different purpose and has different effects from that which it has in soft or flexible compositions, and is the subject of separate Letters Patent issued to me already, nor do I claim its use in compositions of which emery forms part, as that is a distinct subject, and requires a different treatment and is a distinct invention of my own. I have also invented a peculiar composition for forming gas tubing, in which I use olive oil, and I do not claim that use in this specification; but what I do claim and desire to secure by Letters Patent, is, the use of olive oil, in compositions of gutta percha and india rubber, substantially in the manner and for the purposes above described."

No. 23,774. RICHD. MONTGOMERY, of New York, N.Y., for an "Improved machine for corrugating sheet metal."

"I claim the combination of the bevel wheel h, and bevel pinions i, i, with the sleve n, projections k^1, k, m^1, m, and fork p, with the corrugated rolls H, H^1, and the device for raising and lowering the corrugated roll H, constructed and arranged in the manner above described, whereby a sheet of metal once entered between the rolls can be worked back and forth and gradually and evenly corrugated at one heat and by one attendand, as above set forth."

No. 23,775. HIRAM W. MOORE, of Jersey City, N.J., for an "Improvement in mode of chilling rims for locomotive wheels."

"I claim the hollow chilled rim whose inner and outer rims are not only united at the sides or ends thereof, but also united throughout the annulus by means of braces extending from one to the other for the purpose of strengthening the tread of the wheel and prevent it from cracking or breaking in, substantially as herein described."

No. 23,776. ENOCH E. MULLINER, of New York, N. Y., for an "Improvement in reefing sails."

"I do not claim, broadly, the invention of the bonnet, as that has been applied to jibs and lug sails; but what I claim as my invention, and desire to secure by Letters Patent is, the combination of the divided sail D, E, or F, G, with reef pennants (c), roller clews (b), pulleys (d), and yard or boom C, I, as and for the purposes herein shown and described."

No. 23,777. CHAS. NEAMES, of New Orleans, La., for an "Improvement in fastening slats on sugar cane and bagasse carriers, &c."

"What I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the two jaws H and I, hinged together at L by means of hinge pin L, as and for the purpose shown and described."

No. 23,778. SAML. NICOLSON, of Boston, Mass., for an "Improvement in rails for street railroads."

"I claim making each bearer not only with a grooved upper surface, but with a projection or lip at bottom, for the purpose of producing uniformity of strength in the section of the rail, and of entering a corresponding groove in the stringer C, and supporting the rail and its spikes or bolts against lateral strains."

No. 23,779. SPENCER THOMAS PARMALEE, of Edinburgh, Scotland, for an "Improvement in manufacture of elastic belting."

"What I claim as my invention, and desire to secure by Letters Patent, is, submitting the belting while within the heating or vulcanizing chamber to pressure between the smooth surfaces of an endless metallic band, and one of two revolving metallic cylinders round which the said band passes, substantially as herein set forth."

No. 23,780. A. W. PAYNE, of Morris, N. Y., for an "Improvement in sharpening the calks of horse-shoes."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the rotary burrs or cutters B, B^1, one or more, in connection with the bearing plate or plates C, C^1, placed within a suitable frame or stock A, and arranged substantially as and for the purpose set forth."

No. 23,781. JAMES PUNDERFORD, of New Haven, Conn., for an "Improvement in waterproof leather hose."

"Having thus described my invention, I would have it understood that I am aware that it is not new to apply india rubber to cloth, nor to cement cloth to leather by india-rubber cement, nor is it new to cover with india rubber the interior of a hose made of a woven material; therefore, I do not claim such; but what I do claim as my invention is, the new or improved manufacture of rivetted leather hose, made with a waterproof lining applied to its inner surface, and extending between the joint or lapping where the rivets are inserted, substantially as described."

No. 23,782. DAVID RAMLER, of Union Deposit, Pa., for an "Improvement in machines for raking hay."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the adjustable side bars A, A, provided with the rake heads J, J, and teeth o, in connection with the rake head or shaft B, provided with teeth p, the above parts being arranged and combined substantially as shown and used with or without the dividers b^1, to operate as and for the purpose set forth."

No. 23,783. ISAAC REAMER and HENRY MILLER, of Conrad's Store, Va., for an "Improvement in corn harvesters."

"What we claim as our invention, and desire to secure by Letters Patent, is, 1st, the combination with the vertically adjustable upper guides G, G^1, of the vertically adjustable reel D, for action together, as herein set forth. 2nd, the reel D, constructed with tangentially set tie bars or guides K, K, as described, in combination with a platform on which the stalks fall parallel with the line of travel, substantially as and for the purposes set forth. 3rd, the combination with the frame A, knife C^2, of the under adjustable frame A^1, substantially as and for the purposes set forth. 4th, the manner herein shown and specified of connecting the platform E, with the frame of the machine, for the purpose set forth. 5th, providing the platform E with a slide back extension board n, in the manner and for the purposes set forth. 6th, the arrangement with oblique or diagonal set spring blade or cutter of a fixed obliquely-set carrying wheel C, in the manner and for the purpose set forth."

No. 23,784. JOHN C. REED, of Providence, R. I., for an "Improved stove polish mixer and scraper."

"I do not claim any of the parts of the article when used separately, but I do claim, and desire to secure by Letters Patent, the combination of the receptacle A, scraper B, and mixer (C), when arranged and operated as described."

No. 23,785. JACOB RINEK, of Easton, Pa., for an "Improvement in machines for laying hemp around wire in making rope."

"I lay no claim to perforated plates for guiding the strand and maintaining them apart, nor do I claim any one or more of the above-described parts, separately and independent

of the other; but I claim, and desire to secure by Letters Patent, the revolving yoke E, with its hollow spindle *c*, and one or more rollers *h*, arranged on and turning in the yoke, as set forth, when the said yoke and its appendages are combined with and arranged in respect to the two sets of bobbins *a*, *a*, containing the strands of hemp, the perforated guide plates I and J, and tube *m*, substantially as herein set forth."

No. 23,786. Isaac A. Sergeant, of Springfield, O., for an "Improved spring-bed bottom."

"What I claim as new and desire to secure by Letters Patent, is, 1st, the arrangement of the stretcher frame C, C^1, C^{11}, and rails B and D, secured and supported as described for the purpose set forth. 2nd, the supporting legs or stays F, and racks G, in the described combination with the stretcher frame C, C^1, C^{11}, for the purpose set forth. 3rd, the described arrangement of straps *d*, and knobs *e*, for the purpose explained."

No. 23,787. George Schuh, of Madison, Ind., for a "Machine for addressing newspapers, &c."

"I am aware that there have been previous arrangements for the like purpose of type forms brought under the action of a stamp by means of a slide moving by degrees and operating in connection with a slitted plate for securing to the document the desired impression, and that a traversing bed has been used to bring all the names, numbers, or addresses in the form successively under an aperture in the tympan, and causing the matter placed under the platen to receive the desired impression. Such I do not claim; but what I do claim here is, the combination with the hopper C, which contains the documents to be addressed, of the sliding gate K, provided with a heel or step, and operating to close the hopper discharge, and at intervals to open the same in such manner as to permit of a single document being deposited from the pile in the hopper in front of said heel for after traverse with the gate, substantially as and for the purposes specified. I also claim the combination of the inclined feeding channel E^1, main type channel E, and raised discharge channel *g*. I further claim, in connection with the feed bolt E^{11}, the angle lever *x*, or its equivalent, to aid the type in its course from the feed channel to the main channel of the machine. Likewise, I claim the employment of form boxes H, for use as described, at either end of the machine. Also, the combination with the traversing type or form of a notice bell, or its equivalent, for operation by the type at intervals, as described. Likewise, the combination with the bolster L, operating essentially as described, of the springs S^4, S^4, for relieving the type from the paper, and holding it on the bolster and type shifter G. And lastly, the document discharging fly X^1, when operated by the sliding gate K, essentially as described."

No. 23,788. Patrick Sharkey, of Brownsville, Miss., for an "Improvement in cotton scrapers."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, arranging the scrapers F, G, one forward of the other on guide blocks or runners D, E, of different lengths substantially as and for the purposes set forth. 2nd, the arrangement of a sleigh-runner shaped gauge with the short scraper F, substantially as and for the purposes set forth."

No. 23,789. Thomas Shaw, of Philadelphia, Pa., for an "Improvement in sewing machines."

"I do not claim broadly a needle bar to which a vertical as well as a horizontal motion is imparted by cams or their equivalents; but I claim and desire to secure by Letters Patent, the feed bar Q, attached to and carried solely by the by the spring *s*, operated vertically by the combined action of the rods F, F, and the aforesaid spring, and horizontally by the combined action of the independently adjustable screws *i*, and the same spring *s*, and regulated by the screw R, on the stationary bracket *g*, the whole of the above parts being arranged substantially as set forth."

No. 23,790. Thos. Silver, of Philadelphia, Pa., for an "Improvement in governor for regulating the speed of steam engines."—Patented in England, 23rd May, 1857.

"Having now fully described my invention, what I claim in its arrangements as a novelty, and desire to secure by Letters Patent, is, the combination of a spring with a momentum wheel, and adjustable speed limiting vanes, the whole constructed with the combination of the peculiarly adjusted sectors, pinion, and links as fully described and set forth."

No. 23,791. Walter C. Smith, of Georgetown, D. C., for an "Improved detective register for doors of railroad cars."

"What I claim as my invention, is, the detection of the opening and closing of car doors by means of the latch or key in combination with the two index or registering wheels operated substantially as herein set forth."

No. 23,792. Joseph E. Stanwood, of Malden, Mass., for an "Improved gas pipe cutter."

"I do not claim a pipe or rod cutter having a chisel with a screw or means of forcing such chisel toward the claw or pipe rest; but what I do claim is, my improved pipe or round rod cutter as provided with a rotary cutting wheel, to operate in conjunction with the claw or pipe rest as specified. I also claim the arrangement of the cutting wheel carrier in a recess C (formed in the claw block B), in combination with the arrangement of the adjustable screws *d*, *e*, and handle rod F, with respect to the said recess and the cutter wheel carrier, the whole being as specified."

No. 23,793. Frank Steinhart, of Dansville, N. Y., for an "Improvement in spring car couplings."

"Having thus described my improvements in car couplings what I claim therein as new, and desire to secure by Letters Patent, is, first, the combination of the radial fenders, or their equivalent, arranged as described, with the jaws of the nippers, for the purpose set forth. Second, constructing the bolt head with an open back and also with a longitudinal recess in its back, for the purpose described."

No. 23,794. Enos Stevens, of Barnet, Vt., for an "Improvement in machinery for accumulating and transmitting power."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the endless chain E, C, forming the pendant loops E and C, supported by the wheels M and W, in combination with the weight C, W, T, suspended from a pulley supported by the loop E, and the weight or guide pulley G, P, and cord R, the whole arranged and operated, substantially as described."

No. 23,795. Francis Stock and John Stock, of San Jose, Cal., for an "Improvement in pump boxes."

"We do not claim the valve F, nor the valve C; nor do we claim any parts connected with the lower B, as novel; but having described our invention, what we do claim as new, and desire to secure by Letters Patent, is, the arrangement of the parts *j*, *k*, *l*, of the box D, in connection with the bolts or rods *p*, *p*, and valve E, substantially as herein shown and described."

No. 23,796. Thomas Stubblefield, of Columbus, Geo., assignor to himself and Peter Naylor, of New York City, for an "Improvement in stop cocks."

"Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is, the combination of the lever D, cap I, valve stem *a*, and spring *c*, when the cap I is provided with a semicircular opening into which fits the semicircular end H of lever D, for the purpose of forming a tight joint without packing, substantially as is herein described."

No. 23,797. James A. Faylor, of Cowlesville, N. Y., for an "Improved carpet fastener."

"What I claim as new, and desire to secure by Letters Patent, as a new and improved article of manufacture, is, the hooks *a* and pins *b*, arranged and operating in combination with the carpet, as described."

No. 23,798. George C. Taft, of Worcester, Mass., for an "Improved wrench."

"Having described my improved double-acting screw and rack wrench, what I claim therein as new, and desire to secure by Letters Patent, is, the screw-threaded rosette *a*, with its hole *o*, in combination with the stationary guide rod *b*, rack *n*, traversing male screw *f*, and sliding jaw *g*, *h*, with its female screw *p*, substantially as and for the purposes set forth."

No. 23,799. George Todd, of St. Louis, Mo., for an "Improvement in grinding mills."

"Having thus fully described my improved grinding mill, what I claim as my invention, and desire to secure by Letters Patent, is, securing the ears of the rim (*f*) of the stationary stone (A) between double series of upper an lower springs *m*, *m*, and (*k*, *k*,) whose elasticity is governed and controlled by the series of adjusting screws *n*, *n*, substantially in the manner and for the purpose herein set forth."

No. 23,800. Alfred R. Turner, of Malden, Mass., for an "Improvement in penholders."

"Having thus described my improvements, I shall state my claim as follows:—What I claim as my invention, and desire to have secured to me by Letters Patent, is, a penholder, constructed with the cover *b*, turning on a pivot or fulcrum, and acted upon by the bent spring *c*, substantially as described. And I also claim in combination with the above the sliding piece *f*, as set forth."

No. 23,801. John B. Wortendyke, of Godwinsville, N. J., for an "Improvement in lamp wicks."

"Having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a lamp wick, composed of strands that have received a preparatory twist in one direction, are then spun in the contrary direction with and coiled upon a thread (*c*), and are then twisted together, all as herein shown and described."

No. 23,802. John Wood, of Brooklyn, N. Y., for an "Improvement in machines for cutting and folding wadding and paper."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, first, the receiving box V, provided with two compartments and fly boards d^1, connected with racks c^1, and with ratchets *h*, actuated by the arms k^1, and cam J, in connection with the wheel X, and adjustable pinion O++, substantially as and for the purpose set forth. Second, operating the knife gate D and plate P, by means of the lever O, provided with the sector racks *j*, which gear into the racks *k* of gate D and bar *l*, so that the knife and plate will be actuated or made to perform their respective functions alternately, as described. Third, the arrangement of gearing G, I, K, R, as shown and described, when used in connection with the lever O, for the purpose of operating the several parts automatically, as and for the purpose set forth."

No. 23,803. Abraham Yost, of New York, N. Y., for an "Improved refrigerator."

"What I claim, and desire to secure by Letters Patent, is, the combination and arrangement of compartments D and K, dampers *b* and J, and escape tubes L, substantially as and for the purposes herein above set forth."

No. 23,804. John Young, of West Galway, N. Y., for an "Improvement in the construction of railroads."

"I would remark, that I do not claim placing a rail upon a saddle, as this device is well known, many examples of which may be referred to; and I therefore disclaim such combination other than my own; but I claim constructing a rail and saddle as described, whereby I am enabled to securely hold and render solid the joints or ends of rails during the passage of cars, substantially as described. I also claim combining with said rail and saddle, as described, the straining arch E, key D, and strip F, for the purpose set forth and specified."

No. 23,805. Francis Baschnagel, of Wenham, Mass., assignor to the Beverly Rubber Company, of Beverly, Mass., for an "Improvement in restoring waste rubber."

"What I claim now as my invention, is, the above-described process, to wit; restoring waste vulcanized rubber, by reducing the same by grinding or otherwise to a finely divided state, and then submitting the same in a suitable vessel to the direct action of steam."

No. 23,806. K. Borren, of New York, N. Y., assignor to Peter Schneider, of same place, for an "Improved sofa bedstead."

"What I claim as new, and desire to secure by Letters Patent is, 1st, constructing a sofa bedstead with an interior drawer, which may be pulled and united with the sofa seat, so as to form one bed or couch, by the application of ways or grooves *a* to the inside of the sofa frame, substantially as described. 2nd, the horizontal rods F of the sofa frame, in combination with the stay F of the interior drawer, for the purpose of more securely guiding the said drawer, substantially as described. 3rd, providing the draw with two back pins *o*, *o*, in the manner and for the purpose substantially as described."

No. 23,807. Harry H. Evarts, of Chicago, Ill., assignor to himself and Phineas E. Merrihew, of same place, for an "Improvement in steam valves."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the ports, cavities, and passages in the valve, substantially as herein described, in combination with a corresponding arrangement of the ports in the seat, whereby a single valve is made to perform its functions for the two cylinders of the engine, as herein set forth."

No. 23,808. Levi T. Howell, of Burlington, N. J., assignor to himself and De Witt C. Taylor, of Philadelphia, Pa., for an "Improved hinge."

"I do not desire to confine myself to any particular form of hinge, or to any particular mode of securing the same, nor do I claim broadly a hinge with notches and projections to render it self-locking, but I claim and desire to secure by Letters Patent, the projection *i* on one half of the hinge, said projection being inclined on one side and abrupt on the other, in combination with the spring bolt D and its notch *e*, when the said bolt is so fitted to the other half of the hinge, as to have a limited vertical but no turning movement therein, and when the whole of the parts are arranged for joint action, substantially as and for the purpose herein set forth."

No. 23,809. Clark Lane, of Hamilton, Ohio, assignor to Owens, Lane, Dyer, and Co., of said Hamilton, for an "Improvement in horse powers."

"The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the construction and adaptation of the stay rods F, G, with the hooked stand plates I, I, and racks D, E, on the sweep C, or their equivalents, in combination, as set forth."

No. 23,810. Ralph S. Mershon, of Philadelphia, Pa., assignor to himself and John M. Harper, of said Philadelphia, for an "Improved regulator for timekeepers."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, the application to watches, and such timepieces as have their vibrations governed by a balance and hair spring, of a compound regulator, composed of two or more movable segments, constructed and operating substantially as described. I also claim the combination of said compound regulator with a greater or lesser scale, the former fixed and the latter movable, but having a fixed indicator, and capable of being operated either in concert with or independently of each other, substantially as herein described."

No. 23,811. James E. Quinn, of Chicago, Ill., assignor to John M. Johnston, of said Chicago, for an "Improved joint for gas and water pipes."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the rings *e* and *f* on pipe *d*, in combination with the opening *c*, in the socket *b*, forming the cement chamber *h*, *h*, for the purpose of joining pipes air and water tight by using cements in place of lead commonly used, the whole arranged substantially as above set forth."

No. 23,812. George W. Richardson, of Grayville, Ill., assignor to himself and John P. Williams, of White Co., Ill., for an "Improvement in seeding machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the cam wheel H and lever F, with the seed slide X, and vibratory bar E of the Harrow D, D, when the whole are constructed for operation conjointly, in the manner and for the purpose herein set forth."

No. 23,813. Leonard B. Tinkharn, of Lawrence, Mass., assignor to himself and Charles Ryan, of said Lawrence, for an "Improved bed bottom."

"What I claim as new, and desire to secure by Letters Patent, is, the combination of S-formed springs, arranged so as to receive the movable rivet, and retain the slats in place, with bars B, and stirrups *a*, *b*, when the same are arranged substantially for the purposes, and in the manner herein-above specified."

No. 23,814. John L. Nicolai, of Chicago, Ill., assignor to himself, S. E. Knott, and R. F. Farrell, of said Chicago, for an "Improved egg beater."

"What I claim as new, and desire to secure by Letters Patent, is, 1, the within-described beaters C, arranged with diverging fingers F, which are attached to disks E, to operate substantially as and for the purpose set forth. 2, the arrangement of a series of beaters C, constructed as herein described on rotary shafts C, so that the several beaters can be operated substantially as and for the purpose specified."

RE-ISSUES.

THOMAS D. BURRALL, of Geneva, N. Y., for an "Improvement in grain harvesters."—Patented 5th April, 1853.—Re-issued 26th April, 1859.

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, first, the additional apron, to convert the usual rear discharge into a side discharge of the cut grain, substantially as herein described. I also claim the combination of the curved supports, and the adjustable journal box piece, to preserve the relative positions of the cogs in the mitre gearing, and at the same time allow of raising and depressing the driving wheel, substantially as described. I also claim the notches in the back corners of each knife to prevent clogging or lodgment of fine grass in the cavities of the guards; said notches effecting a good purpose and not weakening the cutter, as herein represented."

THOMAS D. BURRALL, of Geneva, N. Y., for an "Improvement in grain harvesters."—Patented 5th April, 1853.—Re-issued 26th April, 1859.

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, the location of the raker's seat with regard to the drive wheel and platform, as described, and for the purpose set forth. I also claim, in combination with a raker's seat located as described, extending of the rear of the platform far enough back to allow the raker from his seat to turn the grain upon the platform and rake it off in an arc of a circle by a circular sweep or quarter turn movement of his rake, substantially as described."

MATTHEW A. CROOKER, of New York, N. Y., for an "Improved arrangement of buckets of paddle-wheels."—Patented 28th October, 1856.—Re-issued 26th April, 1859.

"I claim arranging the floats or buckets of a paddle whee upon its arms or the equivalent thereof, whereby the buckets shall be continuously increasing and diminishing their depth in the water as the said wheel revolves, as and for the purposes herein set forth."

JOHN JAMES GREENOUGH, of New York, N. Y., for "Improvements in machines for pegging boots and shoes."—Patented 17th January, 1854.—Re-issued 4th July, 1854.—Re-reissued 26th April, 1859.

"Having thus fully described my invention or discovery for driving pegs into boots and shoes, what I claim therein as new, and for which I desire to secure Letters Patent, is, driving the pegs into boots and shoes automatically, by means of a peg driver, operated up and down by a positive mechanical movement whether impelled by a cam eccentric or crank, or other equivalent, substantially as and for the purposes specified."

JOHN JAMES GREENOUGH, of New York, N. Y., for an "Improvement in machines for pegging boots and shoes."—Patented 17th January, 1854.—Re-issued 4th July, 1854.—Re-reissued 26th April, 1859.

"Having thus fully described my improvement in feeding forward the soles of shoes and boots to receive the pegs in the act of pegging, what I claim therein, and desire to secure by Letters Patent, is, the moving the sole of the shoe along by means of the awl that forms the hole in which the peg is inserted, in combination with the peg driver, whether the peg driver be or be not employed to perform the additional function of presenting the peg, whereby each hole made by the awl is brought in succession in line for inserting the peg before the awl is withdrawn, as set forth."

JOHN JAMES GREENOUGH, of New York, N. Y., for an "Improvement in machines for pegging boots and shoes."—Patented 17th January, 1854.—Re-issued, 4th July, 1854.—Re-reissued 26th April, 1859.

"Having thus fully described my invention, for which I ask this re-issue, what I claim therein as new, and for which I desire Letters Patent, is, cutting off shoe pegs from a strip of peg wood, or other material, by means of a lateral or side cut, that will cut straight across, substantially as and for the purposes set forth, when combined with suitable ways in which the strip slides, and machinery for driving the pegs as specified. I also claim inclosing the peg by the cutter, until it is driven as specified, by making the cutter, when in position, a part of the guiding tube substantially as set forth. I also claim the combination of the endless feed with a cutter for severing the pegs in a shoe pegging machine, as above specified."

JOHN JAMES GREENOUGH, of New York, N. Y., for an "Improvement in machines for pegging boots and shoes."—Patented 17th January, 1854.—Re-issued 4th July, 1854.—Re-reissued 26th April, 1859.

"What I claim as my invention, and desire to secure by Letters Patent is, connecting the last with a horizontal slide or plate capable of presenting the shoe or boot, substantially as described, so that the shoe or boot attached thereto may be turned and moved in any direction, in a horizontal or inclined course, in combination with a mechanism, substantially, such as described, which tends constantly to force it upward against a rest or guide, but which will permit it to yield downward as described; but this combination I claim only when combined with the pegging mechanism above described, or any equivalent therefor. And I also claim as an automatic means of moving and guiding the last to present it to the pegging apparatus in the required line of pegging, the guide groove and guide, and pinion and curved rack, substantially as described in combination with the mechanism above described, or the equivalent thereof, which permit the last to be moved in any desired direction, as set forth."

JOHN JAMES GREENOUGH, of New York, N. Y., for an "Improvement in machines for pegging boots and shoes."—Patented 17th January, 1854.—Re-issued 4th July, 1854.—Re-reissued 26th April, 1859.

"Having thus fully described my shoe pegging apparatus, what I claim therein as new, and for which I desire to secure in this re-issue of my Letters Patent, is, the combination of the universal movement carriage and lateral awl movement for properly presenting the shoe to receive the pegs in succession, as herein specified. I also claim the combination of the mechanism for the cutting and feeding of the pegs, as herein described, or any equivalent therefor, with the automatic peg driver, as described. I also claim the combination of the following elements, or their mechanical equivalents, namely, the peg former, the peg-feeder, the peg-driver, and the mechanism for moving the shoe, herein described, thus, constituting an automatic machine for pegging shoes, as set forth."

JOHN JAMES GREENOUGH, of New York, N. Y., for an "Improvement in machines for pegging boots and shoes."—Patented 17th January, 1854.—Re-issued 26th April, 1854.—Re-reissued 26th April, 1859.

"Having thus fully described my improvement in the pegging of soles of boots and shoes with metal, what I claim therein, and desire to secure by Letters Patent, is, the pegging of boots and shoes with nails or pegs of drawn wire, substantially as above described. I also claim driving the pegs by means of the cutting nippers, said nippers cutting off the peg after it is driven substantially as specified."

ROCHUS HEINISCH, of Newark, N. J., for an "Improvement in tailors' shears."—Patented 13th July, 1858.—Re-issued 26th April, 1859.

"What I claim as new, and desire to secure by Letters Patent of the United States, is, the oblique rectilinear slot C, in the elongated shank of the lower blade A, in combination with the fulcrum D and a lever connecting the two portions of the shears behind the fulcrum, the whole constructed and operating substantially as and for the purposes set forth."

NORTH AMERICAN PAPER BAG AND ENVELOPE MANUFACTURING COMPANY, of Philadelphia, Pa., assignees of John A. Smith, Clinton, Mass., and S. E. Pettee, Foxboro', Mass., for a "Machine for making paper bags and envelopes."—Patented 1st May, 1855.—Re-issued 26th April, 1859.

"First, we claim the bar K, to relieve the end of the under sheet of the weight of the pile, partially or wholly. Second, the friction bar I, to separate the under sheet. Third, the guide bar L in connection with bar I, to hold the sheet in place for the jaws. Fourth, the lifter M, to relieve the sheet from the weight of the pile. Fifth, the feeding from the bottom of the pile. Sixth, the combination of the weight bar, friction bar, guide bar, and lifter, constituting a feeding

apparatus. Seventh, the jaws to place the paper in position. Eighth, in combination with machinery for making bags from paper of any size, we claim a former of the shape and dimensions required by the nature of the work to be done, over or around which the paper is to be folded, for the purpose of producing the bag or bags, substantially as described. We wish it understood, however, that we distinctly disclaim the use of a series of moulds in a machine for making paper boxes, such a series having been used in the paper box machine of R. L. Hawes, patented 16th January, 1855; nor do we claim moulds placed at the extremities of the arms of a wheel, and used in the manufacture of paper boxes, such an arrangement having been employed in the box machine of Louis Koch, patented 13th March, 1855. Ninth, the pasters and side folders. Tenth, the combination of the table, the bar B, the side folders and pasters, all constructed as herein set forth, or any other substantially the same."

EMELINE M. STEDMAN, of Vienna, N.J., executrix of Geo. W. Stedman, deceased, for an "Improvement in sewing machines."—Patented 12th December, 1854.—Re-issued 26th April, 1859.

"Having thus described these improvements in the sewing machines, what I claim as the invention of Geo. W. Stedman, deceased, and desire to secure by Letters Patent, is, first, the tube herein described, receiving thread in the manner specified, and acting in combination with the needle, so that each forms a series of loops, each of which loops receives one, and is received by the next one of the other series, as set forth. Second, I claim the auxilliary plate carrying the guide for the looping tube, and secured to the bed plate, substantially in the manner specified, so as to be adjustable to any desired position relatively with the needle, for the purposes set forth. Third, I claim a reciprocating tube or equivalent device co-operating with an eye-pointed needle to concatenate or form the stitch and produce sewing, essentially as specified, combined with and receiving its motion from one end of a lever, the fulcrum of which is at or near the bed or table of the machine, while the other end carries the said needle, substantially as described. Fourth, I claim feeding the cloth by means of a needle, which is made to pass through the same in a position with respect to its length, diagonal to its line of movement as specified, in combination with a spring to throw the needle into position to feed the cloth the next stitch, and the screw, or its equivalent, to determine and regulate the length of the stitch, substantially as specified."

ELIAKIM B. FORBUSH, of Buffalo, N.Y., for an "Improvement in grain and grass harvesters."—Patented 17th April, 1855.—Re-issued 26th April, 1859.

"Having described my improvements in grain and grass harvesters, what I claim therein as new, and of my invention, and desire to secure by Letters Patent, is, first, the arrangement and connection of the rear cross timber *x*, in relation to the main frame, in the manner and for the purposes specified. Second, the peculiar construction and arrangement of the gear frame B, in relation to the main frame, driving wheel, and gearing, in the manner and for the purpose specified." Third, the gear key D, in combination with the gearing shaft, constructed, arranged, and operated substantially in the manner described for the purpose specified. Fourth, the locks *n*, and *r*, *s*, in the clamp, as and for the purpose set forth. Fifth, the track clearer M, *m*, provided with the arms *y*, *y*, arranged in relation to each other, and socket piece *m*, to operate in the manner and for the purpose substantially as described. Sixth, a recess I, X, made in the outside shoe in rear of the cutter bar, as and for the purpose specified. Seventh, the second angle (at *c*, *r*,) formed by the brace bars of the guard finger, substantially as herein described."

DESIGNS.

SHERMAN S. JEWITT and FRANCIS H. ROOT, of Buffalo, N.Y., for a "Design for cook's stove."

"Having thus described our ornamental design for a cooking stove, what we claim as new, and desire to secure by Letters Patent, is, the ornamental configuration and design for the plates of a stove, as herein described and shown in the accompanying drawing."

G. W. SMITH, of Hartford, Conn., for "Design for tea pot, &c."

"What I claim as new, and desire to secure by Letters Patent, is, giving tea and coffee pots, and other articles of tea and coffee sets, the configurations, flutings, and ridges, embossings, and other adornments before described, so as to produce a simple, chaste, and highly ornamental design."

ADDITIONAL IMPROVEMENTS.

CHARLES CARLISLE, of Woodstock, Vt., for an "Improvement in machine for packing wool."—Patented 6th October, 1857.—Additional Improvement dated 26th April, 1859.

"What I claim as my invention, and desire to secure by adding a description thereof to the above-mentioned Patent, is, forming either or both of the leaves B, B, of my improved wool-packing machine, of two or more connected longitudinal sections, when the said jointed leaves are so arranged as to operate with the other parts of said machine, substantially in the manner and for the purpose herein set forth."

WILLIAM WELLS, of Boston, Mass., for an "Improvement in corn shellers."—Patented 4th January, 1859.—Additional Improvement dated 26th April, 1859.

"Having described my additional improvements, what I claim therein as new, and desire to secure by addition to my Letters Patent, is, the guide (B), in combination with the weighted or spring-presser (C), made movable and adjustable with reference to the centre of the disk (A), in the manner and for the purpose set forth."

EXTENSION.

GEORGE W. THAYER, of Springfield, Mass., for an "Improvement in wooden bridges." — Patented 22nd April, 1845.

"Having thus set forth my invention, I shall claim the combination of one or more series of iron screw rods (*h*, *h*, &c.), with the suspension posts and chords or string pieces of a truss, in the manner and so as to operate substantially as herein above specified. I do not claim the combining with the posts, braces, and strings of a truss a series of supplementary braces (*k*, *k*, &c.); but what I do claim is, the arrangement of such a series of braces upon the outer sides of the truss, and so that they shall extend above and below the chords thereof, and be confined to the truss, substantially as above described."

ASA FESSENDEN, of Templeton, and LUKE S. KNIGHT, of Barre, Mass., for an "Improvement in machines for making match splints and arranging them in the dipping frames."—Patented 26th April, 1845.

"Claim."—"The combination with the series of cutters (*o*) of the passages *e*, *e*, &c. leading from the cutters, whether there be one or more series of said cutters and passages, the whole being for the purpose of making match splints from a block or blocks, as described. Also, the combination with the aforesaid cutters and passages of one or more dipping frames, arranged and operating with respect to them, substantially as herein-before described. Also, our improved manner of making the dipping frames, viz., in sections of separate pieces or plates (*h*, *h*, *h*,) as described. Also, the combination of mechanism by which each of the blocks of wood is held down upon the carriage (B), and progressively forced forward against the board (F), the said mechanism being applied to the carriage (B) and board (F), and constructed and operating together substantially as herein-before set forth. Also, the combination of machinery by which the dipping frames are progressively moved forward, the said machinery being connected with and intervening between the carriage (B) and the said dipping frames, and operating substantially in the manner as herein-before explained."

Erratum in Journal of 13th May.

1024. For "Liseux" read "Lisieux."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

List of Specifications published during the week ending 13th May, 1859.

No.	Price.	Subject-Matter.
2213	6*d.*	Manufacture of cartridges.
2215	3*d.*	Portable apparatus for administering hot air, vapour, and shower baths.
2216	9*d.*	Manufacture of bobbin net or twist lace, &c.
2217	1*s.* 1*d.*	Joining tubes.
2218	3*d.*	Boilers, furnaces, and flues.
2219	1*s.* 4*d.*	Yarn or thread winding machines.
2222	7*d.*	Reservoir or fountain pen.
2223	6*d.*	Apparatus for the manufacture of gas.
2224	2*s.* 5*d.*	Machinery for the manufacture of looped fabrics.
2225	10*d.*	Underground chambers for gas and water pipes, and telegraph wires.
2226	4*d.*	Manufacture of cloaks and other garments.
2228	3*d.*	Preparation of paper for rendering ink indelible.
2229	6*d.*	Stoppering bottles, &c.
2230	11*d.*	Looms for weaving carpets and other fabrics, &c.
2231	3*d.*	Tea kettles, &c.
2233	3*d.*	Machinery for changing the motion of steam engines, &c.
2235	3*d.*	Fire-arms.
2236	7*d.*	Fire-arms and artillery.
2237	3*d.*	Stoves and fire-places.
2239	3*d.*	Insulating, preserving, and laying submarine and other telegraphic wires or cables.
2241	10*d.*	Horse-hoes.
2242	3*d.*	Obtaining salts of soda and other alkalies.
2244	3*d.*	Instruments for inserting and fixing metal eyelets.
2245	3*d.*	Electric cables.
2246	6*d.*	Cartridge.
2247	3*d.*	Manufacture of aluminium and sodium.
2248	7*d.*	Portable fountains.
2249	6*d.*	Apparatus for preserving articles of value in case of shipwreck.
2250	3*d.*	Electric telegraphs.
2251	3*d.*	Electric telegraph cables.
2252	4*d.*	Weaving.
2253	7*d.*	Condensing and gasing smoke, &c.
2254	3*d.*	Pumps.
2255	6*d.*	Locomotive steam engines.
2256	3*d.*	Knives for shearing woollen cloths, &c.
2257	3*d.*	Reflectors.
2259	1*s.* 4*d.*	Locomotive and other steam engines.
2260	3*d.*	Dressing lace or other fabrics, &c.
2261	10*d.*	Agricultural implements.
2262	6*d.*	Apparatus for holding glass plates used in photography.
2263	3*d.*	Locks.
2264	3*d.*	Machinery for cutting and winding strips or shreds of steel, silver, &c.
2265	1*s.*	Lamps.
2266	9*d.*	Sustaining window sashes and sliding panels.
2267	3*d.*	Perforating bankers' cheques.
2268	8*d.*	Apparatus for facilitating submarine explorations.
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Museum of Patents, South Kensington.

NUMBERS of VISITORS for the Week ending 14th May, 1859.

Mornings - - - -	1145
Evenings - - - -	1142
Total - - -	2287

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TYPOGRAPHIC, LITHOGRAPHIC, AND PLATE PRINTING.
BLEACHING, DYEING, AND PRINTING YARNS AND FABRICS.
PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 561. FRIDAY, MAY 20, 1859. Price 2d.

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NOTICE is hereby given that Provisional Protection has been allowed

818. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in cricket bats."—A communication from abroad by Michael Doherty, of Boston, in the United States of America.

On his petition, recorded in the Office of the Commissioners on the 1st day of April, 1859.

884. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in telegraphing and in telegraphic apparatus."—A communication from abroad by Mr. A. Wilson, of New York, in the United States of America.

On his petition, recorded in the Office of the Commissioners on the 8th day of April, 1859.

902. To WILLIAM BOALER, of Manchester, in the county of Lancaster, Merchant, for the invention of "Certain improvements in the manufacture of soap."—Partly a communication from abroad by Allan Hay, resident at New York, U. S. A.

On his petition, recorded in the Office of the Commissioners on the 11th day of April, 1859.

976. To WILLIAM EDWARD GEDGE, of No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agent, for the invention of "An improved safety apparatus for clearing off condensed steam from steam engines."—A communication from abroad by Augustin Morel, of Roubaix, in the empire of France.

On his petition, recorded in the Office of the Commissioners on the 18th day of April, 1859.

984. To WILLIAM GOSLING, Architect, Civil Engineer and Surveyor, of 82, Wellington Street, Woolwich, Kent, for the invention of "Improving rifle cannon and projectiles."

On his petition, recorded in the Office of the Commissioners on the 19th day of April, 1859.

998. To JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the county of Gloucester, for the invention of "Improved apparatus for oiling wool."

On his petition, recorded in the Office of the Commissioners on the 20th day of April, 1859.

1044. To WILLIAM MACKENZIE, Publisher, of Glasgow, county Lanark, Scotland, for the invention of "An improved method of printing impressions upon an enlarged or reduced scale, either from engraved plates, electrotypes, blocks, drawings, or other surfaces."

On his petition, recorded in the Office of the Commissioners on the 26th day of April, 1859.

1056. To JOHN STUART, of Musselburgh, in the county of Mid-Lothian, North Britain, and WILLIAM STUART, of the same place, Manufacturers, for the invention of "Improvements in machinery or apparatus for manufacturing nets for fishing, and for other purposes."

On their petition, recorded in the Office of the Commissioners on the 27th day of April, 1859.

1065. To CHARLES RANDOLPH and JOHN ELDER, of Glasgow, in the county of Lanark, North Britain, Engineers, for the invention of "Improvements in steam engines and boilers."

1067. To ROBERT HARRINGTON, Watch Maker, of No. 3, Colonnade, Albany Road, in the parish of Camberwell, county of Surrey, for the invention of "Improvements in umbrellas and parasols."

1069. To NATHANIEL JOHN HOLMES, Gentleman, of Glasgow, county Lanark, Scotland, for the

invention of "Improvements in electric telegraphs and apparatus connected therewith."

1070. To Eugène Lardenois, of Brussels, in the kingdom of Belgium, Merchant, for the invention of "Improvements in the manufacture of pulp for paper, pasteboard, and other like articles."—A communication from Bonnet Frederic Brunel, residing in Brussels.

1071. To Thomas Clarke, of Hackney, in the county of Middlesex, Engineer, for the invention of "Improvements in sheaves or pulleys for paying out and hauling in ropes, chains, and cables, for communicating motion to machinery, and for other useful purposes."

1073. And to William Alonzo Tompson, of 18, Cecil Street, Strand, in the county of Middlesex, and Weston Green, Thames Ditton, in the county of Surrey, Surgeon and Apothecary, for the invention of "Improvements in apparatus for applying liquids to the throat and air passages for medical purposes."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of April, 1859.

1076. To William Corbett, of Clayton, near Manchester, in the county of Lancaster, and William Carmont, of the same place, Iron and Steel Manufacturers, for the invention of "Certain improvements in the construction and arrangement of furnaces employed in the manufacture of iron and steel, and for other similar purposes."

1077. To John Wellington Welch, of Manchester, in the county Lancaster, Warp Sizer, for the invention of "Improvements in sizing or dressing yarns or threads for weaving."

1079. To Edgar Andrew Porteus, of 18, Warwick Square, Paternoster Row, Engraver and Printer, and William Henry Burke, of 79, Cannon Street West, Manufacturer, for the invention of "Improvements in printing and other presses."

1081. And to Thomas Smith, of Bredfield, in the county of Suffolk, for the invention of "Improvements in cultivating implements."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of April, 1859.

1083. To Joseph Toussaint, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for the invention of "A new process of modelling and moulding for galvano-plastic."

1084. To John Darlington, of No. 36, Cannon Street, in the city of London, county of Middlesex, Mining Engineer, for the invention of "Improvements in zinc retort furnaces.'

1085. To Edward Francis, of Wrexham, in the county of Denbigh, Grocer, for the invention of "Improved apparatus applicable to the treatment of tea and other useful purposes."

1086. To James Morison, senior, and James Morison, junior, of Paisley, in the county of Renfrew, North Britain, Machine Makers, for the invention of "Improvements in looms and in apparatus connected therewith."

1087. To William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in ventilating or supplying air to diving bells and divers, and in holding communication therewith from above."—A communication from abroad by François Aquilas Laurent, of Paris.

1089. To Joseph Bull, of Port Street, Manchester, for the invention of "Improvements in apparatus used for securing bales of cotton and other substances."

1090. To Charles Hanson Greville Williams, of 39, Regent Square, Gray's Inn Road, in the county of Middlesex, for the invention of "Improvements in the manufacture of colouring matters, and in applying the same for dyeing and printing fabrics and materials."

1091. And to Joseph Souquière (called Emile), of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, for the invention of "A new or improved process for distilling coal."

On their several petitions recorded in the Office of the Commissioners on the 30th day of April, 1859.

1092. To Thomas Hall Arrowsmith, of Bolton, in the county of Lancaster, Cotton Spinner, for the invention of "Improvements in carding engines."

1093. To Ange Jumelais, Householder, of the city of Paris, in the empire of France, for the invention of "An apparatus yielding illimited power, "so-called French movement."

1094. To James Ferguson, of Kilmarnock, in the county of Ayr, North Britain, Tinsmith and Gasfitter, and James McGaveny, of Glasgow, in the county of Lanark, North Britain, Yarn Dresser, for the invention of "Improvements in fasteners for shutters and for similar uses."

1095. To William Bayliss, of the firm of W. and M. Bayliss and Co., Flat and Chain Cable, and Iron Hurdle and Fencing Manufacturers, of Monmore Green, Wolverhampton, in the county of Stafford, for the invention of "Improvements in the manufacture of iron hurdles and fencing."

1096. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in, and in connection with, electro-magnetic engines."—A communication from abroad, by Alexandre Paul Marie Darlu, of Paris.

1097. To John Basford, of the Brick Yard, Oundle, in the county of Northampton, for the invention of "An improvement in the apparatus used when expressing clay or brick earth through dies.'

1098. To James Childs, of Windsor House, Putney, in the county of Surrey, for the invention of "Improvements in the manufacture of night light cases."

1099. To William Gossage, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture and useful application of certain alkaline silicates, and in the production of liquor silicis, or liquid flint."

1100. To Daniel Moore, of Brooklyn, in the state of New York, United States of America, for the invention of "Improvements in machinery for rubbing or dressing types."

1101. To WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture of caustic soda and carbonate of soda, from certain alkaline liquors and salts."

1102. To CHARLES NUTTALL, of Rochdale, in the county of Lancaster, Machinist, for the invention of "Improvements in machinery or apparatus for grinding wire cards."

1103. And to FREDERICK WILLIAM EMERSON, of 110, Fenchurch Street, in the city of London, for the invention of "Improvements in treating ores to obtain a new metallic substance and its salts, and in the application of such matters, and also certain products of tungsten in dyeing, printing, and painting."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of May, 1859.

1104. To ABRAHAM GABÁY FRANKLIN, of No. 14, South Street, Finsbury, London, Merchant, for the invention of "Improvements in the manufacture of crayons."—A communication from abroad by M. Gottliel Wilhelm Sussner, of Nuremberg, in the kingdom of Bavaria.

1105. To WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Civil Engineer, for the invention of "Improvements in the manufacture or production of mineral oil and grease."—A communication from François Schütze, residing at Hemisem, near Anvers, in the kingdom of Belgium.

1107. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in obtaining or extracting quinine and the principal organic alkalies."—A communication from abroad by Lalonel de Sourdeval, 22, Rue Bergère, Paris.

1109. To WILLIAM SELLERS, of Philadelphia, in the state of Pennsylvania, United States of America, Engineer and Machinist, for the invention of "Improved machinery for making screw bolts and nuts."

1112. To HENRY CHAPMAN, of Battlebarrow, Appleby, in the county of Westmoreland, for the invention of "An improved military camp cooking apparatus."

1113. To HENRY CHAPMAN, of Battlebarrow, Appleby, in the county of Westmoreland, for the invention of "Improvements in the construction of kettles."

1114. To EDWARD WATKIN SCALE, of Merthyr Tydfil, in the county of Glamorgan, Gentleman, for the invention of "Improvements in railway signals."

1115. And to ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement in the manufacture of cast steel."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of May, 1859.

1116. To WILLIAM HOLLAND KINGSTON, A.B., Trinity College, Dublin, and of Bandon, county of Cork, Ireland, for the invention of "Improved means of communication between the passengers and guards, and guards and engine drivers of railway trains."

1117. To CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved form of tuyere for blast furnaces."—A communication from François Charles Bierlein, residing at Lingolshein (Bas Rhin), in the empire of France.

1118. To JOSEPH ADOLPHUS, of No. 1, Serle Street, London, in the county of Middlesex, for the invention of "An improvement in locks, bolts, and latches."

1119. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in steam boilers."—A communication from abroad by Samuel Pierce, of Troy, in the state of New York, and United States of America.

1120. To JACOB GEOGHEGAN WILLANS, of 2, Clarence Place, Belfast, for the invention of "Improvements in utilizing bog stuff or peat, when, applied for treating metals and certain mineral and alkaline substances."

1121. And to JOHN GHARLES WILSON, of 1, Langley Place, Victoria Park, Manchester, for the invention of "Improvements in machinery for cleaning cotton."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of May, 1859.

1122. To HENRY TURNER, of Park Street, Mile End, Engineer, for the invention of "Improvements in steam-engines and apparatus connected therewith."

1123. To JOSEPH FELIX ALLENDER, of Brierley Hill, in the county of Stafford, Manager of Works, and DANIEL ROWLEY, of Brierley Hill aforesaid, Iron Roller, for the invention of "Improvements in shears for cutting boiler plates and sheets, and for other like purposes."

1124. To JOHN SCHOLFIELD, of Milnrow, near Rochdale, in the county of Lancaster, Cotton Spinner, and WILLIAM CUDWORTH, of the same place, Manager, for the invention of "Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials."

1125. To HENRY CHAPMAN, of Battlebarrow, Appleby, in the county of Westmoreland, for the invention of "Improved means or appliances for protecting ships against injury from shots, shells, or other warlike projectiles."

1126. To HENRY CHAPMAN, of Battlebarrow, Appleby, in the county of Westmoreland, for the invention of "Improvements in the construction of fortifications."

1127. To WILLIAM FOTHERGILL BATHO and EUGENE MORITZ BAUER, of Salford, near Manchester, in the county of Lancaster, Engineers and Tool Makers, for the invention of "Improvements in drills for recessing, cutting slots, keyways, and cotter holes."

1129. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in seed depositors or drills."—A communication from

abroad, by Louis Achille Pruneau, formerly notary of Paris.

1130. To Andrew Knox, of No. 2, Victoria Cottages, Hertford Road, Kingsland, in the county of Middlesex, Engineer, for the invention of "Improvements in gas regulators."

1131. To Henry Reynolds, of Denmark Hill, in the county of Surrey, Gentleman, for the invention of "Improvements in refining sugar and other saccharine substances."

1132. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in cannon and other fire arms, and in projectiles, wads, and cartridges to be used therewith."—A communication from abroad by John Webster Cochran, of New York.

1133. To Henry Fletcher, of No. 42, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "A machine for scutching and carding tow, oakum, or waste cordage."—A communication from abroad by Frederick Maigron, Sulphur Baker, at La Cabucelle (St. Louis Ward), near Marseilles, in the empire of France.

1134. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved steam gauge."—A communication from abroad by Anthoine Ernest Dupas, of New Orleans, in the United States of America.

1135. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Certain improvements in fish-hooks."—A communication from abroad by Theodore Frederic Weil, of New Orleans, in the United States of America.

1136. And to John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in piano-fortes."—A communication from abroad by George Vogt, of the city of Philadelphia, in the state of Pennsylvania, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 5th day of May, 1859.

1137. To William Kellingley, of No. 13, Mason Street, New Cross, Surrey, Carriage Builder, for the invention of "Improvements in the mode of lubricating the journals of the axles of locomotive engines of carriages and machinery."

1138. To Frederick Angerstein, of Kennington, in the county of Surrey, Esquire, Robert Clegg, of Islington, in the county of Middlesex, Gentleman, and George Thorrington, of Egham, in the said county of Surrey, Lighterman, for the invention of "Improvements in apparatus for obtainfng motive-power."

1139. To Frederic William Hart, of Horncastle, in the county of Lincoln, Philosophical Instrument Maker and Photographer, for the invention of "Improvements in photographic apparatus,"

1140. To Samuel Wright, of Sudbury, in the county of Suffolk, Gas Engineer, for the invention of "An improved gas governor or regulator."

1141. To James Dixon the younger, of Blackburn, in the county of Lancaster, Paper Stainer, for the invention of "Improvements in machinery or apparatus for staining paper."

1143. To William Shakspere Booth, of Birmingham, in the county of Warwick, Undertaker, for the invention of "A new or improved washing machine."

1144. To John Frearson, of Birmingham, in the county of Warwick, Mechanical Engineer, for the invention of "New or improved fastenings for wearing apparel, and for such other purposes as the same are or may be applicable to."

1145. To George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in apparatus for grinding grain and other substances."—A communication from abroad by Pierre Etienne Brisson, of Orleans, France.

On their several petitions, recorded in the Office of the Commissioners on the 6th day of May, 1859.

1146. To Julien Combe, of No. 23, Rue du Champ de Mars, in the city of Paris, in the empire of France, Gentleman, formerly a Colonel in the French Army, for the invention of "An improved plantoforme or apparatus for measuring the hoofs of horses for the purpose of forming their shoes."

1147. To Joseph Bray, of Staley Bridge, in the county of Chester, and James William Harrison, of Staley Bridge, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for spinning fibrous materials."

1148. To Adam Carlisle Bamlett, of Middleton Tyas, in the county of York, Farmer, for the invention of "Improvements in reaping machines, part of which improvements is applicable to other agricultural implements."

1149. To Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "Improvements in the manufacture and construction of locks and fastenings."—A communication from abroad by Joseph Napoleon Rebour, a foreigner residing at Paris, France.

1150. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in puddling iron and steel."

1151. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in the manufacture of iron."

1152. To Charles Frost, of Sun Tavern Fields, St. George's-in-the-East, in the county of Middlesex, for the invention of "Improvements in the construction of electric telegraph cables."

1153. To Richard Pearsall, of Smethwick, in the county of Stafford, Glass Blower, for the invention of "Improvements in the manufacture of glass shades."

1154. To William Edward Gedge, of the firm of John Gedge and Son, No. 4, Wellington Street

South, Strand, in the county of Middlesex, Patent Agents, for the invention of "Improvements in the manufacture of steel."—A communication from abroad by Claude Joseph Perinel, of Fourvoiry, departement de l'Isère, in the empire of France, Ironmaster.

1155. To Richard Dugdale Kay, of Accrington, in the county of Lancaster, Manufacturer of Patent Fabrics, for the invention of "Improvements in the preparation of certain colouring matters."—A communication from abroad by Dollfus Mieg and Cie., residing at Mullhouse, France.

1156. And to Walter Jeffery, of Eastgate Street, Gloucester, for the invention of "Rendering more convenient out-door manipulations in photography by means of an improved portable photographic tent and tent camera."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of May, 1859.

1157. To John Ramsbottom, of Crawshaw Booth, near Rawtenstall, in the county of Lancaster, Machine Printer, for the invention of "Certain improvements in machinery for printing fabrics."

1159. To Clement Auguste Honoré Marcoux, of No. 71, Rue de Ruisseau, at Montmartre, near Paris, Sculptor, for the invention of "A new impelling mover by the pressure of water."

1163. To Alexander Morton, of Morton Place, Kilmarnock, county of Ayr, for the invention of "Improvements in means or apparatus employed in the weaving of figured fabrics."

1165. And to Thomas Green, junior, of Old Broad Street, in the city of London, for the invention of "Improvements in apparatus applicable to steam boilers, to obtain greater security against explosion."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of May, 1859.

1167. To William Frost Nuthall, of North Lodge, Kilburn, in the county of Middlesex, a Major in Her Majesty's Bengal Army, for the invention of "Improvements in ordnance and fire-arms, and in projectiles to be used therewith."

1169. To William Wilkinson and Charles Whitley, of the city of Manchester, in the county of Lancaster, for the invention of "Improvements in buttons and fastenings for garments, harness, and other similar purposes, and in the method of securing the same."

1171. To John Norman, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in furnaces."

1173. To George Bell, of Wandsworth, in the county of Surrey, Manufacturer, for the invention of "Improvements in matches or fusees."

1175. To Wedderspoon Keiller, of Perth, in county of Perthshire, for the invention of "Improvements in cartridges for guns or small fire-arms."

1177. And to John Absterdam, Mechanical Engineer, of the city of New York, United States, for the invention of "Improvements in impregnating illuminating gas with hydro-carbon vapor."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of May, 1859.

1179. To Alexandre Manbré, of No. 10, Rathbone Place, Oxford Street, London, in the county of Middlesex, Brewer, for the invention of "The manufacture of a colouring matter for colouring spirits, beers, vinegar, and other liquids, from sugar produced from rice, maize, carrots, maple, ananas, pompions, chesnuts, mangel-wurtzell, sorgho, turnips, and Jerusalem artichoks."

1181. To Jozé Luis, of No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "An improved burling and napping machine."—A communication from abroad by J. B. Duval, No. 10, Rue Mogador, Paris, in the empire of France.

1183. To Michael Henry, of No. 84, Fleet Street, in the city of London, Patent Agent, for the invention of "A mode of protecting the mariner's compass against local attraction."—A communication from abroad by Samuel C. Bishop, residing at New York, in the United States of America.

1185. To William Spence, of No. 50, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in knapsacks and other military equipments."—A communication from abroad by John Rider, of New York, United States.

1187. And to James Leadbetter, of Leeds, in the county of York, Brazier, and James Rhodes, of Armley, near Leeds, in the same county, Water-rate Collector, for the invention of "Improvements in pumps."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of May, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

21st May, 1859.

2632. James Wadsworth, of Salford, in the parish of Manchester, and county of Lancaster, Machinist, for an invention of "Improvements in gas burners, and in the means or methods of, and in apparatus for, moderating or retarding, regulating or governing, the flow and pressure of gas used for purposes of illumination, and in street lamps or lanterns for shielding flame from the action of wind and rain."—Dated 20th November, 1858.

2635. Henry Ellis, of Holbeach, in the county of Lincoln, Engineer and Agricultural Implement Maker, for an invention of "Improvements in machinery or apparatus for cultivating, cleaning, and pulverising land."—Dated 20th November, 1858.

2636. Charles Tomlinson, of Worcester Street, Wolverhampton, in the county of Stafford, Accountant, for an invention of "Improvements in stop taps or valves."—Dated 20th November, 1858.

2637. Charles Cuit, of Paris, in the empire of France, Manufacturer, for an invention of "Improvements in railway brakes."—Dated 20th November, 1858.

2638. William Lea, of the firm of William and John Lea, of Wolverhampton, in the county of Stafford, Brass Founders and Cock Makers, for an

invention of "A method of lubricating cocks and taps."—Dated 20th November, 1858.

2640. Henry Jordan, of Liverpool, in the county of Lancaster, Ship Builder, for an invention of "Improvements applicable to navigable vessels."—Dated 20th November, 1858.

2646. Heman Gardiner, of the city of New York, in the United States of America, Mechanical Engineer, for an invention of "Improvements in the compound axle hub and wheel for railroad cars."—Dated 20th November, 1858.

2648. Robert Nelson, of New York, in the United States of America, temporarily residing at Ramsay, in the Isle of Man, Mariner, for an invention of "Improvements in apparatus for raising and lifting water and other liquids."—Dated 22nd November, 1858.

2650. Samuel Waite Johnson and James Varley, both of Peterborough, in the county of Northampton, Engineers, for an invention of "Improvements in pressure and vacuum gauges."—Dated 22nd November, 1858.

2656. William Gorman, of Glasgow, in the county of Lanark, North Britain, Engraver, for an invention of "Improvements in furnaces and in the combustion of fuel, and in apparatus connected therewith."—Dated 23rd November, 1858.

2662. Richard Hugh Hughes, of Hatton Garden, in the county of Middlesex, Engineer, for an invention of "Improvements in means or apparatus employed when lighting by gas."—Dated 24th November, 1858.

2759. John Baillie, of Vienna, in the empire of Austria, Engineer, for an invention of "Improvements in the construction of railway wheels."—Dated 2nd December, 1858.

2761. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in manufacturing and revivifying bone black or animal charcoal, and in kilns and apparatus employed therein."—A communication from J. A. Lagard, a foreigner residing abroad.—Dated 3rd December, 1858.

2771. John Cameron, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in apparatus for the manufacture of sugar."—Dated 4th December, 1858.

2783. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in weaving, and in looms or apparatus employed therein."—A communication from Mr. F. Durand and Mr. Pradel, foreigners residing abroad.—Dated 4th December, 1858.

2787. John Jobson, of the Derwent Foundry, Derby, for an invention of "Improvements in the manufacture of stoves and fire places."—Dated 6th December, 1858.

2813. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in twisting fibrous materials, and in machinery or apparatus employed therein."—A communication from Messieurs F. Durand and Pradel, foreigners residing abroad.—Dated 8th December, 1858.

2872. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved arrangement of condensing apparatus."—Dated 15th December, 1858.

2972. William Haworth, of the firm of Firth and Haworth, Cotton Spinners and Manufacturers, of that part of Todmorden which is in the county of York, and William Barker, of the same place, Overlooker, for an invention of "Improvements in the top clearers of machines for spinning."—Dated 29th December, 1858.

2977. Thomas Pickford, of Number 15, Mark Lane, in the city of London, Merchant, for an invention of "Improvements in the preparation and manufacture of manure."—Dated 29th December, 1858.

526. James Howden, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in machinery or apparatus for cutting, sharpening, punching, and compressing metals."—Dated 28th February, 1859.

716. William Warne, John Americus Fanshawe, James Archibald Jaques, and Thomas Galpin, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for an invention of "An improved compound or preparation of materials for, and mode of covering and insulating wires or conductors used for telegraphic or electrical purposes."—Dated 21st March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 18th May, 1859, inclusive.*)

16th May.

1239. Thomas Herbert, of the firm of Thomas Herbert and Company, Nottingham Lace Manufacturers, and Edward Whitaker, of Nottingham aforesaid, Mechanic, for an invention of "An improvement in the manufacture of warp lace fabrics."—Dated 23rd May, 1856.

1291. Robert Jobson, of Wordsley, in the county of Stafford, Iron Founder, for an invention of "Improvements in apparatus for making moulds for casting metals."—Dated 31st May, 1856.

17th May.

1178. George Carter, of Mottingham, in the county of Kent, Gentleman, for an invention of "Improvements in the mode of propelling and steering vessels, and in the apparatus and machinery applicable thereto."—Dated 17th May, 1856.

1194. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved mode of preparing the double chlorides of aluminium and sodium, and aluminium and potassium."—A communication from Rousseau, Brothers, and Paul Morin, of Paris.—Dated 20th May, 1856.

1297. Henry Cartwright, of the Dean Broseley, in the county of Salop, for an invention of "Improvements in the application of steam cocks to steam-engines, and in working such engines thereby."—Dated 2nd June, 1856.

18th May.

1180. Jeremiah Brown, of Kingswinford, in the county of Stafford, Machinist, for an invention of "New or improved machinery to be used in the manufacture of iron."—Dated 19th May, 1856.

1187. William Maugham, of Ifield Terrace, in the county of Surrey, for an invention of "An improvement in rendering wood fire-proof."—Dated 20th May, 1856.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

1858. AARON SCHVOL, of 92, Rue des Carmes, Rouen, département de la Seine Inférieure, for "Purifying lighting gas."—Dated 18th April, 1859.

1859. EDOUARD BERTELÉ, of 11, Place Lafayette, Rouen, département de la Seine Inférieure, for "A thrashing machine."—Dated 20th April, 1859.

1860. AUGUSTE FRÉDÉRIC BRIENS, of 14, Rue d'Elbeuf, Rouen, département de la Seine Inférieure, a Certificate of Addition to his Patent of 21st May, 1858, for "A treadle."—Dated 20th April, 1859.

1861. PERNON, senr. and junr., of Section de St. Clément, Macon, département de Saône-et-Loire, for "Improved hollow tiles."—Dated 21st April, 1859.

1862. JULES NIÇOLAS POIVRET, of Troyes, département de l'Aube, a Certificate of Addition to his Patent of 23rd November, 1858, for "Making a kind of tricot on circular looms."—Dated 21st April, 1859.

1863. JEAN BAPTISTE MINISCLOUS, of 29, Rue de Roubaix, Lille, département du Nord, for "A cover of tinned wire for miners' lamps."—Dated 26th April, 1859.

1864. LOUIS LANDA, of Châlon-sur-Saône, département de Saône-et-Loire, for "A machine for making stained paper."—Dated 23rd April, 1859.

1865. JEAN ETIENNE THORIN, of Macon, département de Saône-et-Loire, for "Flat tiles."—Dated 23rd April, 1859.

1866. CHARLES AUGUSTE ROEHLER, of Betschwiller, département du Haut Rhin, a Certificate of Addition to his Patent of 25th October, 1858, for "Axles of locomotives and other transmission arbors, &c."—Dated 19th April, 1859.

* For the French Patent Law see No. 228 of this Journal.

1867. GUSTAVE LOUIS STANISLAS RÉZEAU, of Isle Lacroix, Rouen, département de la Seine Inférieure, for "An instrument for calling troops together and commanding them."—Dated 20th April, 1859.

1868. ETIENNE DEGRANGE, of 16, Rue Neyret, Lyon, département du Rhône, for "A machine for twisting all kinds of fringes."—Dated 22nd April, 1859.

1869. BENOIT RICHARD, of 54, Rue du Glayeul, Elbeuf, département de la Seine Inférieure, a Certificate of Addition to his Patent of 26th April, 1858, for "A kind of figured and plain velvet tissue."—Dated 23rd April, 1859.

1870. PIERRE VIGUIER, of Albi, département du Tarn, for "A system of pumps."—Dated 23rd April, 1859.

1871. JEAN FRANÇOIS TESTOU, represented by Corriard, of Grenoble, département de l'Isere, a Certificate of Addition to his Patent of 23rd October, 1858, for "A mechanism for mounting and unmounting bedsteads, &c."—Dated 23rd April, 1859.

1872. AUGUSTE GAY, of 5, Avenue de Noaille, Lyon, département du Rhône, for "A machine for washing, dyeing, and lustring silk."—Dated 23rd April, 1859.

1873. CHARLES ANDRÉ, of Lafère, département de l'Aisne, for "An apparatus for utilizing completely the steam of boiling juice."—Dated 23rd April, 1859.

1874. PIERRE FRÉDÉRIC SCHLOTTERBEEK, represented by Schmit, of Bar-le-Duc, département de la Meuse, a Certificate of Addition to his Patent of 8th January, 1859, for "A portable urinal."——Dated 26th April, 1859.

1875. JULES MAGUERO, of Nort, département de la Seine Inférieure, for "A sowing machine."—Dated 26th April, 1859.

1876. ADONIS FOURCEAUX, of Sault-les-Bethel, département des Ardennes, for "A kind of bricks."—Dated 26th April, 1859.

1877. HARINKOUCK and CUVILLIER, of Roubaix, département du Nord, for "A kind of tissues."—Dated 27th April, 1859.

1878. CHARLES LOUIS JOSEPH CARVILLE, of 1, Rue du Palais de Justice, Lille, département du Nord, for "Constructing and mounting smokeless generators with a reversed flame."—Dated 27th April, 1859.

1879. KŒCHLIN and Co., of Mulhouse, département du Haut Rhin, for "Improvements in weaving machines with several shuttles employed in the manufacture of figured fabrics."—Dated 23rd April, 1859.

1880. FRANÇOIS VITAL PELISSIER, of Salerme, département du Var, for "A plough with a double mould board."—Dated 27th April, 1859.

1881. ANDRÉ ISOARD and CLAUDE COUX, of 11, Rue Mission de France, Marseille, département des Bouches du Rhône, for "Straight and circular saws with moveable teeth."—Dated 20th April, 1859.

1882. LOUIS FÉLIX PERRIER, of 98, Boulevart Merentié, Marseille, département des Bouches du Rhône, a Certificate of Addition to his Patent of

13th January, 1858, for "A machine for making wax and wooden matches."—Dated 20th April, 1859.

1883. Paul Minvielle, of 69, Boulevart National, Marseille, département des Bouches du Rhône, for "A ribbed plate used in oil mills."—Dated 23rd April, 1859.

1884. Arnaud-Gaidan and Co., of Nîmes, département du Gard, a Certificate of Addition to his Patent of 23rd July, 1858, for "A fabric, called 'brocated Gobelin.'"—Dated 27th April, 1859.

1885. Antoine Torty, of Rue Passet, Lyon, département du Rhône, a Certificate of Addition to his Patent of 15th June, 1858, for "Manufacture of hats."—Dated 27th April, 1859.

1886. Saint Cyr Prieur, of Rue des Lyces, Avignon, département de la Vaucluse, for "An apparatus for distilling wine."—Dated 27th April, 1859.

1887. Paul Jacquel, of Cernay, département du Haut Rhin, for "An independent sash for looms."—Dated 28th April, 1859.

1888. Faure and Pernod, of 9, Rue Collége de la Croix, Avignon, département de la Vaucluse, for "A product, called 'madder residue.'"—Dated 27th April, 1859.

1889. François Louis Bourguignon, of La Lucerne d'Outremer, département de la Manche, for "A machine for making wooden shoes, soles of galoshes, &c."—Dated 29th April, 1859.

1890. Louis Pellissier, of 4, Rue des Ayres, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 11th October, 1858, for "A system of transmission, whereby the breaks may be worked by the engine driver, &c."—Dated 29th April, 1859.

1891. Jean Rollet, of 38, Rue des Remparts d'Ainay, Lyon, département du Rhône, for "A double-action condenser."—Dated 29th April, 1859.

1892. Jacques Vencherre, of Roubaix, département du Nord, for "A kind of carriages."—Dated 29th April, 1859.

1893. Garoty, of Toulon, represented by Aubin, at the Préfecture, Draguignan, département du Var, a Certificate of Addition to his Patent of 19th November, 1856, for "Isolating felt."—Dated 30th April, 1859.

1894. Charles Joseph Charoy-Lefranc, of Bar-le-Duc, département de la Meuse, for "A cylinder, being a substitute for cards in looms for weaving stays."—Dated 28th April, 1859.

1895. Jules Bain, domiciled at Condé sur Noireau, département de l'Orne, a Certificate of Addition to his Patent of 3rd January, 1859, for "Brushes for cleaning fluted cylinders of drawing-frames and other machines."—Dated 29th April, 1859.

1896. Pierre Isaac Garin, and his Sons, Pierre Isaac and Moise, of La Vallée Aubles, département de l'Aisne, for "A reversed chimney, applicable to thrashing machines."—Dated 30th April, 1859.

1897. Jean François Dubois, of Rue de la Marine, Caen, département du Calvados, for "A machine for bruising apples in making cyder."—Dated 2nd May, 1859.

1898. Jean Bonnin and Louis Joseph Quillon of 25, Rue St. Joseph, Lyon, département du Rhône, for "An hydraulico-pneumatic apparatus for raising water."—Dated 29th April, 1859.

1899. Jeane Baptiste Pinay, of 3, Rue de la Monnaie, Lyon, département du Rhône, for "A stop for doubling silk, wool, cotton, and all textile substances."—Dated 30th April, 1859.

1900. Lucien Pagès, domiciled with Fourès, Place St. Câme, Montgolfier, département de l'Hérault, for "A machine for knitting waistcoats having no wrong side."—Dated 30th April, 1859.

1901. Joseph Charles Péan, of Château Gontheir, département de la Mayenne, for "An apparatus for cutting thistles."—Dated 2nd May, 1859.

1902. Jules Jannesse, of Rue Tour de Gassier, Bordeaux, département de la Gironde, a Certificate of Addition to his Patent of 9th October, 1858, for "An apparatus for mixed navigation."—Dated 2nd May, 1859.

1903. Jules Deschin, of 44, Rue Bourdeau, Lille, département du Nord, for "A fire-engine."—Dated 2nd May, 1859.

1904. Pierre Léopold Chotard, of Lorient, département du Morbihan, for "A process for governing balloons."—Dated 19th April, 1859.

1905. François Chapon, of Nîmes, département du Gard, for "A process for making tiles."—Dated 29th April, 1859.

1906. Jean Pierre Emile Gaitte, of Avignon, département de la Vaucluse, for "A syphoid cooler."—Dated 2nd May, 1859.

1907. Jean Baptiste Meillard, of Lyon, département du Rhône, for "A mechanism called 'melophonium,' applicable to organs and harmoniums."—Dated 2nd May, 1859.

1908. Mrs. Lacassagne, of Route de Vaise Maison Aury, near La Demi-Lune, Ecully, département du Rhône, for "A water meter."—Dated 2nd May, 1859.

1909. Jean Reverchon, of Rue d'Annonay Maison Laprade, St. Etienne, département de la Loire, for "A pump for beer and other beverages."—Dated 3rd May, 1859.

1910. Jacques Valat, of Carcassonne, département de l'Aude, for "An improved weaving machine."—Dated 4th May, 1859.

1911. Jean Lacou, of Arcachon, département de la Gironde, for "A mode of closing jars of preserved food and fruit."—Dated 4th May, 1859.

1912. Jean Lacou, of Arcachon, département de la Gironde, for "A combined gas and steam engine."—Dated 4th May, 1859.

1913. Marcel Richier, of Ludon, département de la Gironde, for "A plough for tilling vineyards."—Dated 4th May, 1859.

1914. Couillard-Fautrel, his Sons and Nephew, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in conglomerating coal-dust."—Dated 20th April, 1859.

1915. Eloi Amable Caré and Frédéric Moïse Claparède, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 8th January, 1859, for "An apparatus for loading and unloading, &c."—Dated 20th April, 1859.

1916. Jules Ernest Boulogne and Jean Etienne Chauvet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, a Certificate of Addition to their Patent of 29th April, 1858, for "An apparatus for drying fecula and flour in general."—Dated 20th April, 1859.

1917. Jules Grivotet, of 23, Rue de Paris, Courbevoie, for "A system of universal straps."—Dated 20th April, 1859.

1918. Silvain Rateau, of 3, Place du Château Rouge, Montmartre, for "A system of iron and wooden floors."—Dated 20th April, 1859.

1919. François Emery Rougier, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in measures for tailors."—Dated 20th April, 1859.

1920. Remy François Dubois, of 27, Rue du Buisson St. Louis, Paris, for "Improvements in saddlery."—Dated 20th April, 1859.

1921. Alfred Louis Martin, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Bellows for destroying insects."—Dated 20th April, 1859.

1922. Anselme Louis Marie de Fontenay, of 49 bis, Rue de la Chaussée d'Antin, Paris, a Certificate of Addition to his Patent of 6th October, 1857, for "A smoke-consuming fire-place for furnaces in general."—Dated 21st April, 1859.

1923. Joseph Isidore Morel, represented by Daubréville, of 60, Boulevart de Strasbourg, Paris, a Certificate of Addition to his Patent of 16th November, 1858, for "A fountain pen."—Dated 21st April, 1859.

1924. Victor Helant and Poulet, of 17, Rue de l'Echiquier, Paris, for "A case for cigaret paper."—Dated 21st April, 1859.

1925. Clarck Samuel Putnam, represented by Barrault, of 33, Boulevart St. Martin, Paris, a Certificate of Addition to his Patent of 10th August, 1858, for "A steam apparatus for vulcanizing and hardening caoutchouc, &c."— Dated 21st April, 1859.

1926. Pierre Joseph Jarre, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of pistols, guns, rifles, &c., firing any number of shots."—Dated 21st April, 1859.

1927. Philippe Antoine Mathieu, domiciled with Dr. Tampier, of 7, Rue de la Boule Rouge, Paris, a Certificate of Addition to his Patent of 14th March, 1859, for "Sprinkling baths."—Dated 21st April, 1859.

1928. Crisol Fauconnier, of 15, Rue Parmentier, Paris, for "Improvements in fixed or moveable horse-gins."—Dated 21st April, 1859.

1929. Pierre Patrice Leterme, of 192, Rue du Temple, Paris, for "An harmonic flutina."—Dated 21st April, 1859.

1930. Christofle and Co., represented by Champetier de Ribes, of 56, Rue de Bondy, Paris, for "Applying bronze of aluminium."—Dated 21st April, 1859.

1931. Christofle and Co., represented by Champetier de Ribes, of 56, Rue de Bondy, Paris, for "Means of making massive galvano-plastic objects."—Dated 21st April, 1859.

1932. Parfait Giot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of trelliswork for enclosures, &c." — Dated 21st April, 1859.

1933. George Mallory, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in crinoline petticoats."—Dated 21st April, 1859.—(American Patent, expiring 19th October, 1872.)

1934. Julien Alexandre Roch, of 26, Rue des Gravilliers, Paris, for "A lathe for obtaining oval or spiral grooves on handles of umbrellas, parasols, &c."—Dated 21st April, 1859.

1935. Ozier and Co., domiciled 19, Rue aux Ours, Paris, for "Applying lithography and printing to foils."—Dated 22nd April, 1859.

1936. Aspord and Co., represented by Rigo, of 61, Rue de l'Empereur, Montmartre, a Certificate of Addition to their Patent of 1st May, 1858, for "Seamless pipes of tissues, &c."—Dated 22nd April, 1859.

1937. Auguste Jean Denis Félix Alan, domiciled with Mrs. Deschamps, of 40, Rue du Bac, Paris, for "Ventilating millstones." — Dated 22nd April, 1859.

1938. Jean Louis Georges Ledoux, of 62, Rue du Faubourg St. Denis, Paris, a Certificate of Addition to his Patent of 1st February, 1859, for "A pen-wiper."—Dated 22nd April, 1859.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

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Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
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Drogheda.
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London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*).
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
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No. 562. TUESDAY, MAY 24, 1859. Price 2d.

Notices to Proceed.

NOTICE IS hereby given, that

92. WILLIAM OLIVER, of Shadwell, in the county of Middlesex, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in boats and in the mode of propelling them."

As set forth in his petition, recorded in the said office on the 12*th day of January*, 1859.

106. And WILLIAM BENNETTS, of Tuckingmill, in the county of Cornwall, Workman, has given the like notice in respect of the invention of "Improvements in mechanism used for preventing accidents when raising or lowering skips, baskets, or apparatus, particularly applicable to mines."

110. And JOHN PICKSLEY and REUBEN SIMS, of Bedford Foundry, Leigh, in the county of Lancaster, Machine Makers, have given the like notice in respect of the invention of "Improvements in lawn mowing machines."

120. And JOSEPH BARRANS, of 2, Caledonian Terrace, Queen's Road, Peckham, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in traction and portable steam engines."

As set forth in their respective petitions, all recorded in the said office on the 13*th day of January*, 1859.

122. And SAMUEL HOLT, of the city of Manchester, in the county of Lancaster, Silk Manufacturer, has given the like notice in respect of the invention of "A new and improved manufacture of woven silk fabrics."

125. And WILLIAM DAVIS, of 2, Ann Street, Globe Fields, Mile End, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in sluice valves."

As set forth in their respective petitions, both recorded in the said office on the 14*th day of January*, 1859.

128. And JOSEPH ECCLES, of Blackburn, in the county of Lancaster, Cotton Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of articles from clay earths for building purposes, as substitutes for such articles as are usually formed of stone and other materials."

130. And POLYNICE AUGUSTE VIETTE, of No. 25, Faubourg de Shaerbeck, near Brussels, a Major in the Service of His Majesty the King of the Belgians, has given the like notice in respect of the invention of "Certain inks, applicable for engraving and lithographic purposes."

As set forth in their respective petitions, both recorded in the said office on the 15*th day of January*, 1859.

143. And ROGER GEORGE ALTER, of Alphington, in the county of Devon, Engineer, has given the like notice in respect of the invention of "Improvements in apparatuses for collecting or picking up letters, papers, and other articles requiring to be stamped or printed."

145. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in the manufacture of cast steel."

As set forth in their respective petitions, both recorded in the said office on the 17*th day of January*, 1859.

146. And JOZÉ LUI. of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new machine for putting-on, equalizing, and drying the colors on paper for hangings, bookbinding, boarding, and fancy paper, of every description."—A communication from

J. P. Faure, residing in Paris, in the empire of France.

149. And George Hamilton, of Liverpool, in the county of Lancaster, Professor of Chemistry, Queen's College, Liverpool aforesaid, has given the like notice in respect of the invention of "Improvements in treating rosin and resinous substances to obtain products therefrom, and in treating the products obtained from rosin and resinous substances."

150. And Henry Gallon, Joseph Henry Bean, and Samuel Lumb, of Leeds, Machine Makers, have given the like notice in respect of the invention of "Improvements in machinery for slotting, morticeing, tennoning, and cutting wood, iron, and other substances."

151. And Charles Dickson Archibald, of Rusland Hall, in the county palatine of Lancaster, England, Esq., at present being in the city of New York, United States of America, has given the like notice in respect of the invention of "Generating force."—A communication from Henry Munro Paine, residing at Worcester, Mass.

156. And William Trotter, of South Acomb, in the county of Northumberland, Farmer, has given the like notice in respect of the invention of "Improvements in reaping machines."

As set forth in their respective petitions, all recorded in the said office on the 18th day of January, 1859.

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162. And Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in machinery or apparatus for measuring and sorting silk and other textile materials."—A communication from Jules Veyrni, Silk Merchant, residing at Lyons, in the empire of France.

163. And James Whitehead, of Halifax, in the county of York, Wire Manufacturer, has given the like notice in respect of the invention of "Improvements in the means or machinery for the manufacture of 'purled' wire."

164. And Ebenezer Stevens, of No. 5, Patriot Row, Cambridge Road, in the county of Middlesex, has given the like notice in respect of the invention of "An improved cooking utensil."

168. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus for making cigarets."—A communication from Jacques Louis Lemaire Daimé, residing at Paris, in the empire of France, Merchant.

169. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Certain improvements in boots and shoes, and in the machinery, apparatus, and means employed in such manufacture."—A communication from Charles Jules Pierre Desnos, of 29, Boulevard St. Martin, Paris, in the empire of France.

As set forth in their respective petitions, all recorded in the said office on the 19th day of January, 1859.

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173. And William Woofe, of the city of Gloucester, Agriculturist, has given the like notice in respect of the invention of "Improvements in implements for ploughing, tilling, and paring land."

181. And Josiah Latimer Clark, of Haverstock Hill, and John Muirhead, of Gloucester Road, Regent's Park, both in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in electric telegraphs, and in the apparatus used in working the same."

As set forth in their respective petitions, both recorded in the said office on the 20th day of January, 1859.

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190. And Charles O'Hara, of Toronto, Canada West, but now residing at No. 4, Upper Seymour Street, Hyde Park, in the county of Middlesex, Esquire, has given the like notice in respect of the invention of "Improvements in propellers for propelling steam boats, ships, and vessels."

192. And Alfred Davenport, of Birmingham, in the county of Warwick, Gas Purifier Manufacturer, has given the like notice in respect of the invention of "An improved regulating burner for gas."—A communication from Henry Woodward, residing at New York, in the United States of America.

193. And James Childs, of Windsor House, Windsor Road, Putney, in the county of Surrey, has given the like notice in respect of the invention of "An improvement in applying heat in the manufacture of artificial gums and teeth, and other articles composed of india rubber or gutta percha combined with sulphur."

197. And James Newman, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of chains."

As set forth in their respective petitions, all recorded in the said office on the 21st day of January, 1859.

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203. And Edward Dorsett, of 76, Old Broad Street, in the city of London, Tar Distiller, and John Bennington Blythe, of Minerva Place, New Cross, in the county of Kent, Merchant, have given the like notice in respect of the invention of "Improvements in the distillation of oil from coal tar, and in apparatus for preserving timber therewith."

208. And Richard Barter, of St. Ann's Hill, Blarney, in the county of Cork, Doctor of Medicine, has given the like notice in respect of the invention of "Improvements in heating and ventilating buildings, and in apparatus connected therewith."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of January, 1859.

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223. And John Henry Johnson, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cutting and shaping wood."—A communication from Peter H. Niles, residing at Boston, in the United States of America.

As set forth in his petition, recorded in the said office on the 25th day of January, 1859.

252. And George Francis Bradbury, of Oldham, in the county of Lancaster, and Joseph Jackson King, of Glasgow, in the county of Lanark, North Britain, have given the like notice in respect of the invention of "Improvements in certain apparatus applicable to sewing machines."
As set forth in their petition, recorded in the said office on the 27th day of January, 1859.

258. And Charles Edwards Amos, of the Grove, in the Borough of Southwark, Engineer, and John Francis, of Bangor, in North Wales, Engineer, have given the like notice in respect of the invention of "Improvements in water-pressure engines, and their application to pumping machinery."
As set forth in their petition, recorded in the said office on the 28th day of January, 1859.

278. And John Peter Booth, of Cork, in the kingdom of Ireland, Feather Factor, has given the like notice in respect of the invention of "Improvements in ventilating ships."
As set forth in his petition, recorded in the said office on the 31st day of January, 1859.

295. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved blowing machine." — A communication from Antoine Louis Hyacinthe Fiefnet de Sauville, of Paris, in the empire of France.
As set forth in his petition, recorded in the said office on the 1st day of February, 1859.

312. And Samuel Dodson Davison, of Leith, in the county of Midlothian, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in locomotive steam engines."
As set forth in his petition, recorded in the said office on the 3rd day of February, 1859.

314. And Mark Smith, of the firm of William Smith and Brothers, of the Sun Foundry, Heywood, in the county of Lancaster, Machine Makers, has given the like notice in respect of the invention of "Certain improvements in looms for weaving."
As set forth in his petition, recorded in the said office on the 4th day of February, 1859.

509. And Alexander Reid, of the city of Manchester, Merchant, and Richard Tonge, of the same place, Manufacturer, have given the like notice in respect of the invention of "Certain improvements in weaving, and in the machinery employed therein."
As set forth in their petition, recorded in the said office on the 25th day of February, 1859.

724. And John Talbot Pitman, of the American and European Patent Offices, No. 67, Gracechurch Street, London, has given the like notice in respect of the invention of "Improvements in springs for rail road cars, and for other purposes."—A communication from abroad by John I. Fields, of Brooklyn, in the state of New York, one of the United States of America.

725. And Edward Maynard, of the city of Washington, in the district of Columbia, and United States of America, has given the like notice in respect of the invention of "Improving breech loading firearms."
As set forth in their respective petitions, both recorded in the said office on the 22nd day of March, 1859.

868. And Robert Wardell, of Stanwick, in the county of York, and Henry Kearsley, of Ripon, in the county of York, have given the like notice in respect of the invention of "Improvements in reaping machines."
As set forth in their petition, recorded in the said office on the 7th day of April, 1859.

875. And John Bindley, of Birmingham, in the county of Warwick, Engineer, and Joseph Lester Hinks, of Birmingham aforesaid, Manufacturer, have given the like notice in respect of the invention of "Improvements in rototary steam engines and pumps, a portion of which improvements may also be applied to the bearings of shafts or axles and other rotating bodies."

877. And Matthew Wheeldon, of 174, Liverpool Road, Burslem, in the county of Stafford, Glass Cutter, has given the like notice in respect of the invention of "An improvement in looking glasses and mirrors."

884. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in telegraphing and in telegraphic apparatus." — A communication from abroad by Mr. A. Wilson, of New York, in the United States of America.

885. And Elias Robison Handcock, of No. 23, Norfolk Street, Strand, in the county of Middlesex, Esquire, has given the like notice in respect of the invention of "Improvements in steam and other motive power engines."
As set forth in their respective petitions, all recorded in the said office on the 8th day of April, 1859.

899. And Rudolph Wappenstein, of the city of Manchester, in the county of Lancaster, Medallion Engraver, has given the like notice in respect of the invention of "Improvements in cop tubes, and in machinery or apparatus for placing the same on the spindles used for spinning and doubling fibrous materials."
As set forth in his petition, recorded in the said office on the 11th day of April, 1859.

948. And John Chapman, of Wolverhampton, in the county of Stafford, Ironmaster, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of angle iron."
As set forth in his petition, recorded in the said office on the 15th day of April, 1859.

962. And Henry Hussey Vivian, of Swansea, M.P., has given the like notice in respect of the invention of "Improvements in smelting copper."
As set forth in his petition, recorded in the said office on the 16th day of April, 1859.

986. And Christopher Batty, of Manchester, in the county of Lancaster, Collector, has given the like notice in respect of the invention of "An

improved means or apparatus for effecting instantaneous communication on railways between passengers and officials."

As set forth in his petition, recorded in the said office on the 19th day of April, 1859.

1002. And JAMES NAPIER, Gentleman, Partick, near Glasgow, in the county of Lanark, Scotland, has given the like notice in respect of the invention of "Improvements in producing figures or representations upon glass."

As set forth in his petition, recorded in the said office on the 21st day of April, 1859.

1056. And JOHN STUART, of Musselburgh, in the county of Mid-Lothian, North Britain, and WILLIAM STUART, of the same place, Manufacturers, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for manufacturing nets for fishing, and for other purposes."

As set forth in their petition, recorded in the said office on the 27th day of April, 1859.

1065. And CHARLES RANDOLPH and JOHN ELDER, of Glasgow, in the county of Lanark, North Britain, Engineers, have given the like notice in respect of the invention of "Improvements in steam engines and boilers."

1073. And WILLIAM ALONZO TOMPSON, of 18, Cecil Street, Strand, in the county of Middlesex, and WESTON GREEN, Thames Ditton, in the county of Surrey, Surgeon and Apothecary, have given the like notice in respect of the invention of "Improvements in apparatus for applying liquids to the throat and air passages for medical purposes."

As set forth in their respective petitions, both recorded in the said office on the 28th day of April, 1859.

1096. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, has given the like notice in respect of the invention of "Improvements in, and in connection with, electro-magnetic engines."—A communication from abroad by Alexandre Paul Emile Marie Darlu, of Paris.

As set forth in his petition, recorded in the said office on the 2nd day of May, 1859.

1116. And WILLIAM HOLLAND KINGSTON, A.B., Trinity College, Dublin, and of Bandon, county of Cork, Ireland, has given the like notice in respect of the invention of "Improved means of communication between the passengers and guards, and guards and engine drivers of railway trains."

1119. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in steam boilers."—A communication from abroad by Samuel Pierce, of Troy, in the state of New York, and United States of America.

As set forth in their respective petitions, both recorded in the said office on the 4th day of May, 1859.

1136. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in piano-fortes."—A communication from abroad by George Vogt, of the city of Philadelphia, in the state of Pennsylvania, United States of America.

As set forth in his petition, recorded in the said office on the 5th day of May, 1859.

1144. And JOHN FREARSON, of Birmingham, in the county of Warwick, Mechanical Engineer, has given the like notice in respect of the invention of "New or improved fastenings for wearing apparel, and for such other purposes as the same are or may be applicable to."

1145. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in apparatus for grinding grain and other substances."—A communication from abroad by Pierre Etienne Brisson, of Orleans, France.

As set forth in their respective petitions, both recorded in the said office on the 6th day of May, 1859.

1148. And ADAM CARLISLE BAMLETT, of Middleton Tyas, in the county of York, Farmer, has given the like notice in respect of the invention of "Improvements in reaping machines, part of which improvements is applicable to other agricultural implements."

As set forth in his petition, recorded in the said office on the 7th day of May, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

24th May, 1859.

2663. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "An improvement in cigar cases."—A communication from G. Scriba, residing in Paris.—Dated 24th November, 1858.

2668. CHARLES PETERSON, of Lowcliffe Lodge, Isle of Wight, in the county of Hants, Gentleman, for an invention of "Improvements in the manufacture of paper cartridges, and in paper applicable for waterproof purposes."—Dated 24th November, 1858.

2671. CHARLES EDWARDS AMOS, of the Grove, in the borough of Southwark, Engineer, for an invention of "Improved apparatus for raising and supporting ships or vessels while undergoing repair, which apparatus is also applicable for facilitating the passage of ships or vessels over bars, sandbanks, or in shallow waters."—Dated 25th November, 1858.

2678. Frederick Herbert Maberly, of Stowmarket, in the county of Suffolk, Master of Arts, for an invention of "Improvements in candlesticks."—Dated 25th November, 1858.

2680. Frederick Loos, of Mercer Street, Long Acre, London, for an invention of "Improvements in gas regulators."—Dated 25th November, 1858.

2687. Michael Meyers, of No. 9, Great Alie Street, Goodman's Fields, London, Umbrella and Parasol Manufacturer, for an invention of "Improvements in parasols."—Dated 26th November, 1858.

2691. John Billington Booth, of Preston, in the county of Lancaster, Spindle Manufacturer, for an invention of "Improvements in machinery or apparatus for preparing, spinning, doubling, and winding cotton and other fibrous materials."—Dated 26th November, 1858.

2693. Price Griffiths and John Brennand, both of Burnley, in the county of Lancaster, Engineers, &c., for an invention of "Improvements in lubricators for introducing lubricating matter into steam cylinders and other chambers or parts under pressure."—Dated 26th November, 1858.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 21st May, 1859, inclusive.*)

20th May.

1219. John Charles Pearce, of the Bowling Iron Works, near Bradford, in the county of York, Engineer, for an invention of "Improvements in apparatus for generating and economizing steam."—Dated 22nd May, 1856.

1226. Robert Bell, of 93, Glassford Street, Glasgow, for an invention of "An improvement in the manufacture or production of ornamental fabrics."—Dated 22nd May, 1856.

1315. Edwin Heywood, of Sutton Cross Hills, Leeds, Designer, and Thomas Ogden Dixon, of Steeton, near Keighley, Bobbin Manufacturer, both in the county of York, for an invention of "Improvements in the means of attaching drawer and other knobs or handles."—Dated 3rd June, 1856.

21st May.

1250. Benjamin Nadault de Buffon, of 13, Rue du Cherche Midi, Paris, in the empire of France, and 4, South Street, Finsbury, London, Ingénieur en Chef du Gouvernement, for an invention of "A new apparatus for clarifying and purifying water and other fluids."—Dated 26th May, 1856.

1267. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in printing machinery."—A communication.—Dated 27th May, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Invention Delivered on the 12th May, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 559 of this Journal.)

7396. A. Larose, represented by A. Hennelle, Brussels, for an imported invention of "So-called 'rational and anti-putrid manure.'"—Dated 13th April, 1859.—(French Patent, 10th March, 1859.)

7397. A. Larose, represented by A. Hennelle, Brussels, for an imported invention of "A process for purifying and assimilating phosphate of fossil lime."—Dated 13th April, 1859.—(French Patent, 10th March, 1859.)

7446. J. Tietard, of Ixelles, for "A machine for mixing substances of hydraulic lime, mortar, and other substances."—Dated 21st April, 1859.

7447. A. Rives, of Brussels, for "A substitute for Swedish tar."—Dated 21st April, 1859.

7448. T. Ziane, of Marchienne-au-Pont, for "A process for rolling cramp iron and knotted iron."—Dated 23rd April, 1859.

7449. F. J. Bolle, of Bouffioulx, for "A machine for descending workmen into mines."—Dated 23rd April, 1859.

7450. Ed. Vienne, of Mons, for "A lift and force beer-pump."—Dated 25th April, 1859.

7451. Couillard-Fauvrel, of Bouffioulx, a Patent of Improvement for "Conglomerating coal."—Dated 26th April, 1859.—(Original Patent, 23rd June, 1858.)

7452. The Belgian Artificial Wood and Marble Company, of Ixelles, a Patent of Improvement for "Manufacture of artificial marble."—Dated 22nd April, 1859.—(Original Patent, 23rd October, 1858.)

7453. J. L. Bandelot, represented by A. Picard, of Brussels, a Patent of Improvement for "A cooling apparatus for the manufacture of beer."—Dated 22nd April, 1859.—(Original Patent, 11th October, 1858.)

7455. J. Stainthorp, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for moulding candles."—Dated 22nd April, 1859.—(French Patent, 13th April, 1859.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7456. F. N. Meynier and L. A. Le Bleu, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for washing coals." — Dated 22nd April, 1859. — (French Patent, 18th April, 1859.)

7457. F. N. Meynier and L. A. Le Bleu, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in steam generators."—Dated 22nd April, 1859.—(French Patent, 15th April, 1859.)

7458. A. M. E. Lefaure, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in Tranter's revolver."— Dated 22nd April, 1859.—(French Patent, 11th April, 1859.)

7459. G. Abeillon, represented by X. Raclot, of Brussels, for "A system of centered planes and ploughs with variable curves, &c."—Dated 22nd April, 1859. — (French Patent, 23rd September, 1858.)

7461. E. L. Montefiore, of Val-Benoit, for "Treating the residue of zinc-works, &c., for extracting chloride of zinc therefrom." — Dated 23rd April, 1859.

7462. J. Crossdall, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in the manufacture of boots and shoes."— Dated 23rd April, 1859.— (English Patent, 12th April, 1859.)

7463. A. Evrard, of Brussels, for an imported invention of "A system of journals with a lubricating apparatus, applicable to all revolving axles."—Dated 23rd April, 1859.—(French Patent, 12th April, 1859.)

7464. H. J. Rigaux and W. Olivier, represented by H. Biebuyck, of Brussels, for "A system of tiles for covering all sorts of houses."—Dated 26th April, 1859.

7465. H. J. Rigaux, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of tiles for vaults." — Dated 26th April, 1859.—(Original Patent, 15th March, 1859.)

7466. J. J. Meunier, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of propulsion."—Dated 26th April, 1859. —(Original Patent, 12th May, 1858.)

7467. C. R. Neustadt and J. J. J. Bonnefond, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for distributing water."—Dated 26th April, 1859.—(French Patent, 23rd September, 1858.)

7468. J. F. Ricquier, represented by H. Biebuyck, of Brussels, for an imported invention of "A syphoid cock for rendering fermented beverages sparkling."—Dated 26th April, 1859. — (French Patent, 14th April, 1859.)

7469. L. V. Lemaignen, represented by H. Biebuyck, of Brussels, for an imported invention of "A process of manufacturing cloth, Lisieux fabrics, and beaver for foot coverings."—Dated 26th April, 1859.—(French Patent, 2nd November, 1858.)

7470. H. A. Archeran and P. E. Couillard, of Marcinelle, for an imported invention of "A system of washing coals."—Dated 26th April, 1859.

7471. H. A. Archeran and P. E. Couillard, of Marcinelle, for "Treatment of ceramic substances." —Dated 26th April, 1859.

7472. J. J. J. Fraikin, of Grivegnée, a Patent of Improvement for "A system of kitchen ranges."— Dated 26th April, 1859.—(Original Patent, 15th April, 1858.)

7473. J. J. Pirson, of Liége, a Patent of Improvement for "Manufacture of tacks."—Dated 26th April, 1859. — (Original Patent, 4th November, 1858.)

7474. B. Bekker, of Liége, a Patent of Improvement for "Bylandt's revolvers." — Dated 27th April, 1859.—(Original Patent, 16th April, 1859.)

7475. L. B. Ricciardi, of Ixelles, for "A photographic process by using mica sheets."— Dated 28th April, 1859.

7476. C. F. Zorès, represented by H. Biebuyck, of Brussels, for "A system of special arrangements of iron for building purposes."— Dated 28th April, 1859.

7477. Count A. de Bylandt, of Brussels, a Patent of Improvement for "A system of fire-arms." —Dated 28th April, 1859.

7478. F. H. Ouin, represented by A. Crooy, of Brussels, for "A kind of broom."—Dated 28th April, 1859.

7479. J. P. Dusterwald, represented by X. Raclot, of Brussels, for "A trough for washing linen." —Dated 28th April, 1859.

7480. L. Foucault, represented by J. B. A. Foucault, of Brussels, for an imported invention of "An apparatus with a circular action for crushing, compressing, and punching."—Dated 28th April, 1859.—(French Patent, 8th January, 1859.)

7481. B. F. Brunel, of Brussels, for "Manufacture of pulp for making paper and pasteboard."—Dated 29th April, 1859.

7482. J. Vandingertaelen, of Brussels, a Patent of Improvement for "A system of hygienic and safety corks."—Dated 29th April, 1859.—(Original Patent, 17th May, 1858.)

7483. J. J. Monnié, represented by X. Raclot, of Brussels, for an imported invention of "An apparatus for dry-rubbing floors."—Dated 29th April, 1859.—(French Patent, 11th August, 1858.)

7484. J. F. Delavier, represented by X. Raclot, of Brussels, for "A system of coffee and tea pot."— Dated 29th April, 1859.

7485. H. Winnen, of Brussels, for "A machine for cutting horn into spiral thongs."—Dated 29th April, 1859.

7486. J. Vankoolbergen, represented by T. J. Van Lach, for "An expeditious process of tanning."— Dated 29th April, 1859.

7487. J. B. Miniscloux, of Marquain, for an imported invention of "A cover of tinned wire applicable to miners 'safety lamps.' "—Dated 30th April, 1859.—(French Patent, 26th April, 1859.)

7488. A. Guilloteau, of Brussels, for an imported invention of "A system of furnaces for steam engines." — Dated 30th April, 1859. — (French Patent, 31st January, 1859.)

7490. A. Fongue, represented by Ravet-Anceau, of Brussels, for "A twisting system, applicable to machines for spinning cotton."—Dated 30th April, 1859.

7491. Th. Malon, of Ghent, for "A composition for dyeing the hair instantaneously."—Dated 28th April, 1859.

7492. L. Daxhelet, of Ampsin, for "A machine for pressing crucibles used in zinc furnaces."—Dated 30th April, 1859.

7493. J. Derouillon and M. Jamar, of Liege, for "A system of warlike arms."—Dated 29th April, 1859.

7494. F. J. Lalmand-Lefort, of Bothey, for "A mode of fastening locks of furniture."—Dated 30th April, 1859.

7496. J. F. Licon, of Namur, for "A spring cork-screw."—Dated 29th April, 1859.

7497. H. German and A. Evrard, of Bouffioulx, for "A moderator of draught in locomotives."—Dated 30th April, 1859.

7498. H. German and A. Evrard, of Bouffioulx, for "A hand-punch."—Dated 30th April, 1859.

7499. E. Pasquier, represented by A. Depuichault, of Schaerbeek, for "An apparatus for washing wool and other filamentous substances."—Dated 30th April, 1859.

7501. A. Bourdin, represented by H. Biebuyck, of Brussels, for "Cooking and preserving food by means of steam."—Dated 30th April, 1859.

7502. E. Souquière, represented by O. Daillencourt, of Brussels, for an imported invention of "A process for distilling coal."—Dated 30th April, 1859.—(Freneh Patent, 14th April, 1859.)

7503. A. Marque, of Brussels, for "Manufacture of grease-proof hats."—Dated 2nd May, 1859.

7504. A. Audigier, represented by E. Oulif, of Brussels, for an imported invention of "Manufacture of disinfecting powder."—Dated 2nd May, 1859.—(French Patent, 5th September, 1857.)

7506. E. Dumont and B. Delforge, of Liége, for "An apparatus for regulating the pressure and carburetting of gas."—Dated 3rd of May, 1859.

7507. J. Whitworth, represented by H. Biebuyck, of Brussels, a Patent of improvement for "A system of fire-arms."—Dated 3rd May, 1859.—(Original Patent, 11th June, 1855.)

7508. J. H. Merril, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in breech-loading fire-arms."—Dated 3rd May, 1859.—(French Patent, 24th March, 1859.)

7509. Ed. Davelny-d'Elhougne, of Bruges, a Patent of Improvement for "A printing press for obtaining proofs."—Dated 4th May, 1859.—(Original Patent, 13th April, 1859.)



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 3rd May, 1859, and each bearing that date.

No. 23,815. Fanning Albert, of Brooklyn, N. Y., for an "Improvement in manufacture of white lead."

"What I claim as my invention, and desire to secure by Letters Patent, is, the application of a rotating self-feeding cylinder for the drying of wet carbonate of lead, substantially in the manner within described."

No. 23,816. W. R. Andrews and John Oswald, of Chicago, Ill., for an "Improved alarm water gauge."

"What I claim as my invention, and desire to secure by Letters Patent, is, the disc valve E, its stem B, and spring I, applied in combination with the enclosing sockets F and G, the latter of which contains an annular passage *d*, communicating with a whistle, the whole being arranged and operating as herein set forth."

No. 23,817. Silas Barker, of Hartford, Conn., for an "Improvement in faucets."

"What I claim as my invention, and desire to secure by Letters Patent, is, the vertical discharging orifice A, as herein described, and the concave end cut off to the face slide E, in the manner and for the purpose substantially as set forth."

No. 23,818. Albert Betteley, of Boston, Mass., for an "Improvement in elevators."

"Having described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States, is, first, the combination of the air reservoir with the movable car or platform of an elevator. Second, constructing the base of the car (*c*) in the parachute form, for the purpose set forth."

No. 23,819. Amos S. Blake, of Waterbury, Conn., for an "Improved door spring."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the spring D, links (*e*), and arms A, B, as and for the purpose herein shown and described."

No. 23,820. James Boss, of Philadelphia, Pa., for an "Improvement in the manufacture of watch cases."

"I do not claim as new the process of plating metal, as herein described, for I am aware that has been done before; but what I claim, and desire to secure by Letters Patent, is, first, spinning up of watch cases by the employment of a mandrel and spinning wheels, constructed to operate in the manner substantially as set forth. Second, spun plated sheet metal watch case, constructed as herein specified."

No. 23,821. William Z. W. Chapman, of New York, N. Y., for an "Improvement in fastening for curtains of carriages, &c."

"Having thus fully set forth my devices, what I claim as new, and for which I desire Letters Patent, is, a curtain knob fastening, constructed and arranged substantially as above set, so as to be readily opened from the base or on either side of the curtain, as herein described."

No. 23,822. Chandler Cheney, of Milford, Mass., for a "Skate fastening."

"What I claim as new, and desire to secure by Letters Patent, is, securing the back part of the skate to the boot or shoe by means of the spring band, in connection with the screws, or their equivalents, when constructed and operating in the manner and for the purposes substantially as above set forth and described."

No. 23,823. D. W. Clark, of Bridgeport, Conn., for an "Improvement in sewing machines."

"Having thus described my invention, I claim and desire to secure by Letters Patent, I claim as my invention, and as an improvement on my Patent of 31st August, 1858, the combination and arrangement of mechanism herein described, for the purpose of controlling the feed wheel, in the manner set forth."

No. 23,824. William N. Clark, of Chester, Conn., for an "Improved water-cask life boat."

"Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is, 1st, I claim making the staves upon the lower side of the water cask more curved than those are upon the upper side, in order to give the life boat a proper bearing and greater stability in the water, substantially as described. 2, I claim the ballast floor G, water tank, and hatch when they are used in connection with the water cask and life boat, substantially as set forth."

No. 23,825. Henry Clayton, of Tamaqua, Pa., for an "Improved smoke stack for locomotive engine houses."

"I do not broadly claim the invention of telescope pipes for carrying off the gases arising from stoves, &c. But having described my invention, I claim and desire to secure by Letters Patent, the arrangement and combination with the smoke pipes of locomotive engines of a sliding tube (*b*), flue D, and stack C, substantially as and for the purpose herein shown and described."

No. 23,826. John H. Coe and William B. Sniffen, of Stratford, Conn., for "Skate fastening."

"What we claim as new, and desire to secure by Letters Patent, is, 1st, the employment of the curved adjustable slotted bars E, F, at the front of the foot or base plate A, combined, arranged and adjusted in relation to each other, and secured together and to the said base or foot plate A, in position to correspond with the length of the foot and form of the front part of the same, substantially in the manner and for the purpose described. 2nd, we claim the combination of the right and left screw K, and the clamps H, with the heel part of the skate frame so that both clamps are simultaneously moved, substantially as herein shown and described. 3rd, we claim the combination of a hinged handle L, with the screw which operates the clamps, so that after the skate is fastened to the foot the handle may be folded out of the way of the ice, as herein shown and described."

No. 23,827. Paschal B. Comins, of San Francisco, Cal., for an "Improvement in bomb-lance."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of wings formed of a flexible material in connection with metal springs, as described, when so arranged as to be folded on the cylinder (for containing the powder) between the head and wad, in the manner and for the purposes set forth."

No. 23,828. Matthias P. Coons, of Brooklyn, N. Y., for an "Improvement in apparatus for generating gas."

"I do not claim the use of a perforated diaphragm as a means of purifying gas, nor the connection of said diaphragm to a retort, except when the same is combined as set forth; but what I do claim as my invention, and desire to secure by Letters Patent, is, the form and mode of arrangement of the retorts, as specified, for the purpose of combininning a series of gas generating retorts as combined for extending or diminishing its capacity of generating gas indefinately, in the manner specified. I also claim the combination of a diaphragm surrounding a condensing chamber and escape pipe, the whole arranged and operated as set forth and described."

No. 23,829. Joseph Cox, of Philadelphia, Pa., for an "Improvement in cooking stoves."

"I am aware that external air has been brought into the fire chamber to aid combustion, and therefore do not claim that as the scope of my invention; but what I do claim is, the chamber *f* above the top oven plate, communicating with the external air and fire chamber, substantially as described, whereby there is effected the double function of aiding combustion and equalizing the temperature of the upper portion of the oven."

No. 23,830. Alexander Crumbie and Russell D. Briggs, of Brooklyn, N. Y., for an "Improved variable cut-off for steam engines."

"We do not claim any portion of the device patented by N. T. Green, March 13, 1855; but having described our invention, we claim, and desire to secure by Letters Patent, the arrangement and combination of the toggle-rods D, D^1, slide E, rockers C, C^1, stems A^1, and lifters (a, a^1), substantially as and for the purpose herein shown and described."

No. 23,831. Edward Cunningham and William B. Cunningham, of Powhatan Court House, Va., for an "Improvement in tobacco press."

"We do not, of course, intend to be understood as limiting ourselves to any particular method of operating our improved hand presses. What we claim as our invention, and desire to secure by Letters Patent, is, producing an improved hand press, which is especially calculated to aid in compressing bunches of leaf tobacco into the proper shape for packing or 'prising,' the said press being composed of a narrow open box, which has a fulcrum piece and a false bottom combined therewith, and a removable lever adapted thereto, substantially as herein set forth."

No. 23,832. Michael A. Dietz, of Brooklyn, N. Y., for an "Improvement in lamps."

"I do not claim, generally, the use of the deflector in the chimney band, or connecting them to the other part by means of a hinge; but what I claim as my invention, and desire to secure by Letters Patent, is, securing or connecting the deflector B to and into the chimney band A by means of a groove *c*, substantially as and for the uses and purposes set forth and described."

No. 23,833. P. F. Dodge, of West Cambridge, Mass., for an "Improved lock for pianofortes."

"What I claim as my invention, and desire to secure by Letters Patent, is, actuating the bolt by means of the arm E of the tumbler B and the recess D in the bolt A."

No. 23,834. Spencer B. Driggs, of New York, N. Y., for an "Improvement in pianofortes."

"What I claim as new, and desire to secure by Letters Patent, is, so arranging and applying the sound board and strings, and so constructing and applying the bridge or bridges of a pianoforte that the depths of the bridge or bridges, at the bearing points of the several strings, and the distances of the several strings from the board are all in the same proportion or thereabouts to the length of string, as herein described."

No. 23,835. James W. Elliott, of Prattville, Alabama, for an "Improved machine for filing gin saws."

"Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is, I do not claim making the table X adjustable at one end only, but I claim making said table adjustable at boths ends, substantially as set forth. 2, I claim the standard A with the adjustable post A^1 and slotted bar B for supporting the cylinder of saws, substantially as described. 3, I claim making the way H adjustable both perpendicularly and laterally for bringing the frame I to any desired position, substantially as described. 4, I claim the use of the clamp screw N in combination with the way H for holding the frame I in position, as set forth. 5, I claim a pawl *f* held in place by the coiled spring *g*, and operated by the connecting rod *b*, rock shaft *h*, and levers or arms *c* and *d* for rotating the saws, substantially as set forth. 6, I claim the friction plates *k* for holding and moving the saws, said plates being arranged and operated substantially as described. 7. I claim the adjustability of the guides W for the purpose of pressing the files more or less against the saws at pleasure, as set forth."

No. 23,836. William H. Elliot, of Plattsburgh, N. Y., for a "Mode of forming curved electrotype plates."

"I make no claim to the broad principle of forcing the back of a flexible impression sheet against a cylindrical form, for the purpose of giving it the required shape; but what I do claim, and wish to have secured to me by Letters Patent, is, first, the employment of ledges *i* in combination with the form A for the purpose of holding a compound flexible impression sheet or type matrix in the required form with or without screws R, as specified. Second, the employment

of curved edges B^1, in combination with the form A when said edges are so arranged in relation to said form that the edges of the compound impression sheet shall be held firmly between them, for the purpose of holding said impression sheet or type matrix in a cylindrical form, as set forth. Third, the employment of air escapes F, in combination with form A, box B, and the flexible impression sheet C, so as to provide for the escape of air from between the said impression sheet and form, as and for the purpose specified. Fourth, the combination and arrangement of the concave form A with the adjustable wires D, for the purpose of holding the impression sheet in contact with the concave side of said form, as and for the purpose set forth. Fifth, the employment of a curved impression sheet of sufficient elasticity that it may be straightened out while the matrix is being formed by the type, and then spring up again by its own power to the form required, in combination with curved form A when used for the construction of a curved type matrix, as and for the purpose specified."

No. 23,837. Joseph W. Gardner, of Shelburne Falls, Mass., for an "Improved handle for cutlery."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent is, attaching the handle D to the knife or other implements or tool, by means of a tang C, provided with a cylindrical projection E and bolsters B, the tang and projection being fitted in a longitudinal kerf or cut and hole in the handle, the bolster bearing on the end thereof, and the tang secured in the handle by a rivet *a*, substantially as described."

No. 23,838. Thomas C. Gleason, of Rochester, N. Y., for an "Improvement in machine for cleaning grain."

"Having described the construction and operation of my machine, what I claim therein as new, and desire to secure by Letters Patent is, the arrangement of the screens I and K, vibrating longitudinally with the fan G, removable apron M, and detachable smut cleaner T, the whole made to operate in conjunction, as specified, for the purposes set forth."

No. 23,839. Thomas Hawkins, of Mobile, Ala., for an "Improvement in valve gear of steam engines."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the bearing and suspending plates, one on the toe and the other on the lifter, with a self-acting (or pendulum) catch for the purpose of holding open the steam valve to any desired point of the stroke, substantially as described."

No. 23,840. Thomas L. Hawkins, of Sturgeon, Mo., for an "Improved wheelwrights' machine."

"What I claim in this machine is the arrangement of the several parts, substantially as described, for the purpose set forth."

No. 23,841. John Holmes, of Boston, Mass., for an "Improvement in ladies' hoop skirts."

"Having described my self-adjusting 'netted skirt,' what I claim as new, and of my invention, and desire to secure by Letters Patent is, first, constructing a skirt of 'knotted' or 'net work,' and this I claim whether the meshes on the front and back of the skirt are alike or not. Second, enlarging the rear upper portion of a skirt, formed by a series of meshes to form the bishop shape, by increasing the relative size or number of meshes on the rear upper portion thereof, as compared with those in the same course on the front of the skirt, substantially as described. Third, the horizontal bustle supporting spring E, in combination with the compressing tape *g*, and the upper part of the skirt, as shown and described, and for the purposes set forth. Fourth, the combination of the 'netted skirt' with the hoops *e, e, e*, spring E, compressing tape *g*, and waistband A, substantially as shown and described."

No. 23,842. Elwood Ivins, of Waterbury, Conn., for an "Improvement in hair crimper."

"Having described my invention, I claim an improved article of manufacture, a hair crimp composed of a fork A and clasp B or C, made as herein shown and described."

No. 23,843. Samuel F. Jones, of St. Paul, Ind., for an "Improved egg-beater."

"I do not claim, broadly, the driving of an egg whip by a cord; but having described my invention, I claim, and desire to secure by Letters Patent, as an improved article of manufacture, an egg-beater, having a cup B, shaft C, strap (*d*), tube (*e*), slotted bar D, cords (*g, h,*) attached to shaft C, and to adjusting screws in bar D, and otherwise made as herein shown and described."

No. 23,844. Uriel Josephs, of Quincy, Mass., for an "Improvement in skates."

"The particular improvements which constitutes my said invention, and which I claim as having been originally and first invented by me, are, first, the combination of the braces or struts B, B^1, with the plates C, C^1, either with or without the screw D, substantially as and for the purposes set forth. Second, the combination of the bar F, with the runner, substantially as described, for the purposes set forth."

No. 23,845. Ira Kinman, of Freeport, Ill., for an "Improvement in measuring faucets."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the employment of an endless screw, or its equivalent, in combination with the rotating slide F, eccentric chamber E, all arranged and operating in the manner and for purposes substantially as set forth. 2nd, I claim the register wheel P, and index hand *i*, in combination with the stop S, when the same is operated by the stem of the endless screw A, so as to indicate the quantity of liquor drawn through the faucet, substantially as above described."

No. 23,846. William Kirkpatrick, of Lancaster, Pa., for an "Improved shingle machine."

"I wish it to be understood that I make no claim to any of the devices embraced in A. V. B. Orr's Patent of July 8th, A.D. 1856, as originating with me; but what I do claim as my invention, and wish to secure by Letters Patent, is, 1st, I claim the added plate A^2, constructed as described, and when acting in combination with the wrought iron piece D, *d*, and spring S substantially as described. 2nd, I claim the guide piece *c, c, c, c*, as arranged and for the purpose specified. 3rd, I claim the combination of the rod O, with the pieces *g, g*, and *a, a*, by means of which the frow is enabled to accommodate itself to the winding grain of the timber, as already specified."

No. 23,847. David Knowton, of Camden, Maine, for an "Improved windlass."

"I claim the winch shaft G, provided with barrels J, J, and connected to the windlass by gears, as described, and so arranged that the windlass may be worked by the winch shaft on the winch shaft, and barrels may be worked independent of the windlass, substantially as and for the purpose described."

No. 23,848. L. Lefebvre, of Donaldsonville, La., for an "Improvement in steam boilers."

"I do not claim the corrugation of boiler plates, broadly considered, but claim the longitudinal fluted boiler, braced as described, in combination with the conformable under surface of the exterior flue B^1, substantially as and for the purpose set forth."

No. 23,849. A. W. Lloyd, of Otis, Mass., for an "Improvement in pumps."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the arrangement and combination of the side tube F, pipe D, valve E, and piston G, as and for the purpose herein shown and described."

No. 23,850. Joseph C. Lyons, of Auburn, N. Y., and H. F. Phillips, of Senecca Falls, N. Y., for an "Improvement in grinding mills."

"What we claim as new, desire to secure by Letters Patent, is, the within-described arrangement and combination of the grinding cone F, and the corn cracker J, when the former is arranged on a shaft C, which receives a longitudinal motion by means of a hand wheel D, and from which motion is conveyed to the corn cracker by means of wheels *k* and *l*, substantially in the manner and for the purpose herein specified."

No. 23,851. Henry Marcellus of Amsterdam, N. Y., for an "Improvement in harvesting machines."

"I do not claim a finger bar of angular form, nor angular clearing edges upon a finger bar, such features having been before employed; but what I do claim as new, and desire to secure by Letters Patent, is, the corrugated finger bar

cast with the cutting projections *e*, in combination with the detachable fingers B, constructed and applied in the manner and for the purpose specified."

No. 23,852. CHARLES MILLER, of Belleville, Ill., for an "Improved rotary engine."

"I claim a patent for all the parts above specified in combination, being and constituting a rotary steam engine, as asked for in my petition herewith presented."

No. 23,853. WARREN P. MILLER, of Marysville, Cal., for an "Improvement in locomotive machine for propelling ploughs, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the endless chain or track with the leading and driving wheels C, C, and supporting trucks E, E, the whole constructed and operated substantially as and for the purposes set forth in said specification."

No. 23,854. AARON PARKER, of Coventry, N. Y., for an "Improved mode of attaching harness breeching to wagon thills."

"Having thus described my discovery, what I claim as useful, and desire to secure by Letters Patent, is, the mode of attaching the hold back straps to thills of vehicles, by having a metal ring to slide under a spring snap in such manner that it will unfasten of itself when the traces are unhiched, as set forth."

No. 23,855. DUBOIS D. PARMELEE, of New York, N. Y., for an "Improvement in vulcanizing caoutchouc."

"What I claim, is, firstly, the method herein described of treating caoutchouc, gutta-percha, and their compounds for the purposes set forth, by employing agents in an acriform or gaseous state combined with a solvent in the liquid state. Secondly, in combination with a solution prepared in the manner hercin specified to operate on caouchouc, gutta-percha, or their compounds, as set forth, I claim preparing the said caoutchouc, gutta-percha, or their compounds by blending or incorporating therewith sulphur substantially as described. And, thirdly, I claim dissolving sulphur in the proportions set forth or thereabouts in the solution prepared as specified herein, when the same is used in combination with rubber, gutta-percha, or their compounds previously free from sulphur."

No. 23,856. NELSON PARMETER, of Gardner, Mass., for an "Improvement in cements."

"Having described my improved fireproof cement for furnaces and other purposes, what I claim as new, and desire to secure by Letters Patent, is, an improved fireproof cement composed of the above ingredients, in the proportions and in the manner substantially as herein set forth."

No. 23,857. GEORGE B. PHILLIPS, of Albany, N.Y., for an "Improved wrench for gasfitters."

"I claim the jaw D, arranged to slide substantially as described, so as to wedge, gripe, or tighten and hold the article to be turned, as described. I claim the nut K, arranged to slide freely on the bar A, and so that it may be locked to the bar when desired, in combination with the bar, when both are constructed, substantially as described. And in combination with the nut K, I claim the tightening nut I, arranged substantially as described."

No. 23,858. THOMAS PLACE, of Alfred Center, N. Y., for an "Improvement in adjustable pile driver."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, 1st, attaching the frame A to the axles *a*, *c*, by means of the bolt *b*, and rack plate B, and guides e^1, to admit the lateral adjustment of the monkey guide C, C^1, substantially as described. 2nd, securing the monkey guides C, C^1, in the frame A, by means of the universal joint *k*, and the sliding joint *i*, aranged with the lever D, and rack catch *l*, or their equivalents, to admit of the lateral inclining of the guides, as well as the forward and backward movement of the same, for the purpose set forth. 3rd, the combination of the frame A, and guides C, C, when constructed and arranged to operate conjointly, and to admit of the adjustment, as described. 4th, the arrangement of the button or stop g^1, levers J, H, I, and catch f^1, substantially as shown, for automatically releasing the shaft *a*, from the windlass G, as and for the purpose set forth."

No. 23,859. JOHN PLANT, of Washington, D. C., for an "Improvement in latch hinges."

"Having thus described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is, the hinge (*a*, *b*,) when provided with projections *c*, *c*, and latch (*g*), and when constructed and operating in the manner and for the purposes substantially as set forth."

No. 23,860. H. W. RANDLE, of Burnsville, Ala., for an "Improvement in cotton presses."

"I do not claim a spirally grooved shaft, without longitudinal motion for taking up the cord; but I claim the vertical screw shaft W, as described, in combination with the levers L, L^1, cords D, D^1, D^{11}, and the follower, substantially as and for the purposes set forth."

No. 23,861. JOSEPH RIDER, of Newark, Ohio, for an "Improvement in revolving fire-arm."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the cocking dog E, with its notches *c*, *d*, applied in combination with the hammer and trigger, and with a stationary stop *e*, to operate substantially as herein set forth, to effect the cocking of the hammer and firing. 2nd, in combination with the above, providing the said cocking dog with a notch *f*, in its extremity to be operated upon by a tooth *g*, on the trigger, substantially as described, to operate the piece entirely by the trigger, for rapidly repeated firing without cocking. 3rd, combining the locking lever G, with the cocking dog E, by means of a tooth *i* upon the lever, and a tooth *h* upon the dog, the teeth being formed to operate substantially as herein specified. 4th, the construction and application of the trigger guard, in combination with the locking levers, to serve three purposes, viz.: as the guard, as the lever for operating the rammer, and as the spring, for operating the locking lever, or its equivalent, substantially as herein described."

No. 23,862. JOSEPH ROSENCRANS, of Avoca, N.Y., for an "Improvement in cider mills."

"What I claim as my invention, and desire to secure by Letters Patent is, 1, the arrangement of the cutting cylinder and the tearing within the hopper, the one acting upon a plane, and the other upon a curved surface, and the tearing cylinder so geared as to have rapid rotation as regards the rotation of the cutting cylinder. 2d, I claim the arrangement of the grinding cylinders and pressing cylinders with the endless apron, chute, and hopper, when they are geared, as herein set forth."

No. 23,863. WASHINGTON RUDDACH, of Baltimore, Md., for an "Improvement in mail bags."

"Having thus fully described my improved mail bag, what I claim as my invention, and desire to secure by Letters Patent, is, the arrangement in the manner and for the purpose herein before specified, of the jointed plates B, C, staples D, jointed slide F, with projection F^1, when applied to bags with riveted and stitched seams."

No. 23,864. STEPHEN P. RUGGLES, of Boston, Mass., for an "Improved punching and stamping press.

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, so combining in a press for punching, stamping, &c., a coarse and fine threaded screw with the power that drives the press, as that the coarse screw may be in action when speed or motion is required, and the fine screw when power is required; the former ceasing its action and the latter coming into action according to the resistance against the punch or die, substantially as described."

No. 23,865. SAML. B. SHINN, of Philadelphia, Pa., for an "Improvement in corn and cob cutter."

"What I claim is, the peculiar construction of the cutter head A, as specified, with or without the combination of the knives B and crushers C, arranged and operating in the manner and for the purpose set forth and specified."

No. 23,866. OLLOF SHOSTROM, of Altona, Ill., for an "Improved washing machine."

"Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is, the combination and arrangement of slats *c*, levers D, serrated plates F, with rods *h*, false bottom G, endless apron 5, lever 3, and pawl 4, the several parts being constructed and operated substantially in the manner and for the purpose herein set forth."

No. 23,867. JONATHAN P. SIMMONS, of Baldwinsville, N. Y., for an "Improvement in coffee roasters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the revolving ring with the spherical case, constructed, arranged, and operating substantially as herein specified."

No. 23,868. D. F. SMITH, of Manchester, N. H., for an "Improvement in spinning flyers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of the arm and stem of the compresser of one piece, and the stop of a separate piece, so applied as to confine the stem in the ears on the flyer tube, as herein specified."

No. 23,869. JOSEPH D. SMITH, of Lancaster, Ohio, for an "Improvement in harvesting machines."

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the arrangement of the mechanism for adjusting the cutting apparatus consisting of the rack bars a, a, hinged to the cutting apparatus shaft e, provided with pinions b, b, and ratchet wheel and pawl c, d, when employed in combination with the adjustable wheel i, in the manner and for the purpose specified. 2nd, the employment of the ball journals m, m, of the reel shaft in combination with the offside horizontally turning timber n of the reel frame, substantially as and for the purposes set forth. 3rd, the combination of the secondary standard q^1, arranged on the sickle bar with the hinged laterally adjustable brace r, in the manner herein described, and for the purpose set forth. 4th, the combination with the upward curved edge f^1 of the sickle bar f, of the overhanging upper lip v, and the under back extension flanch w of the sickle guard or tooth u, in the manner and for the purpose set forth. 5th, the spring catch z^1, arranged on the sickle back y, in combination with stop notch z^2 formed in the pitman z, for the purpose of fastening the sickle or cutter back y to the pitman z, in the manner set forth."

No. 23,870. WM. H. SMITH, of Newport, R. I., for an "Improvement in rotary planing machines."

"But I do claim as new, and desire to secure by Letters Patent, the combination of the rotating cutter head C with the central adjustable bearing plate D, arranged substantially as and for the purpose set forth."

No. 23,871. GEO. W. SWIFT, of Oxford, Miss., for an "Improvement in portable horse powers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of band wheel F, shafts A and C, idlers D and E, roller B, and cord or chain H, the whole constructed and operating substantially as and for the purpose herein set forth."

No. 23,872. ISAAC P. TICE, of Baltimore, Md., for an "Improved machine for cutting wooden curved mouldings."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the adjustable bed formed of the blocks g in connection with the flexible guide plate C, rotary cutter head F, and the feed and pressure rollers D, E, or their equivalents, substanfially as and for the purpose set forth."

No. 23,873. HEZEKIAH D. TREADWELL, of Elmira, N. Y., for an "Improvement in signals for firemen."

"What I claim as my invention, is, the combination of the catch plates C, D, and conical stops c, c, c, or their equivalents, on the cords b, b, b, working through a series of holes in the catch plates, arranged substantially as set forth."

No. 23,874. WM. WALKER, of Pontiac, Mich., for an "Improvement in water wheels."

"I do not claim the employment or use of curved buckets, or those having surfaces composed of two planes placed at right angles with each other, for buckets of such form, or its equivalent, has been previously used; but having thus described my invention, what I claim as new, and desire to secure by Letters Patent is, 1st, the employment or use of the adjustable plates f, attached to the inner parts of the plates e of the buckets G, substantially as and for the purpose set forth. 2nd, providing the buckets G with adjustable plates g, arranged substantially as shown, to prevent injury to the buckets by the entrance into the scroll of hard foreign substances, as described."

No. 23,875. CHARLES and ANNA C. WILHELM, of Philadelphia, Pa., for an "Improvement in lamp shades."

"Having thus described our improvement, what we claim as our invention, and desire to secure by Letters Patent, is, the combination of the metallic shade A, A^1, A^{11}, with the paper pictures C^1, D^1, E^1, between sheets of mica, as above described."

No. 23,876. STEPHEN WILCOX, jr., of Westerly, R. I., for an "Improved air engine."

"Having thus fully described my invention, and the advantages thereof, what I claim as my invention, and desire to secure by Letters Patent is, first, the within-described arrangement of the changing cylinder B and working cylinder A, and the valve or valves by which piston b is made both to change the air from the cold to the hot end of the cylinder, and to receive a fresh volume of air for the next stroke, with the advantages within set forth. Second, automatically regulating the temperature of the interior of the heating sufaces, by the employment of the parts H and L, arranged relatively to the heating surfaces of the cylinders A and B, and to the damper n, or its equivalent, in the flue O, as within described. Third, giving the regenerator an increasing area from the cold to the hot side, substantially as and for the purpose herein set forth. Fourth, working the single valve M in combination with the two pistons a and b, as described, so as to thereby accomplish the threefold purpose of induction, eduction, and equilibrium valve, substantially in the manner and with the advantages herein set forth."

No. 23,877. WM. E. WORTHEN, of New York, N.Y., for an "Improvement in metallic lath."

"I claim, as of my own invention, a corrugated pierced sheet of metal, substantially such as herein specified, either with or without rods or tubes passed through the apertures substantially in the manner and for the purposes specified."

No. 23,878. W. A. WOOD, of Hoosick Falls, N. Y., for an "Improvement in harvesting machines."

"Having thus fully described the nature and object of my invention, what I claim therein as new, and desire to secure by Letters Patent, is, effecting an oblique delivery of the cut grain from the platform where it falls, by a series of carrying belts of different lengths, substantially as described."

No. 23,879. AUGUST WULZE, of St. Louis, Mo., for an "Improvement in machine for making pearl barley."

"Having thus described the construction and operation of my machine, what I claim as new, and desire to secure by Letters Patent is, the construction and arrangement of the before-described machinery, that is to say, the arrangement and combination of the frame or wheel H, pinions t and u, and wheel L with each other, in the manner described, and with the pulleys x^1, x, and y, y^1, and A, as set forth."

No. 23,881. F. P. CAVANAH, of Pioneer Mills, N.C., assignor to himself and R. H. Northrop, of same place, and W. A. McColloch and E. C. Aiken, of Albany, N. Y., for an "Improved amalgamator."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement and combination of the elevated quicksilver channels (f, g), near the rim of the oscillating amalgamating pan E, as and for the purpose herein shown and described."

No. 23,882. NATHAN A. DYAR, of Medford, Mass., assignor to himself and Rufus Kendrick, of Cambridge, Mass., for an "Improvement in cements for roofing."

"I claim, as a new article of manufacture, the waterproof roof covering herein described, the same consisting of a central layer or web of cloth, or its equivalent, covered on both sides with adhering layers of waterproofing, the outward side of one which is covered with a layer of paper fixed thereto by contact with the waterproofing while it is in a warm and plastic state, while upon and embedded in the outward side of the other layer of waterproofing, while in the state just described, is a layer of sand, or its equivalent, forming the uppermost or weather surface of the article."

No. 23,883. Moses G. Farmer, of Salem, Mass., assignor to Wm. F. Channing, of Boston, Mass., for an "Improved mechanism for operating steam or air signal whistles."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of an electro-magnetic escapement with the mechanism herein described, for operating a steam or air whistle, as set forth."

No. 23,884. Theophile Auguste Rousseau, of Belleville (near Paris), France, assignor to Edoward Alexander of Paris, France, for an "Improvement in reed organs."—Patented in France, 23rd January, 1857.

"Having thus described the nature of my invention, and the manner in which the same is or may be carried into effect, I wish it to be distinctly understood that what I claim as my invention, and desire to secure by Letters Patent, is, first, the arrangement of the wind chambers *h* and registers or stops *b*, in combination with the reeds *g*, *g*, as set forth, whereby each key (a^1) operates as many valves as there are stops in the instrument, but only those notes are caused to sound where the register (*b*) is open, as set forth, thus rendering the fingering easy, whatever may be the number of stops. Second, I claim the arrangement of the valves *e*, *e*, and knecpieces *f*, *f*, in the manner and for the purposes specified. Third, I claim the manner herein specified, of arranging the various plans or stories of the instrument, as shown in Fig. 1, and hinging the same together for affording access to the different parts, as set forth."

No. 23,885. Wm. Shepherd, jr., of Brooklyn, Eastern District, N. Y., assignor to Thos. Holmes and Van Wyck Foster, of same place, for an "Improvement in valves for steam engines."

"Having thus fully described my said invention, I wish it distinctly understood that I do not claim the prevention of the slamming of the valve, without reference to the means by which such result is accomplished; neither do I claim, broadly, the interposition of a steam cushion to check the motion of the valve. The particular improvement which constitutes my said invention, and which I claim as having been originally and first invented by me, is, the combination of the steam ports *f*, *f*, with the cover G, operated by the action of the valve C, substantially as described, for the purpose set forth."

Re-issues.

John K. O'Neil, of Kingston, N. Y., assignee of Yarnell Bailey, of Philadelphia, Pa., for an "Improvement in gas burners."—Patented 12th October, 1858.—Re-issued 3rd May, 1859.

"I do not claim the employment of heaters, or their equivalents, for carrying heat from the flame of lamps to the oil or vaporizing fluid thereof for the purpose of generating the gas therefrom; but what I claim as the aforesaid invention is, producing a light, which may be increased or diminished at pleasure by means of the adjustable heater D, or heat receivers *l*, *l*, operating in connection with a wick tube or holder B, and the flame of the lamp or burner, substantially as herein specified, or within the meaning and intention thereof."

Nelson P. Aiken, of Troy, N. Y., for an "Improvement in knitting machines."—Patented 13th July, 1858.—Re-issued 3rd May, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, stopping a knitting machine when the yarn accumulates in its needles by the action of the accumulated yarn, substantially as herein set forth."

James Baldwin, of Nashua, N. H., for an "Improvement in shuttles for weaving cloth."—Patented 31st January, 1840.—Extended for seven years from and after 31st January, 1854.—Re-issued 3rd May, 1859.

"What I claim, and desire to secure by Letters Patent, is, furnishing the shuttle with a spring and catch, so arranged that the bobbin will be received or released at one operation, substantially as described."

Henry B. Meyer, of Buffalo, N. Y., for an "Improvement in the mode of converting the backs of car seats into beds or lounges."—Patented 19th September, 1854.—Re-issued 3rd May, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, 1st, the use of the backs of car seats for forming upper horizontal beds or lounges, substantially as set forth. 2nd, so arranging the backs of contiguous seats that they may meet and remain in the same horizontal plane, substantially as and for the purposes set forth. 3rd, the use of a cushioned surface intermediate between the cushioned surfaces of two car seats, so to form with the same a horizontal bed, berth, or lounge, said intermediate cushion forming an attachment to, and appearing as part of, the car seat, when not adjusted to aid in forming a berth, bed, or lounge, substantially as set forth. 4th, forming a continuous line of lower horizontal beds, berths, or lounges of a series of car seats in railroad cars, by uniting the several seats so as to fill up the entire space between the seats with adjustable cushioned attachments of the seats, whatever be the character or disposition of said attachments, so long as they form and appear as parts of the seats, when not adjusted to form said continuous line of lower beds, berths, or lounges, substantially as and for the purposes set forth."

John Nicholson, of Allegheny, Pa., for an "Improvement in retorts for distilling oils from coal."—Patented 15th February, 1859.—Re-issued 3rd May, 1859.

"What I claim as my invention, and desire to secure by Letters Patent of the United States, is, 1st, the use of a straight or curved blade or blades, placed on the agitators or arms (*h*) of shaft (*e*), for the purpose of agitating, lifting, mixing, and bringing all parts of the mass within the retort in contact with the heat, as herein described and set forth. Second, the arrangement near the outer edge of one end of a retort, of four or more supply and discharge openings, and on the other end, near the outer edge, of four or more exit pipes, placed on a line with and opposite to the supply and discharge openings, as herein described."

Designs.

John McMurtry, of Fayette, N. Y., assignor to Geo. C. McMurtry, of same place, for a "Design for a burial case."

"What I claim, and desire to secure by Letters Patent, is, the design for a burial case of the form and style represented in the accompanying drawings."

Wm. H. Lewis, of Glastenbury, Conn., for a "Design for spoon and fork handles."

"I claim the configuration of a grape vine foliage upon both sides of a spoon, fork, or other handle as shown in Fig. 1 and 2 of the accompanyings."

Sherman S. Jewitt and Francis H. Root, of Buffalo, N. Y., for a "Design for stoves."

"Having thus described our ornamental design for a stove, what we claim as new, and desire to secure by Letters Patent, is, the ornamental configuration and design for the plates of a stove as described and shown in the accompanying drawings."

Additional Improvements.

William Baker, of Utica, N. Y., for journals of railroad cars."—Patented 11th August, 1857.—Additional improvement, dated 3rd May, 1859.

"I claim as new, and desire to add to my Patent, the above-described improvements, first, placing a cylindrical coiled spring around the piston, immediately above the socket, to be used instead of the volute spring below the piston and within the socket, as described. Second, I do not claim generally a ball valve, as this is in common use in various connections; but I claim the use of the ball valve T, in combination with the enlarged chamber P, and the arrangement described for communicating and sustaining the oil in contact with the journal. Third, I claim the use of the flat spring *e*, (Figs. 2 and 3,) constructed and arranged as described, to be used for vibrating the piston, together with the arrangement I have described for seating the piston on the spring as herein set forth."

D. Cumming, jr., of Mobile, Ala., for an "Improvement in mangles."—Patented 27th July, 1858.—Additional improvement dated 3rd May, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment or use of the cylinder (C), having an elliptical surface upon a portion of its periphery, and having a fixed axis of rotation, the cylinder (D) having a movable axis of rotation, and the excentric cams (h), arranged upon a movable rod, and their pressure being regulated by suitable springs, the whole being arranged to operate substantially, as and for the purposes set forth."

Extensions.

Stephen R. Parkhurst, of New York, N.Y., for "Improvements in machine for ginning cotton and wool."—Patented 1st May, 1845.

"What I claim as my invention in the above-described machine is, arranging the metallic rings, composing the burring cylinder so near together that no burs or seeds, &c. can fall in between them, the rings (e^1) having hooked teeth cut in the periphery, as described, and so placed around the cylinder as not to have the teeth on any two adjoining rings to come opposite each other, by which the wool or cotton is drawn in below the surface of the rings, and the seeds or burs are cleaned off. Secondly, I claim the combination of the burring cylinder (e^1), constructed as above described, with the feeding cylinders (*d*) and trash cylinder (*g*), to separate the fibers of cotton or wool from foreign or useless substances."

Richard M. Hoe, of New York, N.Y., for an "Imrovement in printing presses."—Patented 1st May, 1845.

"I claim the lifting of the cylinder when it is desired that it should not bear on the form as it revolves, such lifting being effected by means of the apparatus connected with the lever J, arranged and operating substantially as described. I claim the manner herein made known of constructing the spring box or apparatus used by me for checking the momentum of the bed in a cylinder press, but which may be advantageously applied in other machines for a like purpose, said spring box or apparatus being furnished with a centre shaft carrying a toothed wheel that gears into wheels or pinions on several surrounding shafts, the whole of which shafts carry spiral springs, arranged and combined as herein made known, so as to co-operate with each other in the manner described."

List of Specifications published during the week ending 20th May, 1859.

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Errata in Journal of 20th May.

1104. For "M." read "Mr."
1155. For "Mullhouse" read "Mulhouse."
1183. For "United States of America" read "United States."

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808. To DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the county of Northumberland, Doctor of Medicine, for the invention of "An improved indicating guage lead or plummet."

On his petition, recorded in the Office of the Commissioners on the 31st day of March, 1859.

1012. To HENRY KEACH and GEORGE HENRY FARRINGTON, of Bush Lane, in the city of London, Wholesale Stationers, for the invention of "Improved advertising circulars."

On their petition, recorded in the Office of the Commissioners on the 23rd day of April, 1859.

1189. To DANIEL FOXWELL, of the city of Manchester, in the county of Lancaster, Card Manufacturer, for the invention of "Improvements in sewing machines, and apparatus connected therewith."

1193. And to THOMAS RIDLEY OSWOLD, of Sunderland, Shipbuilder, for the invention of "Improvements in building ships and other vessels."

On both their petitions, recorded in the Office of the Commissioners on the 12th day of May, 1859.

1195. To JOHN WOODLEY, of Church Row, Limehouse, in the county of Middlesex, Cooper, for the invention of "Improvements in sawing machines."

1197. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Certain improvements in knitting machines."—A communication from abroad by Mr. Jonas Bradley Aiken, of Manchester, in the county of Hillsborough, and state of New Hampshire, in the United States of America, Manufacturer.

1199. To WILLIAM WHITEHOUSE, of New Ferry, near Birkenhead, in the county of Chester, Gentleman, for the invention of "Improvements in steam vessels."

1201. To THOMAS VICARS, senior, and THOMAS VICARS, junior, and THOMAS ASHMORE, of Liverpool, Engineers, and JAMES SMITH, of the same place, in the county palatine of Lancaster, Baker, for the invention of "Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith."

1203. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for treating india rubber and other similar gums."—A communication from abroad by Austin G. Day, of Seymour, Connecticut, United States of America.

1205. And to JOSHUA TAYLOR BEALE, of Greenwich, in the county of Kent, Engineer, and THOMAS NESHAM KIRKHAM, of Upper Halliford, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the preparation of colors for dyeing and printing."

On their several petitions, recorded in the Office of the Commissioners on the 13th day of May, 1859.

1207. To JOHN MAY MUNRO, of the city and county of Bristol, Agricultural Machine and Implement Manufacturer, for the invention of "Improvements in the manufacture and arrangement of chain harrows."

1209. To WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, of No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agents, for the invention of "Improvements in dyeing."—A communication from abroad by J. B. Thénault, of Triancourt, France.

1211. To THOMAS COOPER, of West Bromwich, in the county of Stafford, Builder, and THOMAS JONES EVANS, of West Bromwich aforesaid, Manager of Iron Works, for the invention of "A new or improved oven or stove for baking, for drying japanned and lacquered goods, and for such other purposes as the same is or may be applicable to."

1213. And to JOHN CHATTERTON, of 7, Devonshire Street, Islington, in the county of Middlesex, for the invention of "Improvements in covering wires and other metal conductors for telegraphic purposes."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of May, 1859.

1215. To EDWARD ADAMS, of the Stanton Iron Works, in the county of Derby, Furnace Manager, for the invention of "The employment of machinery for drawing or extracting the gas flame or smoke from furnaces, and forcing the same into them, or into the cupola, to be used as blast or fuel for melting iron or mines of any description."

1217. To JOHN JONES, of Dorstone, in the county of Hereford, Gentleman, for the invention of "Improvements in musical instruments."

1219. To GEORGE ALLCRAFT, of Upper Thames Street, in the city of London, for the invention of "Improvements in pressure guages."—A communication from John Allcraft, of Bedford Street, New York.

1221. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in manufacturing instruments for sharpening knives."—A communication from abroad by Mr. Charles S. Pomeroy, of New York.

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Inventions protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

1249. GEORGE ROBINSON SAMPSON, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "A new and useful improvement in propelling navigable vessels through water,"—a communication from John Taggart, a resident of Roxbury, of the state of Massachusetts, of the United States of America,—was deposited and recorded in the Office of the Commissioners on the 20th day of May, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And Notice is hereby also given that the petition of

1259. EUGÈNE PASQUIER, Mechanic, residing at Reims, Hinemar Prolongée Street, Marne, in the empire of France, praying for Letters Patent for the invention of "Apparatus for drying wool, and all filaceous matters," was deposited and recorded in the Office of the Commissioners on the 23rd day of May, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And Notice is hereby also given that the petition of

1286. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, praying for Letters Patent for the invention of "An improved apparatus for the preparation of sand moulds for metal casting,"—a communication from Messieurs Maudoy and Couty, residing in Paris,—was deposited and recorded in the Office of the Commissioners on the 24th day of May, 1859, and a complete specification accompanying such petition, was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

27th May, 1859.

2696. JOHN RAMSBOTTOM, of Accrington, in the county of Lancaster, Engineer, for an invention of "Improvements in machinery or apparatus applicable to water meters, and to indicating and regulating the flow and pressure of fluids generally, and in obtaining motive power from the same."—Dated 27th November, 1858.

2704. SQUIRE DIGGLE, of Radcliffe, in the county of Lancaster, Machine Maker, for an invention of "Improvements in pattern chains or other such apparatus used in weaving."—Dated 27th November, 1858.

2706. LOUIS ANTOINE POSSOZ, Chemist, of Rue Neuve St. Augustin, No. 9, Paris, in the empire of France, for an invention of "Manufacturing alkalies and obtaining simultaneously other chemical products."—Dated 29th November, 1858.

2707. GEORGE OATES, of Gatefield Works, Sheffield, in the county of York, Scissors Manufacturer, for an invention of "Improvements in the manufacture of scissors." — A communication from a Foreigner residing abroad. — Dated 29th November, 1858.

2710. GEORGE COLLIER and WILLIAM NOBLE, both of Halifax, in the county of York, for an invention of "Improvements in means or apparatus for the manufacture of spokes for carriage wheels, which improvements are also applicable to the cutting of wood for other purposes."—Dated 29th November, 1858.

2712. GEORGE HADFIELD, of Carlisle, Varnish Manufacturer, for an invention of "Improvements in the construction of carboys, barrels, and other vessels of capacity." — Dated 29th November, 1858.

2713. WILLIAM PARSONS, of Bittern, near Southampton, in the county of Hants, Bricklayer, for an invention of "Doing away with the smell arising

from the melting fat, tallow, &c., and also for an improvement in stirring and straining the same."—Dated 29th November, 1858.

2714. Charles Hancock, of West Street, Smithfield, in the city of London, Gutta Percha Manufacturer, for an invention of "Certain improvements in the insulation and manufacture of electric telegraph wires and cables."—Dated 29th November, 1858.

2716. William Arthur Henry, of Sheffield, in the county of York, Engineer, for an invention of "Improvements in machinery or apparatus for attaching the soles and heels of boots and shoes to the upper leathers, and in the fastenings employed for that purpose."—Dated 29th November, 1858.

2729. John Thow and Thomas Mitcheson Hall, both of Preston, in the county of Lancaster, Engineers, for an invention of "Preventing the fusion of the fire bars in locomotive or other furnaces."—Dated 30th November, 1858.

2733. Joseph Colyer, of Leman Street, in the county of Middlesex, Cooper and Back Maker, for an invention of "Improvements in machinery and apparatus for cutting and shaping staves and other parts of casks."—Dated 30th November, 1858.

2734. John Coulson, of the firm of J. and W. Midworth, of Newark, in the county of Nottingham, Engineers, for an invention of "Improvements in threshing and dressing machines."—Dated 30th November, 1858.

2740. Richard Laming, of Hayward's Heath, in the county of Sussex, for an invention of "Improvements in purifying gas, and in turning sulphuretted hydrogen, carbonic acid, and ammonia, or their compounds, to profitable account."—Dated 1st December, 1858.

2770. Henry Bevan, of Shrewsbury, in the county of Salop, Accountant, for an invention of "New or improved machines for effecting or facilitating arithmetical operations."—Dated 3rd December 1858.

2788. James Greene Arnold, of Worcester, Massachusetts, in the United States of America, for an invention of "Improvements in envelopes for letters and similar purposes."—Dated 6th December, 1858.

2795. Frederick William Fletcher, of Erdington, near Birmingham, in the county of Warwick, Tube and Nail Manufacturer, for an invention of "Improvements in bolts for securing doors, and for other similar purposes."—Dated 6th December, 1858.

2831. Bernard Lauth, late of Pitsburgh, state of Pennsylvania, U.S.A., but now residing at Morley's Hotel, Trafalgar Square, in the city of Westminster, Mechanician, for an invention of "An improved mode of manufacturing rods and shafts."—Dated 9th December, 1858.

2863. George Williams Baker, of Park Farm, Woburn, in the county of Bedford, Farm Steward, for an invention of "An improved construction of manger fastening."—Dated 14th December, 1858.

2892. James Jones Aston, of 41, Doughty Street, in the county of Middlesex, and of the Middle Temple, Barrister-at-Law, for an invention of "Improvements in machinery or propellers applicable for the propulsion of ships, boats, and other vessels on and through the water, and in the propelling of all such vessels on and through the water by means of such propellers."—Dated 17th December, 1858.

2925. William Spence, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, for an invention of "Improvements in granaries or apparatus for preserving grain."—A communication from Charles Joseph Emile Pavy, of Girardet, Indre et Loire, in the empire of France, Farmer and Landowner.—Dated 22nd December, 1858.

3007. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the manufacture or production and casting of steel, and in the apparatus employed therein."—A communication from Monsieur Sudre, a foreigner residing abroad.—Dated 31st December, 1858.

80. Charles Middleton Kernot, of Gloucester House, West Cowes, Isle of Wight, in the county of Southampton, Doctor of Medicine, Doctor of Laws and Logic, Doctor of Philosophy, and Member of the Royal College of Surgeons, England, &c., for an invention of "Improvements in purifying and decolorising paraffine, and rendering the same white, hard, and sweet."—Dated 11th January, 1859.

155. Richard Bradley and William Craven, of Westgate Common Foundry, Wakefield, in the county of York, Engineers, for an invention of "Improvements in machinery or apparatus for manufacturing bricks, tiles, and other similar articles."—Dated 18th January, 1859.

209. William Collett Homersham, of Adelphi Terrace, Strand, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in floating 'gridirons' or stages for repairing ships or other vessels."—Dated 24th January, 1859.

222. Henry Owen, of Portswood, Southampton, in the county of Hampshire, for an invention of "Improvements in stockings."—Dated 24th January, 1859.

809. Samuel Stephen Bateson, of 17, Bolton Street, Mayfair, in the county of Middlesex, Barrister-at-Law, for an invention of "Improvements in generating steam, and in the apparatus employed therein."—Dated 31st March, 1859.

819. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved process of manufacturing sulphate of lead, carbonate of lead, nitrate of potash, and sulphate of soda." — A communication from Samuel Cooper, of Boston, in the United States of America.—Dated 1st April, 1859.

821. William Tod, of Glasgow, in the county of Lanark, North Britain, Marine Engineer, for an invention of "Improvements in marine steam engines."—Dated 1st April, 1859.

849. George Haseltine, of the United States of America, now of 4, Southampton Buildings, Holborn, in the county of Middlesex, for an invention of "Improvements in sewing machines."—Dated 5th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 25th May, 1859, inclusive.*)

23rd May.

1244. William Illingworth, of Manchester, in the county of Lancaster, Gentleman, for an invention of "Certain improvements in printing or colouring and glazing china, earthenware, or other ceramic manufactures, and in the machinery or apparatus connected therewith, and also improvements in the subsequent treatment of such manufactures."—Dated 24th May, 1856.

1252. Alphonse Rene le Mire de Normandy, of 67, Judd Street, Brunswick Square, in the county of Middlesex, Analytical and Consulting Chemist, for an invention of "Improvements in obtaining fresh water from salt water."—Dated 26th May, 1856.

24th May.

1275. George Bell and George Grimes, Fuzee and Match Manufacturers, No. 1, Vauxhall Walk, Lambeth, for an invention of "Improvements in the manufacture of frictional matches and fuzees."—Dated 28th May, 1856.

1288. William Needham, and James Kite (secundus), both of Vauxhall, in the county of Surrey, Engineers, for an invention of "Improvements in machinery or apparatus for expressing liquids or moisture from substances."—Dated 31st May, 1856.

25th May.

1263. James Baird, of the city of Edinburgh, Wool Merchant, for an invention of "A method of freeing the wool upon skins from burrs and other extraneous substances."—Dated 26th May, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Invention Delivered on the 19th May, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 562 of this Journal.)

7445. H. G. Mondt, of Antwerp, for "Bellows for organs."—Dated 20th April, 1859.

7495. J. B. Tips, of Thielrode, for "A churn."—Dated 29th April, 1859.

7510. Th. Birchard, of La Plante-lez-Namur, for "A system of letter-cases."—Dated 3rd May, 1859.

7511. Panwels, senr. and junr., of Antwerp, for "A system of kitchen ranges."—Dated 4th May, 1859.

7513. J. Amory, represented by H. Bosch, of Brussels, a Patent of Improvement for "Furnaces of steam boilers."—Dated 4th May, 1859.—(Original Patent, 5th May, 1856.)

7514. J. A. J. Liebermann, represented by Cail, Halot, and Co., of Molenbeek St. Jean, for an imported invention of "Applying centrifugal apparatus to the manufacture of fecula, starch, and other products."—Dated 4th May, 1859.—(French Patent, 2nd June, 1856.)

7515. J. H. Pape, of Brussels, for an imported invention of "Improvements in key board instruments."—Dated 4th May, 1859.—(Original Patent, 1st October, 1858.)

7516. A. Van Opstal and Co., of Molenbeek St. Jean, for "A mode of winding up yarns and other fibrous substances into balls."—Dated 6th May, 1859.

7517. C. J. E. Pavy, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "An apparatus for preserving corn and grains."—Dated 6th May, 1859.—(French Patent, 22nd December, 1858.)

7518. G. F. Aroux, represented by H. Biebuyck, of Brussels for an imported invention of "Improvements in the method of sowing."—Dated 6th May, 1859.—French Patent, 27th January, 1859).

7519. J. T. Jones, represented by H. Biebuyck, of Brussels, for an imported invention of "Improve- in sewing machines."—Dated 6th May, 1859.—(English Patent, 15th February, 1859.)

7520. M. Bomèrè, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in lubricating machinery."—Dated 6th May, 1859.—(French Patent, 4th March, 1859.)

7521. J. B. Gaubert, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of fire-arms."—Dated 6th May, 1859.—(French Patent, 30th April, 1859.)

7522. F. Faucheux, of Brussels, for "A so-called perchloroformile substance for making hat-bodies."—Dated 6th May, 1859.

7523. A. Lapène, represented by X. Raclot, of Brussels, for an imported invention of "Using gases which are soluble in a liquid, or which may be absorbed by a solid substance, as a motor for superseding steam."—Dated 6th May, 1859.—(French Patent, 26th April, 1859.)

7524. N. J. Defuisseaux, née Messinne, of Bandour, for "A bread-oven."—Dated 19th April, 1859.

7525. R. Romaine, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in steam apparatus for agricultural purposes."—Dated 5th May, 1859.—English Patent, 25th September, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7527. E. Pavy, represented by Bredael, of Brussels, for an imported invention of "Applying colza straw to the manufacture of paper."—Dated 7th May, 1859.—(French Patent, 16th October, 1858.)

7528. J. Vincent, of Alost, for "An apparatus for winding thread, wool, and cotton on bobbins."—Dated 7th May, 1859.

7529. J. B. Huymans, of Brussels, for "A machine for cutting sugar into tablets."—Dated 9th May, 1859.

7530. A. F. Van Hulst, of Brussels, a Patent of Improvement for "A malt-kiln." — Dated 10th May, 1859. — (Original Patent, 1st February, 1859.)

7532. Buisson, represented by X. Raclot, of Brussels, for "An horizontal mill."—Dated 10th May. 1859.

7533. C. J. Perinel, represented by X. Raclot, of Brussels, for "A process for puddling steel by means of wood."—Dated 10th May, 1859.

7534. D. Hubert, of Brussels, for "A perpetual movement."—Dated 10th May, 1859.

7535. P. E. Brisson, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of mills."—Dated 11th May, 1859.—(French Patent, 31st March, 1859.)

7536. F. de Haynin, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Évrard's machine for conglomerating fuel."—Dated 11th May, 1859.—(Original Patent, 29th January, 1859.)

7537. J. L. Jullion, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "Improvements in the manufacture of paper."—Dated 11th May, 1859.—(English Patent, 9th November, 1858.)

7538. P. Olivier, of Herstal, for "Improvements in Lefaucheux' fire-arms." — Dated 9th May, 1859.

7539. H. Bayet and L. Briand, of Liége, for "Breech-loading guns."—Dated 10th May, 1859.

7540. Ch. Lenders, of Liége, for "Breech-loading rifles firing seven shots at once."—Dated 11th May, 1859.

7541. J. and S. Tixhon, of Fléron, for "A system of cast or wrought iron naves, applicable to all carriages."—Dated 11th May, 1859.

7542. J. G. Bunting, represented by J. Piddington, of Brussels, for an imported invention of "An apparatus for subduing horses." — Dated 11th May, 1859.—(English Patent, 15th November, 1858.)

7543. F. Faucheux, of Brussels, for "Manufacture of felt hats."—Dated 12th May, 1859.

7544. P. J. Wergifosse, of Brussels, a Patent of Improvement for "Arrangements in furnaces of steam boilers for the manufacture of lighting gas."—Dated 12th May, 1859.—(Original Patent, 27th October, 1857.)

7545. J. B. Thénault, represented by X. Raclot, of Brussels, for "A process for dyeing tissues."—Dated 13th May, 1859.

7546. A. E. C. J. Reynaud de Trets, represented by H. Biebuyck, of Brussels, for an imported invention of "An explosive composition for blasting rocks in mines."—Dated 13th May, 1859.—(French Patent, 10th May, 1859.)

7547. J. B. T. Doutié and E. Gavrel, represented by A. Biebuyck, of Brussels, for an imported invention of "An apparatus for torrefying and roasting by means of hot air."—Dated 13th May, 1859.—(French Patent, 5th February, 1858.)

7548. W. B. Johns, represented by J. Piddington, of Brussels, for an imported invention of "An article for military equipment." — Dated 13th May, 1859.—(American Patent, 12th April, 1859.)

7550. H. Rongy and E. Dufour, of Brussels, for "A system of heating the feed water of steam-engines."—Dated 14th May, 1859.

7551. J. Reisler, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Manufacture of starch."— Dated 14th May, 1859.—(Original Patent, 29th May, 1858.)

Errata.

In Journal of 20th May.

1073. For "and Weston Green" read "of Weston Green."

In Journal of 24th May.

312. For "Samuel Dodson Davison" read "Samuel Dobson Davison."

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AN INDEX to ALL INVENTIONS PATENTED in ENGLAND from 1617 to 1854 inclusive, arranged under the greatest number of heads, with parallel references to INVENTIONS and DISCOVERIES described in the scientific works of VARIOUS NATIONS, as classified by Professor Schubarth. By B. WOODCROFT.

The foreign works thus indexed form a portion of the Library of the Commissioners of Patents, where they may be consulted, or manuscript translations be had.

SOMMAIRE de toutes les INVENTIONS BREVETÉES en ANGLETERRE depuis 1617 jusqu'en 1854 inclusivement, arrangées d'après le plus grand nombre de rubriques, avec renvois aux INVENTIONS et DÉCOUVERTES décrites dans les ouvrages scientifiques de DIFFÉRENTES NATIONS, classés par le Professeur Schubarth. Par B. Woodcroft.

Les ouvrages étrangers ci-dessus font partie de la Bibliothèque de la Commission des Patentes, où l'on peut les consulter, et obtenir des traductions en manuscrit.

VERZEICHNISS aller in ENGLAND von 1617—1854 incl. PATENTIRTEN ERFINDUNGEN, unter vielfältige Titel gebracht, mit Hinweisungen auf ERFINDUNGEN und ENTDECKUNGEN die nach Prof. Schubarth's Klassificirung in den wissenschaftlichen Werken VERSCHIEDENER NATIONEN beschrieben sind. Von B. Woodcroft.

Die hier aufgeführten fremden Werke machen einen Theil der Bibliothek der Patent Commission aus, allwo sie nachgeschlagen oder schriftliche Uebersetzungen besorgt werden können.

REPERTORIO di tutte le INVENZIONI munite di LETTERE PATENTI in INGHILTERRA dal 1617—1854 inclusivo, poste in ordine sotto il piu gran numero di capi, con riferenze alle INVENZIONI e SCOPERTI descritti nelle opere scientifiche di DIVERSE NAZIONI, classate dal Professore Schubarth. Dal Sig. B. Woodcroft.

Le opere straniere quì indicate possono esser consultate nella Biblioteca dei Commissari delle Patenti, e traduzioni in manuscritto vi possono ottenersi.

B. WOODCROFT,
Superintendent of Specifications, &c.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. 1.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by BENNET WOODCROFT, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By SIMON STURTEVANT. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By JOHN ROVINSON (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether NICHOLAS PAGE or Sir NICHOLAS HALSE was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. DUD DUDLEY'S Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638. Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by WILLIAM WHELER, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) EDWARD SOMERSET. Lord Marquis of WORCESTER, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By THOMAS SAVERY. (*Letters Patent, No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By THOMAS SAVERY. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 & 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By JOHN ALLEN, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By JONATHAN HULLS. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By SAMUEL SUTTON, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March*, 1744.) Price 1*s.*

REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of 2*l.* 3*s.* 11½*d.*

FIRE-ARMS, PROJECTILES, &c.—The series of Specifications and Drawings on this Subject, from 15th May, 1718, to 31st December, 1853, with Alphabetical and Subject-matter Indexes, may be obtained at the cost price of 9*l.* 18*s.* 6½*d.*

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In course of Publication, by Order of the Commissioners of Patents.

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PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.

MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.

PRODUCTION AND APPLICATIONS OF GAS.

STEAM ENGINES.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 564. **TUESDAY, MAY 31, 1859.** **Price 2d.**

Notices to Proceed.

NOTICE is hereby given, that

152. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improved silk thread, and a new fabric made entirely or partially from the same."—A communication from C. Depoully, senior, residing at Paris.

As set forth in his petition, recorded in the said office on the 18th day of January, 1859.

160. And PEHR AMBJÖRN SPARRE, of Stockholm, but now of 50, Chancery Lane, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of paper suitable for bank notes, cheques, bills, and similar articles."

As set forth in his petition, recorded in the said office on the 19th day of January, 1859.

176. And SAMUEL PHILLIPS, of Moseley, in the county of Worcester, Gentleman, has given the like notice in respect of the invention of "Improvements in sliding sashes, shutters or doors."

179. And JOSEPH BENT, of Newhall Street, Birmingham, in the county of Warwick, Military Ornament Manufacturer, has given the like notice in respect of the invention of "Certain improvements in clasps or fastenings applicable for belts, garters, and other purposes."

As set forth in their respective petitions, both recorded in the said office on the 20th day of January, 1859.

185. And LOUIS LE PRINCE, of 261, Regent Street, in the county of Middlesex, Boot Maker, has given the like notice in respect of the invention of "The improvement of ladies' boots and shoes, called the caméleon boot and the caméleon shoe."

187. And GEORGE ELLIS, of No. 4, Collier Street, Pentonville, in the county of Middlesex, Merchant, has given the like notice in respect of the invention of "The improvement of muffs, to be called the 'patent reticule muff.'"

189. And RICHARD HOWELL, of Smethwick, in the county of Stafford, Gas Fitter, and RICHARD JAMES WILLDER, of Birmingham, in the county of Warwick, Hatter, have given the like notice in respect of the invention of "An improvement or improvements in taps or stop-cocks."

198. And BERNARD LAUTH, late of Pittsburgh, state of Pennsylvania, U.S.A., but now residing at Surrey Street, in the city of Westminster, Mechanician, has given the like notice in respect of the invention of "An improved mode of and improved machinery for rolling plates, bars, rods, and shafts."

199. And JOHN EDWARDS, of 77, Aldermanbury, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of buckles."

As set forth in their respective petitions, all recorded in the said office on the 21st day of January, 1859.

206. And THOMAS WEBSTER RAMMELL, of No. 16, Spring Gardens, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in atmospheric propulsion and the structures, tubes, machinery, and apparatus applicable thereto."

As set forth in his petition, recorded in the said office on the 22nd day of January, 1859.

210. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in the manufacture of cast steel and iron."

211. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement in the manufacture of cast steel."

212. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in pumps." —A communication from François Ruff, residing at Paris.

213. And Joseph Laubereau, of Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "Improvements in air engines."

As set forth in their respective petitions, all recorded in the said office on the 24th day of January, 1859.

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226. And William Hodgson and Henry Hodgson, of Bradford, in the county of York, Tool and Machine Makers, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing and spinning wool and other fibrous substances."

As set forth in their petition, recorded in the said office on the 25th day of January, 1859.

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236. And Isaac Hammond, of the city of Winchester, in the county of Hants, Gun Maker, has given the like notice in respect of the invention of "Improvements in breech loading fire-arms, and in cartridges to be used therewith."

240. And Frederick Carl Christian Paulsen, and Albin Alsing, both of Emmett Street, Limehouse, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in preparing beverages, usually called punch."

As set forth in their respective petitions, both recorded in the said office on the 26th day of January, 1859.

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254. And James Gathercole, of Bath Terrace, Camberwell New Road, in the county of Surrey, Gentleman, has given the like notice in respect of the invention of "Improved machinery for manufacturing envelopes and paper bags."

As set forth in his petition, recorded in the said office on the 27th day of January, 1859.

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270. And Jean Justin Albert de Bronac and Augustin Joseph Martial Deherrypon, Civil Engineers, of Paris, in the empire of France, have given the like notice in respect of the invention of "A new or improved process for treating metallic sulphurets, phosphurets, arseniurets, antimoniurets, and particularly sulphuretted ores of lead, antimony, copper, silver, zinc."

As set forth in their petition, recorded in the said office on the 29th day of January, 1859.

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281. And Laurent Rigolier, Engineer, residing at Lyon, Place Grolier, 5, Rhône, in the empire of France, has given the like notice in respect of the invention of "A new brake for railway carriages."

294. And Edward Hammond Bentall, of Heybridge, near Maldon, in the county of Essex, Ironfounder, has given the like notice in respect of the invention of "Improvements applicable to machinery for grinding or pulverizing various substances."

As set forth in their respective petitions, both recorded in the said office on the 1st day of February, 1859.

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320. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "An improvement in cooling worts and beer." —A communication from Madame Jolibois, residing at Dijon, France.

As set forth in his petition, recorded in the said office on the 4th day of February, 1859.

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372. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Certain improvements in breech-loading firearms, and in cartridges to be used in such fire-arms." — A communication from abroad by Gilbert Smith, of the state of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 9th day of February, 1859.

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497. And George Turnbull, of Calcutta, in the province of Bengal, in the East Indies, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."

As set forth in his petition, recorded in the said office on the 23rd day of February, 1859.

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603. And George Twigg, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "An improved fusee-igniter for the use of smokers."

As set forth in his petition, recorded in the said office on the 8th day of March, 1859.

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676. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Treating barley so as to obtain new alimentary substances therefrom."—A communication from Pierre Marmay, residing at Riom, France.

As set forth in his petition, recorded in the said office on the 17th day of March, 1859.

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731. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in fire-arms and ordnance, and in projectiles and apparatuses to be employed therewith."—A communication from Charles Rochaz, residing at Paris.

As set forth in his petition, recorded in the said office on the 22nd day of March, 1859.

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766. And George Naylor, of No. 7, Durnford Street, East Stonehouse, in the county of Devon, a Lieutenant in the Royal Marines Light Infantry, has given the like notice in respect of the invention of "An apparatus for measuring and indicating the distance passed over or travelled by the same."

As set forth in his petition, recorded in the said office on the 26th day of March, 1859.

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844. And Matthew Augustus Crooker, of New York, United States of America, Engineer, has given the like notice in respect of the invention of "Improvements in paddle wheels for steamers."

As set forth in his petition, recorded in the said office on the 4th day of April, 1859.

896. And Henry Francis Gardner, of Boston, in the United States of America, has given the like notice in respect of the invention of "Improvements in machinery for blocking or crimping the uppers of boots and shoes, and in treeing boots."—Partly a communication from abroad by William Willmott and Philander Shaw of the United States of America.

As set forth in his petition, recorded in the said office on the 9th day of April, 1859.

910. And William Clark, of Laughaugh, Galashields, Scotland, a Lieutenant in Her Majesty's Navy, has given the like notice in respect of the invention of "An improved safety block to be used for lowering ships' boats, the same being applicable to other like or analagous purposes."

As set forth in his petition, recorded in the said office on the 12th day of April, 1859.

926. And Richard Coleman, of Chelmsford, in the county of Essex, Agricultural Implement Manufacturer, has given the like notice in respect of the invention of "Improvements in agricultural implements."

As set forth in his petition, recorded in the said office on the 13th day of April, 1859.

934. And John Gillett, of Upper Brailes, in the county of Warwickshire, Agricultural Implement Maker, has given the like notice in respect of the invention of "Improved mill used for grinding, crushing, and reducing bones and other mineral and vegetable substances."

As set forth in his petition, recorded in the said office on the 14th day of April, 1859.

1043. And Herbert Allman, of Mornington Place, Hampstead Road, London, Consulting Engineer, has given the like notice in respect of the invention of "Certain improvements in the construction of window-blind mountings, and in apparatus connected therewith."

As set forth in his petition, recorded in the said office on the 26th day of April, 1859.

1083. And Joseph Toussaint, of No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, has given the like notice in respect of the invention of "A new process of modelling and moulding for galvano-plastic."

1090. And Charles Hanson Greville Williams, of 39, Regent Square, Gray's Inn Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of colouring matters, and in applying the same for dyeing and printing fabrics and materials."

As set forth in their respective petitions, both recorded in the said office on the 30th day of April, 1859.

1124. And John Scholfield, of Milnrow, near Rochdale, in the county of Lancaster, Cotton Spinner, and William Cudworth, of the same place, Manager, have given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials."

As set forth in their petition, recorded in the said office on the 5th day of May, 1859.

1153. And Richard Pearsall, of Smethwick, in the county of Stafford, Glass Blower, has given the like notice in respect of the invention of "Improvements in the manufacture of glass shades."

1155. And Richard Dugdale Kay, of Accrington, in the county of Lancaster, Manufacturer of Patent Fabrics, has given the like notice in respect of the invention of "Improvements in the preparation of certain colouring matters."—A communication from abroad by Dollfus Mieg and Cie., residing at Mulhouse, France.

As set forth in their respective petitions, both recorded in the said office on the 7th day of May, 1859.

1167. And William Frost Nuthall, of North Lodge, Kilburn, in the county of Middlesex, a Major in Her Majesty's Bengal Army, has given the like notice in respect of the invention of "Improvements in ordnance and fire-arms, and in projectiles to be used therewith."

As set forth in his petition, recorded in the said office on the 10th day of May, 1859.

1203. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for treating india-rubber and other similar gums."—A communication from abroad, by Austin G. Day, of Seymour, Connecticut, United States of America.

As set forth in his petition, recorded in the said office on the 13th day of May, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

30th May, 1859.

2739. Thomas Paramore Purssglove, of Battersea, in the county of Surrey, for an invention of "An improved pressure gauge for steam, gas, or other fluids."—Dated 1st December, 1858.

2742. James Samuel, of Great George Street, in the city of Westminster, Civil Engineer, and John Nicholson, of Wellington Street, Bromley, in the county of Middlesex, Engineer, for an invention of "Improvements in and in connexion with marine and other steam engines."—Dated 1st December, 1858.

2743. Ebenezer Viney, of the firm of John Viney and Son, of Cornhill, in the city of London, Portmanteau Manufacturers, for an invention of "An improvement in the construction of portmanteaus, desks, dressing cases, despatch boxes, and other like articles."—Dated 1st December, 1858.

2744. Henry Adcock, of the City Road, in the county of Middlesex, for an invention of "Improvements in furnaces and apparatus for annealing wire."—Dated 1st December, 1858.

2745. Frederick Warner, of Jewin Street, in the city of London, John Derbyshire, of Longton, in the county of Stafford, and Alexander Mann, of Little Britain, in the city of London, for an invention of "An improvement in the manufacture of cocks or taps."—Dated 1st December, 1858.

2748. Samuel Newington, of Ticehurst, in the county of Sussex, for an invention of "Improvements in agricultural implements."—Dated 1st December, 1858.

2760. George Spiller, of No. 15, Upper Southwick Street, in the county of Middlesex, a Lieutenant-Colonel in Her Majesty's Royal Artillery, for an invention of "Improvements in knapsacks for military and other purposes."—Dated 2nd December, 1858.

2772. Robert Legg, Millwright and Engineer, of 11, Ashby Street, Clerkenwell, in the county of Middlesex, for an invention of "A machine for combining the operation of compressing and cutting tobacco during the process of manufacture."—Dated 4th December, 1858.

2777. Thomas Sibley, of Ashton-under-Lyne, in the county of Lancaster, Machine Maker, for an invention of "Improvements in looms for weaving."—Dated 4th December, 1858.

2806. William Burness, of 2, Prospect Terrace, Brixton, in the county of Surrey, for an invention of "Improvements in pumping and forcing liquids."—Dated 7th December, 1858.

2818. Henry Meidinger, of the University of Heidelberg, Germany, for an invention of "Improvements in electric batteries."—Dated 8th December, 1858.

2828. John Wilson, of Wansford, Northamptonshire, for an invention of "Improvements in machinery for tilling and cultivating land."—Dated 9th December, 1858.

2833. John Lightfoot, of Accrington, in the county of Lancaster, Calico Printer, for an invention of "Improvements in printing or staining yarns, fabrics, or fibrous substances, and in the manufacture of certain compounds for that purpose."—Dated 10th December, 1858.

2838. William Beardmore, of Deptford, in the county of Kent, Engineer, for an invention of "Improvements in steam boilers."—Dated 10th December, 1858.

2840. George William Bryant Kiallmark, of Bridgewater, in the county of Somerset, and William Thomas Timewell, of North Wharf Road, Paddington, in the county of Middlesex, for an invention of "Improvements in the manufacture of cements."—Dated 10th December, 1858.

2842. John Bonar Guthrie, of Manchester, in the county of Lancaster, Warehouseman, for an invention of "Improvements in the manufacture of india-rubber overshoes."—Dated 11th December, 1858.

2860. Ebenezer Bow, of Port Dundas, in the county of Lanark, North Britain, Coalmaster, for an invention of "Improvements in pumps."—Dated 14th December, 1858.

2873. John Bullough, of Blackburn, in the county of Lancaster, Manager, for an invention of "Improvements in looms."—Dated 15th December, 1858.

2875. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improved agricultural implements."—A communication from Louis Jacques, Château Public Notary, of Paris, in the empire of France.—Dated 15th December, 1858.

2891. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in submarine electric telegraph cables or conductors."—A communication from Felix Marie Baudouin, of Rue des Recollets, Paris.—Dated 16th December, 1858.

2899. John Aitken, of Irwell Vale Mill, Edenfield, near Bury, in the county of Lancaster, Manufacturer, and John Brooks, of the same place, Overlooker, for an invention of "Improvements in looms."—Dated 18th December, 1858.

2901. Alexander Mitchell, of Glasgow, Machinist, for an invention of "Improved apparatus for registering the speed of engines and other machinery."—Dated 18th December, 1858.

2916. Auguste Stanislas Beliard, of Bordeaux, in the empire of France, Hatter, for an invention of "An improved machine for pumicing felts, tissues, and skins."—Dated 21st December, 1858.

544. John Pile, of West Hartlepool, in the county of Durham, Shipbuilder, for an invention of "Improvements in the construction of floating docks."—Dated 1st March, 1859.

558. Joseph Kershaw, of Allerton, near Bradford, in the county of York, Overlooker, for an invention of "Improvements in means or apparatus employed in weaving."—Dated 2nd March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 28th May*, 1859, *inclusive.*)

27th May.

1310. Edward Marsden, of Handley Wood, in the county of Derby, Agriculturalist, for an invention of "Improvements in implements for pulverizing and cleaning land."—Dated 2nd June, 1856.

1313. Thomas William Willett, of 89, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the manufacture of gunpowder."—Dated 3rd June, 1856.

28th May.

1283. Frederick Luke Stott, of Rochdale, Mechanic, Thomas Belward, of the city of Manchester, Joiner, and James Findlow, of the same

place, Joiner, all in the county of Lancaster, for an invention of "Improvements in machinery or apparatus for washing wool, or garments and other articles made of textile fabrics."—Dated 30th May, 1856.

1292. Henry Bessemer, of 4, Queen Street Place, New Cannon Street, in the city of London, for an invention of "Improvements in the manufacture of iron and steel."—Dated 31st May, 1856.

FOREIGN PATENTS.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 10th May, 1859, and each bearing that date.

No. 23,886. Milton Alden, of Auburn, N. Y., for an "Improvement in cultivators."

"I claim the within described arrangement and combination of the adjustable shares B, the frame A, and the raised thills C, which are made out of one piece with the handles D.

No. 23,887. Wm. H. Auld, of Brighton, Iowa, for an "Improved machine for sawing shingles."

"I claim the adjustable saws C, C, in connection with the reciprocating bolt carriage L. I also claim the arrangement of the notched racks *l*, *l*, gearing *k*, *k*, weight *r*, pins *s*, *s*, levers *v*, *v*, a^1, and bars *x*, b^1, attached to the bolt carriage in connection with the stops $a\times$, for automatically feeding the bolt M, to the saws C, C."

No. 23,888. Chas. Bamberg and Roman Blaser, of Chicago, Ill., for an "Improvement in machines for separating stones, &c. from clay."

"We claim the conical rotating screen C, in connection with the separator F, placed within suitable boxes A, G, constructed and arranged relatively with each other to operate."

No. 23,889. Jacob Batchelder, of Salem, Mass., for an "Improvement in sole cutting machines."

I claim, first, the particular and relative arrangement of the levers *e*, *e*, and e^1, e^1, with the cranks *n*, *p*, and *f*, f^1, for giving the required motions to the cutting knives. Second, the use and arrangement of the adjustable and intermediate gauge board w^1, whereby each alternate sole can be cut of equal or unequal width."

No. 23,890. John Bean and Benjn. Wright, of Hudson, Mich., for an "Improvement in straw cutters."

"We claim the arrangement and combination of the knife C, lever D, and rock shaft E.

No. 23,891. Sidney A. Beers, of Brooklyn, N.Y., for an "Improvement in railroads for streets."

"I claim the construction of upright self-sustaining rails of cast or other iron, with car and carriage track combined, to be laid in public streets and highways, and for no other purpose."

No. 23,892. Hamilton T. Beggs, of Liberty, Va., and James Allen, of Lynchburg, Va., for an "Improvement in brick machines."

"We claim the combination of the bevel wheel C, cast with the cells P therein, for the reception of the moulds D, the plungers E, with the friction rollers and axles F, circular inclined plane ring *g*, and guard H, and top plate B, when the several parts are constructed and arranged for joint operation."

No. 23,893. Edwd. Behr, of New York, N.Y., for "Skate fastening."

"I claim drawing or tightening the toe and heel straps G, E, of the skate around the foot of the wearer, by means of the screw rods F, I, and nuts *d*, *i*, fitted in the stock A, one end of the straps being attached to the stock A, and the opposite ends to the nuts by means of the cords *b*, *f*, or their equivalents."

No. 23,894. A. J. Bentley and Wm. H. Allen, of New York, N.Y., for an "Improved ships'-stop block."

"We claim the arrangement of rollers and wedges."

No. 23,895. L. F. Bingham and N. O. Pierce, of Chicago, Ill., for an "Improvement in corn planters."

"We claim the arrangement of the rotating planter A, square tube 10, beam O, lever N, 'spat down' or leverler 12, and scraper *p*."

No. 23,896. A. W. Brinkerhoff, of Upper Sandusky, Ohio, for an "Improvement in corn planters."

"I claim the adjustable coverer D and opener P in combination with lever L, the weighted lever A operating the rollers and rod B."

No. 23,897. James Brown, of London, England, for an "Improvement in the manufacture of paper and paper pulp."—Patented in England, June 10th, 1857.

"I claim the treatment of paper and paper material with glycerine, substantially as described, to be employed for printing or other purposes."

No. 23,898. C. M. Bryan, of Wright City, Mo., for an "Improvement in ploughs."

"I claim attaching the mould board D, by means of the bolts *h*, *h*, *i*, *i*, passing through cleets *b*, *b*, at the inner side of the mould board, and into the land side E, and handle C^1, the bolts *g*, d^1, and the brace bar *d*."

No. 23,899. Elisha J. Burrall, of Geneva, N.Y., for an "Improvement in machines for sowing fertilizers."

"I claim the arrangement of the revolving cylinder *a*, divisions k^1, and adjustable perforated slides 3, 3."

No. 23,900. Dexter H. Chamberlain, of West Roxburg, Mass., for an "Improvement in machines for splitting leather."

"I claim inclosing the cutting blade within an external casing throughout its entire length."

No. 23,901. Robt. I. Colvin, of Lancaster, Pa., for an "Improvement in convertible carriage shafts."

"What I claim, is, 1, the attachment of removable shafts, by means of the adjustable braces I, I, and the hinged caps Z, Z, of the pole crab N. 2, the curved or segment bars A, forming a transverse horizontal slot, in which the shafts are supported at their rear end, both when separated in the ordinary way, and when united together as a pole. 3, the hinged and pivoted thill attachment for accommodating the width of the same to the different positions of the clips upon the axle."

No. 23,902. NATHAN COPE and WM. HODGSON, of Cincinnati, Ohio, for an "Improvement in butterfly valves."

"We claim the arrangement and combination of the curved slotted plate E, valve box B, stops F, F¹, and slotted valve lever G."

No. 23,903. JAMES B. CRIST, of Evansville, Ind., for an "Improvement in grain separators."

"I claim the arrangement of the blast passage G, fan B¹, screen I, and riddle K, with chute L attached, placed within the case or box A, and in relation with the spouts or discharge passages *d*, *e*, *f*, N."

No. 23,904. EDWD. DAVIDSON, of Batesville, Ark., for an "Improvement in ploughs."

"I claim the combination of the bar *e*, stirrup *c*, rod *f*, with the adjustable supplemental land side F, share G, and the stationary share E, and land side C."

No. 23,905. HIRAM T. DEWEY, of Sandusky, O., for an "Improved fence post."

"I claim the combination of the ribbed post A, and horizontal flange plate C, when jointed to each other."

No. 23,906. WM. C. DOSS, of Lavaca, Texas, for an "Improvement in cultivators."

"I claim the arrangement on the triangular frame A, A, B, of shears J, K, with mould boards that may be taken off at pleasure, scraper N, and cultivators L, M."

No. 23,907. B. WELLS DUNKLEE, of Boston, Mass., for an "Improvement in furnaces for heating buildings."

"I claim combining with the fire pot and its dome one or more gas circulating pipes *g*, arranged with respect to the same, and in the hot-air chamber of the case E. I also claim the arrangement of the hot-air discharge pipes *c*, *c*, and the wings *d* of the arch of the fire dome. I also claim, in connection with air register to the front of the ash pit, an air pipe *v*, carried through the hot-air chamber, and into the rear part of the ash pit. I also claim the combination and arrangement of the hoe valve *p*, and the plate or door *r*, with the flue *n*, the pipe H, and the opening *t*."

No. 23,908. LEWIS EIKENBERRY, of Easton, Pa., for an "Improved method of compensating for expansion and contraction of metallic fences."

"What I claim is, the method of making provision for expansion and contraction in an iron lattice or other open-work fence."

No. 23,909. STEPHEN ELLIOTT, of Richmond, Ind., for an "Improvement in straw cutters."

"I claim the arrangement of boards E, cross piece F, rods I and G, and lever H, with boards B and D, canvas C, rods R and S, and lever Q."

No. 23,910. ANDREW ELLISON, of Boston, Mass., for an "Improved smoothing iron."

"I claim attaching the handle plate A to the separate heater or block B by means of the guide *b* and slot D, the angular recess E, and lips *c*, *c*, and the latching devices *a*, F."

No. 23,911. SAML. V. ESSICK, of Moultrie, Ohio, for an "Improvement in machines for loading hay."

"What I claim is, the adjustable frame (*d*), the rake (*j*), the rakers (*h*), and (*m*), and the conveyors (*g*) and (*l*)."

No. 23,912. JOHN L. FIELD, of Syracuse, N. Y., for an "Improved method of strapping wood in bending."

"I claim the method for connecting metallic straps for bending timber, when the parts are so arranged as to operate in connection with the forming frames."

No. 23,913. DAVID S. FISHER, of Mauckport, Ind., for an "Improvement in seed planters."

"I claim the combination and arrangement of the spring hoe J, adjustable spring roller I, with the seeding and regulating apparatus."

No. 23,914. J. H. FRENCH, of Syracuse, N. Y., for an "Improvement in harrows."

"What I claim is, 1st, the combination and arrangement of three triangular harrows, in such a manner as to form one triple triangular harrow, by connecting the angles with flexible joints or couplings, which admit of the free vibration of the parts, and their ready adaptation to the inequalities of the ground. 2nd, I also claim constructing triangular harrows of metallic bars or flat strips of metal, by folding over the same at the angles, in such a manner that the draught strain of the teeth upon one side shall counteract that upon the other, and forming the couplings at the same operation, by folding in links or hooks at the angles, no bolts being required to secure them, in consequence of the self-bracing of the parts."

No. 23,915. R. B. GILBERT, of Sutherland Springs, Texas, for an "Improvement in corn planters."

"I claim the arrangement of the shear *a*, coverers *i*, *i*, conductor *c*, cylinder *d*, and hopper *e*, wheel *g*, and scraper *p*, for joint operation."

No. 23,916. RICHD. GORNALL, of Baltimore, Md., for an "Improvement in mail bags."

"I claim the employment with a mail bag, constructed with a socket G, and furnished with a lock or other safe fastening of the plates B, B, which terminate in nearly complete tubes D, D, and with the jointed rod or bolt H, provided with a hasp or other similar attachment."

No. 23,917. HENRY GORTNER, of Irville, Ohio, for an "Improvement in rat traps."

"I claim the rotating disks C, C, connected by the plates *b*, *b*, in connection with the treadle platform C plates *c*, *c*, and bar *d*, and the supplemental platform D, the whole being fitted to the box A."

No. 23,718. BENJN. T. HARRIS, of Brooklyn, N.Y., for an "Improved mechanism by which employees register their time."

"What I claim is, first, the manner of mounting the cylinder D on the spring barrel *f* and with the connecting coupling 3. Second, I claim the binding plate *d*, fitted and acting to retain the ends of the paper to the cylinder D. Third, I claim the arrangement and manner of constructing the slides *i*, *i*, and impression points *m*, *m*. Fourth, I claim the rollers *l*, and their pawls *o* and *p*, in connection with the slide *i* and openings (*k*) in the front plate (*g*)."

No. 23,719. SAML. E. HARTWELL, of New York, N.Y., for an "Improvement in corn planters."

"I claim the arrangement of the slide *d*, shoe *c*, and hoe *i* connected, and acting in the manner and for the purposes substantially as specified."

No. 23,720. SAML. HENRY, of Chenoa, Ill., for an "Improvement in seeding machines."

"I claim the slide bar or seed distributor G, with slide H, fitted therein, and placed relatively with the seed box F."

No. 23,721. MOSES G. HUBBARD, of Penn., Yan., N.Y., for an "Improvement in harvesting machines."

"I claim the conformation of the intermediate fingers of a reaping and mowing machine, having a conical form with a straight outline from point to heel, so as to present a straight gradual taper on the underside as well as above. I also claim the safety flanch 's,' for securing the pitman connection."

No. 23,722. CHAS. W. KENNEDY and RICHD. T. BROWN, of Williamsburgh, N.Y., for an "Improvement in machines for breaking coal."

"We claim the arrangement and combination of the polygonal spiked drum E, spiked crushing plate H, and spiked clearing plate I."

No. 23,923. LEWIS KIRK, of Reading, Pa., for an "Improvement in R. R. car brakes."

"What I claim as new is, 1st, the arrangement of the hand wheel J and the rod K, in combination with the pump B, so that by depressing the rod K the pump is placed in working order, and that the same can be operated by means of the hand wheel J¹. 2nd, the arrangement of the spring catch *k*, which is attached to the piston rod d^3 of one of the pump cylinders in combination with the bell crank *l*, or its equivalent, which is operated by means of an eccentric m^1. 3rd,

arranging the coupling M on a rod p in such relation to the spring catch k and to the cock E that by exercising a pressure on the coupling the rod p is turned sufficiently to open the cock E, and to depress the spring catch k."

No. 23,924. Thos. J. Lamdin, of Baltimore, Md., for an "Improvement in mail bags."

"I claim the placing of the staples or buckles on the flap of the bag or pouch, so that when the flap is turned down said staples or buckles will pass through the grummets. I also claim the manner of forming the seams of the bag or pouch so that they cannot be cut open and resewn from the outside of the bag without instant detection on looking at the seam, as its whole character must be changed in any such attempt or effort."

No. 23,925. Jabes Lewis, of New Orleans, La., for an "Improved apparatus for conducting water to cisterns."

"I claim making the change in openings from the box A, or its equivalent, by the employment of a weight containing water supplied from a roof, when the weight can lose the water it contained, and thus reduce its force of gravity to allow another change to be made, by which the water is conducted separate directions from and to the cistern."

No. 23,926. Chas. L. Linnell, of Truro, Mass, for an "Improved jib boom for vessels."

"I claim the application of the after jib boom to the bowsprit by means not only of the slide rod applied to the bowsprit but the slider connected with the boom."

No. 23,927. Benjn. Tolman, of Pembroke, Mass., assignor to himself and A. T. Ramsdell, of same place, for an "Improved spoke shave."

"What I claim is an improved spoke connected with an adjustable knife and an adjustable throat gauge, arranged and applied to the stock, and so as to move with respect to one another."

No. 23,928. Wm. S. Loughborough, of Rochester, N. Y., for an "Improved bench plane."

"What I claim as my invention, is, 1st, the combination of the screw 2 (which takes effect in the projection R), spring or yielding cap C, bit B, and screw 1, for the purpose of varying the cut of the bit, and at the same time and proportionally the space of the throat, the base of the bit B being the fulcrum upon which it swings when said changes are made, the said combination being applicable for the adjustment of the bit in all kinds of planes. 2nd, the adjustable parallel fence F constructed with diagonal slots D for the set screws Y, said fence being applicable to match planes, and also the stop P with the slot running up diagonally from the face, the set screw K and the guide pin U keeping it in position, said stop being applicable to panel plows and dadoes."

No. 23,929. Saml. D. Lount, of Summerville, Mich., for an "Improved rotary engine."

"I claim the arrangement and combination of the rotating head I, provided with sliding pistons, and placed eccentrically within the case A, the saddles M applied to the pistons, and the valves N, O."

No. 23,930. Robt. Marcher, of New York, N. Y., for an "Apparatus for laying metal leaf on mouldings, &c."

"What I claim is, the method of laying leaf metal on mouldings and other surfaces by means of a roller. And I also claim operating the roller in laying leaf metal on surfaces by the force of capillary attraction. And I also claim the combination of the rails, the table for holding the book of leaf metal, and the means for holding the article to be gilded or silvered, or the equivalents of the said elements, in combination with the roller. And, finally, I claim the combination of the roller and rails, or equivalent guide ways, with the rebate or equivalent gauge."

No. 23,931. T. Mayhew, of Poughkeepsie, N. Y., for an "Improvement in railroad switch."

"What I claim is, the employment or use of the adjustable platform E, in connection with the switch bar B, and gearing d, h^{1}, h^{11}, h^{111}, h^{1111}, springs c, c, and stops i, g."

No. 23,932. Wm. McAllister, of South Reading, Mass., for an "Improvement in windmills."

"What I claim is, the series of narrow sails 1, 2, 3, 4, attached to vertically sliding rods a, b, c, d, and united by means of the cords s, s, and operating in combination with the adjusting ropes I."

No. 23,933. James C. Molthrup, of Bucyrus, Ohio, for an "Improvement in ploughs."

"What I claim is, giving the beam B, B^{1}, longitudinal and vertical motion by means of the bearing plates d^{11}, slots c, c^{1}, short rear bolt b, and long vibrating front bolt f."

No. 23,934. James Monach, of Rahway, N. J., for an "Improvement in the manufacture of felt hats."

"I claim the corrugation of the brims of felt or soft hats, by the employment of dies on both sides of the brim, whereby the corrugation is attained without stretching the brim, both the surfaces being finished at one operation."

No. 23,935. Eli Mosher, of Flushing, Mich., for an "Improvement in plant protectors."

"I claim the arrangement and combination of the folding sides (a, a, a^{1}, a^{11}), cover B, and fastening cord (b)."

No. 23,936. James Mulligan, of New York, N.Y., for an "Improvement in roasters."

"I claim the detachable journal bearings b, b, constructed so as to be clamped on to the edges of the openings in the stove or range and receive the spit c."

No. 23,937. John Munson, of San Jose, Cal., for an "Improvement in pump boxes."

"I claim constructing the pump boxes of the rings a, bands e, provided with the uprights g, g, and the traverse plates h, when the boxes thus constructed are provided with the valves l fitted thereon. I further claim securing the lower box C in the bottom of the cylinder A, by means of the traverse plate h on said box and flanch $a\times$, secured to the inner side of the cylinder."

No. 23,938. Williamson Nichols, of Floyd County, Geo., for an "Improvement in ploughs."

"What I claim is, the arrangement of the forked beam G, segmental head F, holes g, bolts 4 and 5, clevis f, stock H, handle I, rivets c, and holes 1, 2, 3."

No. 23,939. R. B. Norvell, of Huntsville, Ala., for an "Improvement in bridles."

"I claim the cord F, attached to a bridle or halter, by passing the same through the bit rings, or halter rings, and over the pulleys c, c^{1}, or their equivalents, and under the throat of a horse, or other animal."

No. 23,940. James Nuttall, of New Orleans, La., for an "Improvement in iron ties for cotton bales."

"What I claim is, the combination of the plate s, and movable clasp c, when made use of in confining the hooks a and b, as a fastening for iron ties for cotton bales."

No. 23,941. Henry A. Nutting, of South Amherst, Mass., for an "Improved clothes frame."

"What I claim is a clothes frame, composed substantially of the rod or stem c, the two hubs A, B, and the two sets of arms D, E.

No. 23,942. Isaac B. Palamountain, of Tarboro', N.C., for an "Improvement in cultivators."

"What I claim is, the arrangement of the beam A, stock B, centre bar B, standard F, wings G, G, and J, share D, and seat H, for joint operation."

No. 23,943. Geo. S. Reynolds, of East Bethel, Vt., for an "Improvement in horse hay rakes."

"I claim the arrangement of the boxes k, arch arm b, elastic spring g, shoe d, strap t, frame r, and strap l."

No. 23,944. Augustus Rebetey, of Norwich, Conn., for an "Improvement in tools for manufacture of fire-arms."

"I claim the use of a crank shaft A, B, C, to carry a cutter I, such crank shaft suspended at the centres of an engine, lathe, or any similar machine, and receiving its motion from the counter shaft of such lathe or similar machine, for the purpose of cutting an eccentric-shaped slot in the barrel of a pistol or anything else."

No. 23,945. SYLVANUS RICHARDSON, of Jericho, Vt., for an "Improvement in water wheels."

"What I claim is, the construction and arrangement of the shutes formed by irons *g* in Figure 3, and irons *i* in Figure 5, and the arrangement of openings in plate shown in Figure 3, marked *f*, and corresponding openings in plate shown in Figure 5, also marked *f*, and the arrangement of plate *c*, *c*, and wheel *e*, *e*, *e*, *e*, and case *a*, *a*, and draft tube *d*, and the combination of the same."

No. 23,946. JOHN W. RINEHART, of Lexington, Mo., for an "Improvement in hemp brakes."

"I claim the particular manner of operating the beater frame B, to wit, by means of the lever *j*, links *k*, *k*, lever *l*, shaft C, arm *m*, connecting rod *n*, and crank *o*."

No. 23,947. S. S. RITTER, of Philadelphia, Pa., for an "Improvement in hernial trusses."

"I claim the construction of a surgical truss having a short spring, with one or more plates of metal, extending in front about half around the body and held by a strap or straps, forming the other half of the girdle, when the said spring is curved, as shown in Fig. 7, for the purpose of making a more agreeable pressure upon the hernia, and for fitting the ends of the spring better to the hips, thus rendering the truss more comfortable to the patient. 2, I claim the above described pad (Figs. 3 and 4), having a central prominence surrounded by a groove and ridge, when the face of said pad is made in one piece."

No. 23,948. EDWD. A. L. ROBERTS, and WM. J. DEMOREST, of New York, N.Y., for an "Improvement in apparatus for vulcanizing rubber."

"I claim the general arrangement of the stove, boiler, and vulcanizing chamber."

No. 23,949. DAVID B. ROGERS, of Pittsburgh, Pa., for an "Improvement in grain shovels."

"What I claim, is, the so bending a plate of iron into the shape of a shovel as to form a socket for the handle out of the same piece of iron."

No. 23,950. S. E. ROOT, of Bristol, Conn., for an "Improved clock dial."

"I claim as a new and useful improvement, the combination of a clock dial B, metallic back A, frame C, as a new manufacture specifically as and for the purpose described."

No. 23,951. STEPHEN P. RUGGLES, of Boston, Mass., for an "Improvement in printing presses."

"What I claim as new, is, first, the combination of two screws having different sized threads and operating together substantially as described, to give a greater motion to a platen, or its equivalent, at one time, and more power at another time, as may be desired. I also claim connecting two such screws together, and to the lever or bar that actuates them, by a strong helical spring, that by being wound up becomes a clamp, so as to put the two screws in action, one after the other, substantially as herein described. I also claim running out the bed of the press on inclined ways for the purpose of increasing the distance between the bed and platen, which makes a better entrance for the frisket, blankets, sheet, form, &c. by affording more space when they are being run under the platen, as described."

No. 23,952. JACOB RUPERTUS, of Philadelphia, Pa., for an "Improvement in automatic primer for fire-arms."

"What I claim, is, 1st, the feeding slide lever B, applied in combination with the hammer, to constitute a portion of the thumb-piece thereof, and with an interposed spring *l*, substantially as herein described. 2nd, constructing and applying the feeding piston *q*, to roll within the magazine, substantially as and for the purpose herein set forth. 3d, attaching the feeding piston *q*, which drives the priming forward in the magazine, to a spring or flexible driver, which winds on and off a spring barrel, substantially as and for the purpose herein described."

No. 23,953. JOHN SELSER, of Williamsport, Pa., for an "Improvement in pumps."

"What I claim as new, is, first, draining the standing pipe D, and relieving the air chamber C from pressure, by allowing the water to escape upwa·d through the cylinder B whenever the plunger rod E is sufficiently depressed, thereby draining the pipe without draining the pump itself, substantially in the manner herein set forth. Second, the splash plate G, with its aperture *o*, when used in connection with the vertical termination D^1, of the discharge pipe, substantially as and for the purpose within set forth."

No. 23,954. THEODORE SHARP, of Bloomington, Ill., for an "Improvement in shafting for endless chain horse powers."

"What I claim as my invention, is, the sliding shaft A, A, reels with slotted or mortised hubs R, R, constructed and operating in the manner and for the purpose substantially as described."

No. 23,955. DAVID M. SMITH, of Springfield, Vt., for an "Improvement in seed planters."

"I claim the combination of the following devices for operating the dropping slide, viz., the spring *k*, the rack C, the pinion D, the rack lifter, the groove *r*, of the rack, and the latch *u*, arranged substantially as specified. I also claim the application of the rack lifter *m* to the rack, so as to be adjustable thereon, in the manner and for the purpose as set forth. I also claim combining with the rack C and apparatus carried by it the latch elevator *y*, for moving the rack out of gear with the pinion, and holding the rack from slipping on being thrown backward, the object being not only to prepare the rack for causing the machine to plant the first dropping of seed in the right place, but to hold the rack out of gear with the pinion while the machine is being moved over the ground and it may not be desirable to have it plant seed."

No. 23,956. MATTHEW SMITH, of Pittsburgh, Pa., for an "Improvement in rotary steam engines."

"What I claim is, the combination and arrangement of a revolving cylinder, steam chest, cam yoke, supply and exhaust passages, with a stationary cam, supply and exhaust chambers, when arranged, combined, and operated as herein described, and for the purposes set forth."

No. 23,957. CHAS. SPRING and ANDREW SPRING, of Boston, Mass., for an "Improvement in lathes for turning irregular forms."

"What we claim is, the combination of a griping chuck, by which an article can be so held by one end as to present the other free to be operated upon, with a rest preceding the cutting tool, when it is combined with a guide cam, or its equivalent, which modifies the movement of the cutting tool, all operating together for the purpose set forth."

No. 23,958. GEO. A. STONE, of Roxbury, Mass., for an "Improved apparatus for superheating steam."

"I claim, as of my own invention, a steam jet, or the equivalent thereof, located substantially in the position and serving the purpose specified, in combination with a superheating apparatus, which is heated by a portion of the gaseous products of combustion, and is otherwise substantially the same as herein-before set forth."

No. 23,959. GEO. TATLOCK, of Salem, Ind., for an "Improvement in raking attachment for harvesting machines."

"I claim operating the rake head D, which is pivoted to the sliding bar C, through the medium of the rotating shaft *r*, connecting rod *p*, rock shaft *l*, connected respectively with the rod *p*, and sliding box C, by the arms *k*, *o*, in connection with the arm E, attached to the rake head, the loop or guide *d* attached to the arm E, and the bars or arms *g*, *i*, attached to the platform; the whole being arranged substantially as and for the purpose set forth."

No. 23,960. H. L. THISTLE, of New York, N. Y., for an "Improved bureau bedstead."

"What I claim as my invention is, combining the bedstead frame with the wardrobe or other case, by means of the hinged links and movable slides, substantially as described, whereby the bed can be let down to a lower level than by any other construction before known, while at the same time it can be let down by a single movement, and within a space no longer than the bedstead, and without the necessity of first drawing out part of the structure from the wall, or making joints in the side rails or pieces, the hinged links or slides giving to the structure all the foregoing advantages, as set forth. And I also claim, in combination with the bedstead frame connected with the case by the hinged links and slides, the weighting of the head end of the frame to balance the weight of the foot end when lifting it up, and thereby facilitate the manipulation, substantially as described. And I also claim forming the support for the foot end of the bedstead frame, by a hinged panel, substantially as described, so that the said support, when the bed is thrown up, shall form part of the front of the wardrobe, or other piece of furniture, as set forth."

No. 23,961. Saml. Thomas, of Burnett, Wis., for an "Improvement in harvesting machines."

"What I claim as my invention is, the 'false pole' K, B, with its attached sliding gage E, C, which may be adjusted at pleasure, so as to prevent side draft and pressure upon the near horse, in the manner and for the purpose specified."

No. 23,962. Geo. W. Toleman, of Augusta, Ky., for an "Improvement in rotary harrows."

"What I claim is, the arrangement of the frame A, shaft 3, iron circle 1, roller 2, rods B, B', C, and rod or hook 4, operating conjointly, as set forth for the purposes specified."

No. 23,963. John Van and Henry V. Barringer, of Cincinnati, O., for an "Improvement in stoves."

"What we claim as new is, the swinging grated door or hearth h, and sliding and swinging register g, in combination with the supporting legs r, r, and stove A, arranged and operating substantially, as and for the purposes herein set forth."

No. 23,964. Edwd. Van Camp, of Readington, N.J., for an "Improvement in hill-side ploughs."

"But what I do claim is, making the share, the landside, and the landside brace of hill-side ploughs, each in one piece, and uniting them together to the mould boards and beam, in the manner and for the purpose set forth, thus making a cheap, strong, and efficient plough for hill-side ploughing."

No. 23,965. James Vaughn, of Magnolia, Ill., for an "Improvement in grain separators."

"What I claim is, the arrangement and combination of the semi-cylindrical hopper F, having a depression (b) in its centre, with the screen E, buckets (d), spout D, fan J, and spout I, as and for the purpose herein shown and described."

No. 23,966. Wm. Vine, of Hartford, Conn., for an "Improved meat slicer."

"What I claim is, the beveled lip T, and the pendant G, for the purpose described, in combination with the other parts of the dried-meat slicer, substantially as herein set forth."

No. 23,967. Thos. K. Webster, of Lawrence, Mass., for an "Improved lock."

"I claim the guard or fender E, as described in the Specification, and for the purpose therein described."

No. 23,968. Leonardo Westbrook, of New York, N.Y., for an "Improved churn."

"What I claim is, the use of the projecting rim X, X, X, and the revolving disc C working over the same, in combination with the fixed and revolving radial dashers, and with or without the regulating thumb screw S; all constructed and operating substantially as described and for the purposes herein set forth."

No. 23,969. Milton White, Howard White, Henry T. White, and Joseph White, of Philadelphia, Pa., for an "Improved ice-pick."

"What we claim as our invention is, the combination of the ball A and tube B, B, sliding upon the stem C, C, in such a manner that the blow may be struck upon the head of the stem, substantially as above described."

No. 23,970. John Geo. Widmann, of New York, N.Y., for an "Improvement in stoves."

"What I claim as new is, the arrangement and combination of the gas tubes (d) with the cylinder D, and fire openings (b), so that the gases which arise from the heating of the coal will be compelled to pass down into the fire, as herein shown and described."

No. 23,971. Hosea Willard and Robt. Ross, of Vergennes, Vt., for an "Improvement in harvesting machines."

"We claim, 1, the arrangement and combination of the hinged bar J with the lever I, substantially as and for the purpose herein shown and described. 2, the arrangement and combination of the adjustable spring (b^1), bar D, adjustable rod (i^1), spring (h^1), and finger bar G, as and for the purpose herein shown and described."

No. 23,972. Wm. H. Wilson, of Denton, Md., for an "Improvement in harvesting machines."

"What I claim as new is, 1stly, the combination of the vibrating sector A, rack p, lattice frame C, and carriage j, with the beam B, or its equivalent, and the rake D, the several parts being arranged substantially as described, for the purpose set forth. 2ndly, in combination with the rake D, having its center driven backward and forward over the platform, the swiveling plate f, ratchet r, and pawl n^1, and adjustable shifting stop g^4, or its equivalent, whereby the rake is turned upon its center, and caused to sweep the grain off, as herein before specified. 3dly, in combination with a rake D, having center driven back and forth over the platform, as specified, the guiding plate w, and rolls p^1, p^{11}, or their equivalents, whereby the rake is thrown back into the proper position to sweep across the platform, after having discharged a sheaf, as herein-before described. 4thly, the combination of the rod M with the rod S, arm r, cam y, and spring N, the whole arranged and operating as and for the purpose set forth. 5thly, the stop n, arranged as described, for the purpose set forth."

No. 23,973. Wm. E. Worthen, of New York, N. Y., for an "Improvement in combined metallic street kerb and gutter."

"Having thus described my invention, I claim as of my own invention the compound metallic curb and gutter, constructed substantially in the manner herein-before specified, whereby advantages substantially such as are herein set forth are attained."

No. 23,974. T. J. De Yampert, of Shohola, Pa., for an "Improvement in ploughs."

"What I claim is, first, a revolving cone having under-cut or overhanging curved flanges or wings that extend entirely from the base to the point of the cone, so that it will revolve upon its shaft or journal by the resistance of the earth alone against it, and without being driven by other forces, as herein described. I also claim, in combination with a cone furnished with spiral under-cut flanges, and revolving by the resistance of the earth against it, the mould board and land side, for turning over the loosened earth and directing the plough in its path, substantially as described."

No. 23,975. G. G. Belcher, of Worcester, Mass., assignor to himself and Jos. S. Hill, of same place, for an "Improved pruning knife."

"What I claim as new, is, 1, arranging the blade of a knife, in such a manner that it opens and closes, by turning one or both parts of the handle, substantially as specified. 2, the pins i, i^1, on the blade B, arranged in combination with the slots h in the plates a, a^1, of the handle, for the purpose of operating the blade, and keeping the same rigid when it is opened as well as when it is closed, substantially as herein set forth. 3, the slide C, or its equivalent, arranged in combination with the eye d, for the purpose of securing the two parts of the handle together, substantially in the manner described."

No. 23,976. John B. Collen, of Philadelphia, Pa., assignor to himself and Pascal Yearsley, of same place, for an "Improved horse shoe machine."

"I claim, and desire to secure by Letters Patent, first, bending the heated bar of iron to the requisite form by applying it to a revolving former of the shape of the inside of the shoe, when the said former is arranged to hold the bent iron while it is acted upon by the dies, as herein set forth. Second, the combination of the revolving former q, with the cutter x, when the latter is so arranged in respect to the former that the edge of the cutter shall coincide, or nearly coincide, with the circular path traversed by the outer edge of the former, and when the cutter is hung to the movable bar y, or its equivalent, as set forth and for the purpose specified. Thirdly, the die N, the spindle Q, its former q, and the sleeve S, in combination with the counter die T on the spindle u, when the whole of the parts are arranged in respect to each other for joint action, substantially as and for the purpose specified."

No. 23,977. James D. Black, of Boston, Mass., assignor to himself and Ezekiel Hallet, jr., of same place, for an "Improvement in boot-crimping machines."

"What I claim as my invention in machines for crimping boot legs, in which the 'hitch on' is raised by the hand of the operator, is, pivoting the device, by which the 'hitch on' is raised to a spring block, or its equivalent, for the purpose set forth. 2nd, I claim the peculiar construction of 'hitch on' herein described, the movable jaws p being temporarily closed upon both sides by a spring r, so that

they may be separately opened, as set forth, for the insertion of the leather, and may be permanently closed by a single screw, as described."

No. 23,978. SIMEON S. DODGE, of Sunapee, N. H., assignor to himself and Edmund Burke, of Newport, N. H., for an "Improved hand plane."

"What I claim is, first, the curved adjustable cap iron D' constructed and operating substantially as above described. Second, the combination of the adjustable cap iron D, with the bolt H, the set screws G, G, the thumb screw E, and the break iron C, constructed and operating substantially as above described."

No. 23,979. WM. GRIFFITHS, of Philadelphia, Pa., assignor to himself and Joseph H. Lambert, of same place, for an "Improvement in knapsacks."

"What I claim is, a military knapsack, having the usual frame or case made and adapted thereto, so as to be convertible, substantially as and for the purposes described, as an improved article of manufacture."

No. 23,980. WM. H. KING, of Charleston, Ill., assignor to himself and Nelson Colson, of same place, for an "Improvement in corn planters."

"What I claim is, 1st, in combination with the cams L and the arm M, I claim the arrangement of the rods *e*, in such relation to the seed cells *c*, that they push out the corn contained in the same, substantially as described. 2nd, the arrangement of the marker *g*, in combination with scraper *h*, so that the same never fails to make a clear mark in the track of the driving wheel, substantially in the manner set forth."

No. 23,981. CHAS. LEARNED, of Indianapolis, Ind., assignor to himself and Geo. P. Stevens, of same place, for an "Improvement in seed drills."

"What I claim is the guard or series of straps K, in combination with the toothed roller G, and elastic guard J, when operated in connection with the roller H, and agitator I."

No. 23,982. SAML. LEE, of Taunton, Mass., assignor to Chas. S. Pomeroy, of same place, for an "Improvement in making steels for sharpening knives."

"What I claim is the combination of these devices, so that, by their continued action, they shall produce a steel with sharp ribs or edges, in the direction of its length, substantially as set forth."

No. 23,983. HENRY G. LEONARD, of Taunton, Mass., assignor to Lemuel M. Leonard, of same place, for an "Improvement in cooking stoves."

"I claim so constructing and arranging one or more of the oven plates of the stove, that it or they can be removed, and the flue or flues cleaned, and the plates replaced, substantially as described, without loosening or separating the plates which form the outside of the stove, I also claim making one or more of the interior flue plates, so that it can be removed and the flue cleaned, and the plate replaced, substantially as described, without loosening or separating the plates which form the outside of the stove."

No. 23,984. JAMES S. MCCURDY, of Brooklyn N.Y., assignor to Elias Howe, jr., of same place, for an "Improvement in single-thread stitches."

"What I claim, is, a single thread interloped stitch, in which each successive loop is encircled by a tight coil of the thread of the preceding loop, substantially as described."

No. 23,985. DANIEL P. MEALEY, of Washington, D. C., assignor to himself and A. E. H. Johnson, of same place, for an "Improved device for suspending and liberating ships' boats."

"Having thus described my improvements, I claim the hanger, constructed with a seat or seats, for the ring of the boat to rest upon, in combination with the seat formed in the tumbler, in such manner that the seat or seats of the hanger shall coincide with the seat in the tumbler, that a large proportion of the weight and strain may be supported by the hanger, which increases the power of the device to resist strains, and facilitates the unlatching of the tumbler, substantially as described. I claim also, in combination with the above, the arrangement of the opening E in the tumbler, in combination with the seats *c*, *c*, and that portion *m* of the hanger which rises above and overhangs them, in such manner that when the seats of the hanger and tumbler coincide, the mouth of said opening will pass and be inclosed by the hanger, in the manner and for the purposes described. I also claim, in combination with the tumbler and hanger, arranged as above described, extending the legs of the hanger below the range of motion of the opening in the tumbler, so as to form a cut off to the passage of the ring, and thus prevent it from being carried round with the motion of the tumbler, substantially as described. I also claim, in combination with a boat detacher, making a recess or shoulder *f* in the tumbler, in combination with a snug or projection *g*, on the dead eye, whereby the connection of the ring of the boat with the tumbler may be made with one hand, when necessary, substantially as described."

No. 23,986. JAMES O. MERRILL, of Chichester, N. H., assignor to Wm. A. Swain, of same place, for an "Improved churn."

"What I claim is, the arrangement of the oscillating lever L and its weight W, with the vibrating shaft M, the vibrating lever E, the auxiliary levers F, F^1, and the alternate reciprocating dasher arms G, G^1, with their dasher N, N^1, constructed and operating substantially as above set forth, by which the oscillating power of the pendulum is applied to the process of churning butter."

No. 23,987. JAMES W. MUNROE, of Fall River, Mass., assignor to John Southworth and Wm. R. McKenzie, of same place, for an "Improvement in factitious enameled leather."

"What I do claim as my invention, and desire to secure by Letters Patent as a new article of manufacture, is, the within-described artificial leather composed of two or more thicknesses of cloth united by cement and varnish, as set forth."

No. 23,988. JONATHAN B. PARVIN, of Heightstown, N. J., assignor to himself and Elias Stratton, of same place, for an "Improvement in machines for digging and gathering potatoes."

"What I claim is, the combination of the weed cutter D and roller C when mounted on a swivel, and applied to a potato digger, substantially in the manner and for the purpose herein described. I also claim hinging the frame that carries the plow and the endless apron K on the shaft *c*, when used in combination with the lever, links, and rods, by which the operator from his seat can raise up, lower, or hold up the plow and apron, substantially as described. I also claim the combination of the adjustable endless apron K, horizontal and vertically vibrating grate Q, and the elevating apparatus, substantially as described."

No. 23,989. GEO. W. RANDALL, of Boston, Mass., assignor to Reuben J. Todd, of same place, for an "Improved basin cock."

"I claim the wash basin cock or faucet as made with cold and hot water inlet passages *d*, *e*, and the column passage *h*, arranged in the socket C and column A, and with respect to the discharging spout B, substantially as described, in order to enable a person, by turning the movable part or parts, to discharge either cold or hot water, or a mixture of the same, from the faucet, or to close off both hot and cold water induction passages, as circumstances may require."

No. 23,990. AUGUSTUS REBETEY, of Norwich, Conn., assignor to the Manhattan Fire-arms Manufacturing Company, of New York, N. Y., for an "Improvement in tools for manufacturing pistols."

"What I claim is, the use of a frame, constructed as herein described, having a profile in one plate of it, to shape and finish a corresponding recess in the side plate of a pistol by means of a revolving cutter governed by the outlines of said profile."

No. 23,991. FRIEDRICH SCHUTTE, of Philadelphia, Pa., assignor to himself and Philip P. Weis, of same place, for "Improved rotary cutters and mode of operating them for mouldings."

"I claim a revolving cutter with any convenient number of double cutting edges of the form of the tongue-groove bead or hollows to be cut, one cutting edge being the reverse of the other in each pair, so that one cutting edge only of each pair shall have a cutting effect when the cutter revolves in one direction, the other edge to cut when the cutter revolves in a contrary direction, and so that one cutting edge of each

pair shall act as a guard to prevent the adjacent edge from penetrating too deep into the wood, when the said cutter with double cutting edges, thus constructed, is secured to a spindle capable of having the direction of its rotation readily reversed, as and for the purpose set forth."

No. 23,992. Geo. F. Lombard, of New Orleans, La., for an "Improvement in steam engines."—Patented in England, 10th October, 1857.

"What I claim is, 1st, the relative arrangement of two cylinders, four pistons, two rocking beams, two steam chests with valves, and the specified connections which combine and operate the same, in the manner and for the purpose herein set forth. 2nd, the application of the exhaust steam of the engine to the crank or eccentric shaft, through a fly-wheel, constructed and combined with the engine and crank shaft, substantially as and for the purposes set forth."

No. 93,993. James A. Whipple, of Boston, Mass., assignor to James Whipple and Benjn. F. Cooke, of same place, for an "Improved steam engine."

"What I claim is, the above-described intermittent rotary engine, consisting of the cylinder F, the heads *l*, and pistons *h*, *h*[1], operating in the manner substantially as described."

No. 23,994. Cornelia H. Williams, of Williamsburg, N. Y., (administratrix of the estate of Augustus Williams, deceased), assignor to Anthony Pollak, of Washington, D. C., assignor to A. N. Clark, of Beverley, Mass., for an "Improved steam and water gauge."

"What is claimed as the invention of the said deceased is, firstly, combining the vessel separate and distinct from, but connected to the boiler by means of two pipes, as described, containing a float, having an indicator or pointer attached thereto, with the transparent tube or steam chamber, when said parts are constructed and arranged in relation to each other, to operate in the manner and for the purposes substantially as set forth herein. Secondly, the general arrangement of the instrument for forming an alarm water gauge, by combining with the indicator water gauge, constructed as described, a whistle attached to a separate chamber, containing a valve arranged to be operated by the float, so as to admit steam to said whistle, to give alarm, when required, substantially as set forth."

No. 23,830. Albert Albertson, of New York, N. Y., assignor to Curtis C. Bean, of said New York, for an "Improved cork machine."

"I claim, 1st, the stationary cylinder D, *d*, or any substantially equivalent device when employed to gripe a cork by its periphery, so as to effectually prevent its rotation, while being cut by a rotary cylindrical cutter. 2nd, the feed rollers F, H, H, (with or without the band G), arranged and adapted to rotate a cork by friction upon its periphery, while under the action of a longitudinal cutter."

Re-issues.

Wm. H. Elliot, of Plattsburgh, N. Y., for an "Improvement in coffee-pots."—Patented 25th January, 1859.—Re-issued 10th May, 1859.

"I claim, first, the combination of boiler A, still worm condensor *b*, conducting plate *g*, and the external opening of the still worm at *g*[1], when these devices are so arranged in relation to each other that an opening to the external air shall be provided for the non-condensable gases, while the condensable vapors are reduced to a liquid without coming in contact with the condenser water, and there turned by conductors into the boiler. Second, the arrangement of the joint *c* below the spout, so that no vapor can pass through the spout without first passing the joint, as set forth. Third, the employment of conductors in combination with the condenser, for the purpose of filling the water joint, or keeping it full, as and for the purpose specified."

Jeremiah W. Mulley, of Amsterdam, N. Y., for an "Improvement in mowing and reaping machines."—Patented 16th December, 1856.—Re-issued 10th May, 1859.

"I claim, 1st, connecting the frame of the platform with the frame carrying the driver and raker's seat, in the manner substantially as set forth; namely, securing the relative position of the two frames by means of the brace J in the rear, and the laterally inclined draw shoe in front, when the above parts are constructed and arranged as described. I claim, secondly, the shoe K, in combination with the tongue attachment in front thereof, the said shoe being constructed and arranged, substantially as described, to perform the functions as set forth herein. I claim, thirdly, the rod 4 and the rails 5, connected in the manner described, in combination with the pole N, the rocking shaft 3, and the lever 2; the whole being constructed, arranged, and operated in the manner specified, and for the purpose set forth. I claim, fourthly, the arrangement, in relation to the driver's seat, of the lever, and mechanism connected therewith for raising and lowering the cutter bar, substantially as set forth herein, whereby the sickle may be raised in the manner described."

Designs.

George Blanchard, of New York, N. Y., for a "Design for watch guards."

"I claim making a watch guard to represent a fire-engine, hose, and pipe, as represented in the accompanying Drawings."

J. W. Lane, of Newton, R. I., for a "Design for a stove plate."

"I claim the star and crescent for circular plates for stoves."

Additional Improvement.

D. H. Fox and John Fink, of Reading, Pa., for an "Improvement in modes of ventilating railroad cars."—Patented 8th May, 1855.—Additional Improvement, dated 10th May, 1859.

"We claim as an improvement on our patent aforesaid the construction of the fan chambers D, D[1], with outlets at each extremity, and their combination with the other portions of the ventilating apparatus, as described."

Extension.

Francis L. Hedenberg, of New York, N. Y., for an "Improvement in stoves."—Patented 7th May, 1845.

"I claim the particular manner, as above set forth, in which I arrange and combine the flue and air-heating spaces, and the pedestal of my stove; the hot-air space being between the ascending and descending draught, the descending draught spreading around the base of the stove."

List of Specifications published during the week ending 27th May, 1859.

No.	Price.	Subject-Matter.
2115	3*d.*	Casting steel.
2300	3*d.*	Machinery for sizing yarn.
2331	10*d.*	Looms.
2332	1*s.*	Apparatus for maintaining the water level in steam boilers, gas meters, &c.
2334	6*d.*	Apparatus for washing clothes and other fabrics.
2335	1*s.* 2*d.*	Hanging and arranging springs for railway carriages.
2337	6*d.*	Propelling vessels.
2338	1*s.* 9*d.*	Ovens for baking bread.
2339	3*d.*	Packing merchandise.
2340	3*d.*	Machinery for moulding washing blues.
2341	5*l.*	Screws.
2342	3*d.*	Photographic plates.
2343	5*d.*	Baths.
2344	3*s.*	Machinery for embroidering fabrics.
2345	6*d.*	Ventilating houses, &c.
2346	7*d.*	Apparatus for crossing bankers' cheques.
2347	5*d.*	Cupola furnaces.
2348	10*d.*	Power looms.
2349	3*d.*	Winding watches, chronometers, &c.
2350	3*d.*	Locomotive and other steam boilers.
2351	10*d.*	Printing machines.

No.	Price.	Subject-Matter.
2352	5*d.*	Compensating apparatus for watches or timepieces.
2353	5*d.*	Self-acting cartridge pouch.
2354	5*d.*	Files or holders for papers, letters, bags, &c.
2355	3*d.*	Knitting frames.
2356	3*d.*	Apparatus for regulating the supply of fluids.
2357	3*d.*	Cocks, taps, and other apparatus for regulating the flow of fluids.
2358	10*d.*	Apparatus for lubricating railway axles, &c.
2359	3*d.*	Fire lighters.
2360	6*d.*	Machinery for the manufacture of cap fronts.
2361	8*d.*	Manufacture of iron.
2362	3*d.*	Raising nap on the linings of sheep skins.
2363	7*d.*	Obtaining motive power.
2364	10*d.*	Kiln for drying grain
2365	1*s.* 4*d.*	Apparatus for harrowing, scarifying, and cultivating land.
2366	1*s.* 4*d.*	Machinery for cutting hay, straw, &c.
2367	3*d.*	Taking life-size pictures from smaller pictures.
2369	10*d.*	Toy.
2370	3*d.*	Weaving.
2371	3*d.*	Manufacture of metal moulds for moulding plastic substances.
2372	10*d.*	Pumps.
2373	2*s.* 1*d.*	Telegraphic apparatus.
2374	3*d.*	Internal fittings for carriages.
2375	3*d.*	Elevating stands or stages.
2376	3*d.*	Manufacture of neck scarfs.
2377	10*d.*	Umbrellas and parasols.
2378	10*d.*	Propellers for ships and boats.
2380	6*d.*	Connecting links of harness hames.
2381	9*d.*	Churn.
2382	6*d.*	Manufacture of candles.
2383	5*d.*	Cotton gins.
2384	3*d.*	Self acting feeding apparatus for letter-press printing machines.
2385	9*d.*	Machinery for moulding clay and other plastic materials.
2386	3*d.*	Chronometers, watches, &c.
2387	1*s.*	Steam engines.
2388	3*d.*	Water wheel.
2389	10*d.*	Machines for boring.
2390	3*d.*	Boilers, flues, &c.
2392	10*d.*	Steam engines and pumps.
2393	3*d.*	Construction of floors and ceilings.
2395	3*d.*	Plaits and curls for head dresses, &c.
2396	6*d.*	Letter-press printing machines.
2397	3*d.*	Furnaces for annealing steel.
2401	4*d.*	Composition to be used in the manufacture of articles from plaster of Paris, &c.
2402	3*d.*	Apparatus for cooling oil used for annealing steel.
2403	6*d.*	Lubricating steam cylinders.
2409	3*d.*	Manufacture of capsules, &c.
2416	6*d.*	Attaching wheels to the axles of railway carriages.
2438	6*d.*	Railway brakes.
2439	5*d.*	Producing and applying voltaic electricity for curative purposes.
2420	2*s.* 8*d.*	Agricultural apparatus for ploughing, &c.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Museum of Patents, South Kensington.

Numbers of Visitors for the Week ending 28th May, 1859.

Mornings - - - -	1070
Evenings - - - -	1102
Total - - -	2172

Since the opening of the Museum Free Daily (May 12, 1858),—102,017.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. Woodcroft.

Great Seal Patent Office,
Southampton Buildings.

Gallery of Portraits of Inventors, Discoverers, and Introducers of Useful Arts.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. Curtis for a Patent. Price 1*s.*

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s.* 6*d.*

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 565. FRIDAY, JUNE 3, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1088. To ARCHIBALD McKECHNIE, of Carron, in the county of Stirling, North Britain, Engineer, for the invention of "Improvements in hammers and in apparatus for working the same."

On his petition, recorded in the Office of the Commissioners on the 30th day of April, 1859.

1128. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in the manufacture of sheet iron."—A communication from abroad by David A. Morris, of Pittsburg, Pennsylvania, United States of America.

On his petition, recorded in the Office of the Commissioners on the 5th day of May, 1859.

1142. To THOMAS JONES, of Liverpool, in the county of Lancaster, Slater and Plasterer, for the invention of "An improved apparatus and arrangement of flues for heating and ventilating buildings, ships, and other structures, and for causing draughts in chimnies."

On his petition, recorded in the Office of the Commissioners on the 6th day of May, 1859.

1160. To FREDERICK VERNON HADLOW, of 8, Prince Albert Street, Brighton, in the county of Sussex, Engraver, for the invention of "An improved stamp for marking linen and other wearing apparel."

1162. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved construction of lamp."—A communication from abroad by William Henry Racey, of St. Augustine, St. John's county, state of Florida, in the United States of America.

1164. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in obtaining motive power."—A communication from abroad by Aimé François Lapène, of Paris, in the empire of France.

1166. And to NICHOLSON BARKER, of Heyford and JAMES ALFRED CARTER, of Blisworth, both in the county of Northampton, for the invention of "Improvements in apparatus for lubricating the pistons of steam engines."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of May, 1859.

1168. To ROBERT JOHN LEES, of Woolley Bridge, near Hadfield, in the county of Derby, for the invention of "Improvements in steam generators or boilers."

1170. To MOSS DEFRIES, of Houndsditch, in the city of London, Manufacturer, for the invention of "Improved apparatus for regulating the pressure of gas."

1172. To ROBERT THOMSON, of Glasgow, in the county of Lanark, North Britain, Manager, for the invention of "Improvements in shuttles."

1174. And to MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "Improvements in heating and in supplying air, and in the apparatus employed therein, part of which improvements is also applicable to exhausting fluids."—A communication from abroad by Louis Cyrille Bureau, residing at Paris, in the French empire.

On their several petitions, recorded in the Office of the Commissioners on the 10th day of May, 1859.

1178. To ALEXANDRE MANBRÉ, of No. 10, Rathbone Place, Oxford Street, London, in the county of Middlesex, Brewer, for the invention of "An

improved method of extracting and purifying sugar, called glucose and 'sirop de fecule,' from potatoes or fecula, or starch or dextrine for the purposes and uses of brewers, distillers, vinegar makers, colouring makers, or otherwise."

1180. To THOMAS PETER BENNETT, of Gilnow Mills, near Bolton-le-Moors, in the county of Lancaster, Manager, for the invention of "Certain improvements in or applicable to carding engines."

1182. To HENRY CLARKE, of Wakefield, in the county of York, Corn Factor, for the invention of "Improvements in balancing mill-stones to the running as well as the standing state."—A communication from abroad, by Thomas Narburgh, of St. Louis, Misouri, North America.

1184. To CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved musrol or noseband for horses' bridles."—A communication from Louis Marque, residing at Vienne (Isère), in the empire of France.

1186. To WALTER SALTER, junior, of Lea, in the county of Wilts, for the invention of "Improvements in hay-making machines."

1188. And to JAMES BAGSTER LYALL, of Castle Frome, in the county of Hereford, Gentleman, and FREDERICK WILLIAM CAMPIN, of the Strand, in the county of Middlesex, Patent Agent, for the invention of "Improvements in the 'saloon' omnibus and other omnibuses, the wheels and springs whereof, and mode of attaching them, being applicable to other carriages."

On their several petitions, recorded in the Office of the Commissioners on the 11*th day of May*, 1859.

1190. To JOHN SAXBY, Engineer, of Brighton, Sussex, for the invention of "Improvements in the mode of securing the rails on railways."

1191. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "Improvements in machinery for solidifying, pressing, and moulding."—A communication from abroad by Felix Dehaynin, residing at Paris.

1192. And to ANDRÉ PROSPER ROCHETTE, of Brighouse, in the county of York, for the invention of "An improvement in the manufacture of soft soap."

On their several petitions, recorded in the Office of the Commissioners on the 12*th day of May*, 1859.

1196. To THOMAS SCOTT, of Rouen, in the empire of France, Engineer, for the invention of "An improved surface condenser and refrigerator."

1198. To JOSEPH FELIX ALLENDER, of Brierley Hill, in the county of Stafford, Manager of Works, and JOB RICHARDS the younger, of Brierley Hill aforesaid, Manager of Works, for the invention of "Improvements in furnaces for puddling iron."

1200. To ROBERT GOURLAY, of the firm of Alston and Gourlay, of Glasgow, in the county of Lanark, North Britain, Ironfounders, for the invention of "Improvements in making moulds for casting."

1202. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in cooking, preserving, and drying animal and vegetable substances."—A communication from abroad by Anthony Bourdin, of Paris.

1204. To WILLIAM SPARKS THOMSON, of New York, in the United States of America, but now of St. Martin's-le-Grand, London, Skirt Manufacturer, for the invention of "Improvements in the manufacture of hooped skirts."—Partly a communication from abroad by William Wilmot, of New York, in the United States of America.

1206. And to GEORGE ROBERT CLOVER, of the firm of Clover and Royle, of Liverpool, in the county of Lancaster, Ship Builders, for the invention of "Improvements in ships' night signals."

On their several petitions, recorded in the Office of the Commissioners on the 13*th day of May*, 1859.

1208. To MATTHEW LEAHY, of 53, Hereford Road, Westbourne Park, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in apparatus for facilitating the draught of carriages."

1210. To DAVID SMITH, of Glasgow, in the county of Lanark, North Britain, Civil Engineer, for the invention of "Improvements in projectiles for fire-arms."

1212. And to EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for the invention of "Improvements in the construction of buildings made of iron or other metals."

On their several petitions, recorded in the Office of the Commissioners on the 14*th day of May*, 1859.

1214. To SCHOFIELD CROWTHER SHEARD, Engineer, of Smethwick, in the county of Stafford, for the invention of "Certain improvements in fire-bars, which bars are applicable to all furnaces where great heat and economy of fuel are required."

1216. To WILLIAM MIDWORTH, of the firm of Messrs. John Midworth and William Midworth, of Newark-upon-Trent, in the county of Nottingham, Engineers, Iron Founders, and Ironmongers, for the invention of "An improved iron for the use of laundries, tailors, or other purposes."

1218. To JOHN CLARK, of Glasgow, in the county of Lanark, North Britain, Wholesale Stationer, for the invention of "Improvements in envelopes, and in machinery or apparatus for gumming, embossing, folding, counting, and otherwise treating the same, in part applicable in the treatment of note and other writing paper."

1220. And to WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agent, for the invention of Improvements in mixing, combining, and otherwise treating certain matters and substances for the production of manure."—A communication from abroad, by Louis Parent, of Saint Marcel-les-Chalon, France.

On their several petitions, recorded in the Office of the Commissioners on the 16*th day of May*, 1859.

1222. To LEMUEL DOW OWEN, of 192, Tottenham Court Road, in the county of Middlesex, Engineer, for the invention of "An improved menstrual receiver or truss."—A communication from abroad by Herman W. Ladd, of Boston, Massachusetts, United States of America.

1223. To JOHN BROWN the younger, of the Rotherham Iron Works, Rotherham, in the county of York, Ironfounder, for the invention of "Improvements in buffers, draw springs, and bearing-springs."

1224. To ALEXANDRE RÉNÉ LANDRE, POLYDORE GRAS, and ANTOINE LOUIS AUGUSTE BOUCHERIE, all of the city of Marseilles, in the empire of France, Merchants, trading under the firm Landre Gras and Co., for the invention of "Distilling schist or boghead coal and other minerals for lighting."

1225. To HENRY DOLLEY, of Paris, in the empire of France, Manufacturer, for the invention of "An improvement in the manufacture of hooped petticoats, and in the metal ribs employed in the manufacture of hooped petticoats."

1226. To AMÉDÉE ETIENNE CHARLES JOSEPH REYNAUD DE TRETS, of Marseilles, in the French empire, Gentleman, for the invention of "An improved composition for splitting rock."

1227. To JAMES NASMYTH, of Surrey Street, Strand, in the city of Westminster, Engineer, for the invention of "Improved apparatus for obtaining and applying motive power."

1228. And to CHARLES LAW, of Wolverhampton, in the county of Stafford, Lockmaker, for the invention of "Improvements in the construction of locks."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of May, 1859.

1229. To ROBERT ROMAINE, late of Canada West, but now of Chapel Street, Bedford Row, in the county of Middlesex, Gentleman, for the invention of "Improvements in the means of applying steam power to the cultivation of the soil."

1231. To EDWARD CHARLESWORTH, of No. 1, De Grey Street, York, and No. 3, King William Street, Strand, in the county of Middlesex, for the invention of "Counteracting the recoil of small fire-arms, and lessening the risk of injury arising from the bursting of the same."

1232. To SAMUEL NORTON EVANS, of Chapel Yard, North Street, Wolverhampton, in the county of Stafford, Commission Agent, for the invention of "Improved mechanism for preventing accidents at mines from overwinding."

1233. To JOHN HASLAM, of Preston, in the county of Lancaster, for the invention of "An improved construction of healds or harness used in warp dressing and sizeing machines, and in looms for weaving."

1235. To JOHN DEAN, Cotton Manufacturer, JAMES PARKINSON, Manager, EDMUND RILEY, Overlooker, and WILLIAM BURTON, Mechanic, all of Syke Mill, Haslingden, in the county of Lancaster, for the invention of "Improvements in certain self-acting mules for spinning fibrous materials."

1236. To WILLIAM NICHOLLS, of Tregolls Road, Truro, in the county of Cornwall, Millwright, &c., for the invention of "Improvements in portable corn mills."

1237. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in lubricating certain portions of machinery."—A communication from abroad by Michael Bonière the younger, of Paris, in the empire of France, Manufacturer.

1238. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in heating."—A communication from abroad by Stanislas Lebobe, of Paris.

1239. And to JAMES CHILDS, of Windsor House, Putney, in the county of Surrey, for the invention of "Improvements in hardening and vulcanizing compounds of sulphur with india rubber and gutta percha."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of May, 1859.

1240. To JOHAN VALDA, of London, in the county of Middlesex, for the invention of "Improvements in stud fastenings, and a system of ornamenting and adapting belts, cravats, ribbons, draperies, and other articles to stud fastenings."

1241. To GEORGE WALKER, of Old Nickol's Street, Church Street, Shoreditch, in the county of Middlesex, for the invention of "Certain improvements in swing looking-glasses."

1242. To ROBERT WILSON, of Patricroft, near the city of Manchester, Engineer, for the invention of "Improvements in hydraulic machinery."

1243. To HENRY NEWMAN, of Liverpool, in the county of Lancaster, Dentist, for the invention of "Improvements in the construction of artificial teeth, and in the mode or manner of affixing the same to the frame."

1245. To ROBERT VALENTINE LEACH, of Taibach, in the county of Glamorgan, and of Devizes, in the county of Wilts, Tin Plate Manufacturer, for the invention of "Improvements in the manufacture of iron, and in the machinery connected therewith."

1246. To DAVID KIRKALDY, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in the manufacture or treatment of steel."

1247. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the roasting or calcining of ores, applicable also to the oxidising of other substances."—A communication from abroad by Professor Jean François Persoz, of Paris, in the empire of France.

1248. To WILLIAM TEASDEL, of Pier, Great Yarmouth, in the county of Norfolk, Engineer, for the invention of "Improvements in coffer dams."

1250. To JAMES PALMER BUDD, of Ystalyfera, near Swansea, for the invention of "Improvements in the manufacture of tin and terne plates."

1251. And to WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for the invention of "Improvements in thrashing and winnowing machines."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of May, 1859.

1253. To JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the county of Stafford, Mechanic, for the invention of "Improvements in the construction of lubricating and other cans, in order to regulate the discharge or flow of the liquids they contain."

1254. To JOHN THOMPSON, of Witton, near Northwich, Cheshire, and JOHN THOMPSON the younger, of Castle, Northwich aforesaid, for the invention of "The manufacture of salt by an improved and more economical mode."

1255. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved construction of cartridge."—A communication from abroad by T. F. Henderson, of Baltimore, Maryland, in the United States of America.

1256. To WILLIAM PEACOCK SAVAGE, of Roxham, Downham Market, in the county of Norfolk, for the invention of "Improvements in traction steam engines and machinery for moving agricultural implements and machines."

1257. And to WILLIAM HENRY PERKIN, King David Fort, St. George-in-the-East, in the county of Middlesex, and MATTHEW GRAY, of the Dalmonach Print Works, Bonhill, Dumbartonshire, for the invention of "Improvements in mordanting and dyeing fabrics of cotton and other vegetable fibres."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of May, 1859.

1261. To JOHN KNOWLES, of Lower Broughton, near Manchester, in the county of Lancaster, Machinist, for the invention of "Certain improvements in power looms for weaving."

1263. To WALTER CRUM, of Thomliebank, in the county of Refrew, Bleacher and Calico Printer, for the invention of "Improvements in printing and dyeing textile fibres and fabrics."

1265. To JOHN HUTCHINSON MASON, of the town and county of the town of Nottingham, Lace Manufacturer, and GEORGE LEE BAXTER, also of the said town and county of the town of Nottingham, Dyer, for the invention of "Ornamenting lace or other twisted fabrics."

1267. To JOHN LOUIS JULLION, Paper Maker, of Stoneywood Works, Aberdeen, N.B., for the invention of "Improvements in dressing and finishing textile fabrics."

1269. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for the invention of "Improvements in axles and in fitting wheels thereto."—A communication from abroad by M. Masson, residing at Paris.

1271. And WILLIAM CLARK, of Greenock, in the county of Renfrew, North Britain, Marine Painter, for the invention of "Improvements in machinery or apparatus for propelling and manœuvring ships, vessels, and boats."

1273. To ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britian, Engineer, for the invention of "Improvements in steam hammers."

1275. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved construction of washing machine."—A communication from abroad by David Parker, of Shaker Village, New Hampshire, in the United States.

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of May, 1859.

1277. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, Saint Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Atmospheric apparatus for the submarine transport of blocks of stone, and for raising sunken vessels."—A communication from abroad by T. Bandier, of Paris, in the empire of France.

1279. To GILBERT DANIEL JONES, of Clerkenwell, in the county of Middlesex, Engineer, for the invention of "Improvements in mills or machinery for grinding, reducing, and pulverizing."

1281. To WILLIAM THOMAS DENHAM, of Wilmington Square, in the county of Middlesex, Trimming Manufacturer, for the invention of "Improvements in the manufacture of goffering machines."

1283. To EDWARD PAGE, of Bedford, Agricultural Implement Manufacturer, for the invention of "Improvements in horse drags or rakes."

1285. And to BENJAMIN FRANKLIN GREENOUGH, of Boston, in the county of Suffolk, Massachusetts, U. S. A., for the invention of "An electrical conductor for submarine telegraphs, which he denominates a hydro-electric conductor."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of May, 1859.

1287. To JAMES HARMER, of St. James Street, Lower Road, Islington, in the county of Middlesex, for the invention of "Improvements in parts of dry gas meters."—Partly a communication from abroad by William Sinderby, of Boston, Massachusetts, in the United States of America.

1289. To RICHARD ATWOOD GLASS, of 115, Leadenhall Street, in the city of London, Submarine Telegraph Cable and Wire Rope Manufacturer, for the invention of "Improvements in submarine electric telegraph cables."

1291. To ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for the invention of "Improvements in the construction of ships and vessels."—A communication from abroad by Hermann Hirsch, resident at Berlin, in the kingdom of Prussia.

1293. To ALBERT JOHN DAVIS, of 29, George Street, Hanover Square, in the county of Middlesex, Surgeon Dentist, for the invention of "Improvements in apparatus for protecting persons when employed in cleaning windows, painting, or working at the exterior of houses and ships' sides, and such like operations, applicable also for purposes of military and other observation."

1295. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improved machinery applicable to the manufacture of rivets, bullets, and other like articles."—A communication from abroad by Charles Bartholomew Allen, of Philadelphia, United States of America.

1297. And to CHARLES EDWARDS AMOS, of the Grove, in the borough of Southwark, Engineer for the invention of "Improved apparatus for raising vessels for repair, and for floating vessels in shallow water."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of May, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

2nd June, 1859.

2556. DANIEL FRODSHAM, of Rose Cottage, Gurney Road, Stratford, in the county of Essex, for an invention of "Improvements in apparatus used in combination with fire-boxes of tubular steam boilers, in order to supply air and steam thereto."—Dated 13th November, 1858.

2774. JAMES BROOKES FISHER and JOHN FISHER, of Stourbridge, in the county of Worcester, Fire-Brick Manufacturers, and JAMES BIRD, the younger, of Kingswinford, in the county of Stafford, Agent, for an invention of "An improvement in the doors and dampers of furnaces and other places where intense heat has to be resisted."—Dated 4th December, 1858.

2781. HENRY THOMAS YATES, of Hounds Gate, Nottingham, for an invention of "Improvements in the manufacture of boards or sheets when wood sawdust is used."—Dated 4th December, 1858.

2793. DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the county of Northumberland, Doctor of Medicine, for an invention of "Improvements in indicating gauges."—Dated 6th December, 1858.

2794. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in the manufacture of gloves."—A communication from Messrs. A. and L. Fontaine, residing at Paris.—Dated 6th December, 1858.

2808. JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, and FREDERICK HENRY ENGLAND, Manager of Foomhall Mills, Stroud, for an invention of "Improvements applicable to machinery for carding, scribbling, and condensing wool and other fibrous substances."—Dated 7th December, 1858.

2847. MAXIMILIEN SCHAFFNER, Civil Engineer, of Eisenach, for an invention of "Improvements in smelting zinc ores, and in furnaces employed for this purpose."—Dated 11th December, 1858.

2856. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in the manufacture of cranked axles and shafts."—A communication from Messrs. Russery, Lacombe, and Co., residing at Rive de Gier, France.—Dated 13th December, 1858.

2858. JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, for an invention of "Improvements in the construction of steam engines, and in the mode of working the same."—Dated 13th December, 1858.

2870. FRANÇOIS CHRISTOPHE NICOLAS JUVENAL VIELLARD-MIGEON, of Morvillars, department of Haut Rhin, France, Manufacturer of Wood Screws, for an invention of "Improvements in manufacturing screws, rivets, nails, spikes, and all similar articles made of metallic wire, and in the machines connected therewith."—Dated 15th December, 1858.

2904. EMILE WEBER, of Mulhouse, in the empire of France, Chemist, for an invention of "Improvements in dyeing or coloring textile fabrics and materials, and in the machinery or apparatus connected therewith."—Dated 18th December, 1858.

2963. HENRY LOWE, of Birmingham, in the county of Warwick, Manufacturer, and WILLIAM TRUEMAN, of Birmingham aforesaid, Axle Maker, and JOHN LINWOOD PITTS, of Birmingham aforesaid, Accountant Clerk, for an invention of "A new or improved axle for carriages."—Dated 27th December, 1858.

59. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in machinery for winding, twisting, and doubling fibrous materials."—A communication from Louis Barnabé Duboc, junior, of Paris, in the empire of France.—Dated 7th January, 1859.

153. RICHARD GARRETT, junior, of Leiston Works, Saxmundham, in the county of Suffolk, and JAMES KERRIDGE, Foreman to Messrs. Garrett and Sons, of Leiston Works aforesaid, for an invention of "An improved arrangement of combined thrashing and dressing machine."—Dated 18th January, 1859.

177. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improved apparatus for measuring water and other liquids."—A communication from Mr. Alfred Nobel, Engineer, of Paris, in the empire of France.—Dated 20th January, 1859.

463. SAMUEL WHEATCROFT, of Brudenell Place, New North Road, county of Middlesex, Engineer, for an invention of "Improvements in the method of and the means for uniting lace to blond and other fabrics, and also in the apparatus used for manufacturing or converting the same into bonnet and cap fronts, rouches, and such like similar articles of millinery."—Dated 19th February, 1859.

654. BENJAMIN RIDER, of 61, Red Cross Street, Borough, in the county of Surrey, Leather Dresser and Hat Leather Manufacturer, for an invention of "Improvements in hats, caps, and other coverings

for the head, and in apparatus used in the manufacture of such articles."—Dated 15th March, 1859.

734. JOHN MACINTOSH, of North Bank, Regent's Park, Gentleman, and GODFREY RHODES, of Regent Street, Major in Her Majesty's Army, for an invention of "Improvements in tents and such like coverings for shelter against the weather."—Dated 22nd May, 1859.

Patent on which the Stamp Duty of £50 has been Paid.

(30*th May*, 1859.)

1298. THOMAS WILSON, of Birmingham, in the county of Warwick, Engineer, for an invention of "Improvement or improvements in screw wrenches."—Dated 2nd June, 1856.

FOREIGN PATENTS.

UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 17th May, 1859, and each bearing that date.

No. 23,995. ELISHA H. ADAMS, of Taladega, Ala., for an "Improvement in cotton presses."

"What I claim, is, the combination and arrangement of guide rod D, toggle levers E, E, connecting rod H, lever G, and rack lever I, all operating substantially in the manner a d for the purposes herein set forth."

No. 23,996. DAVID AHL, of Newville, Pa., for an "Improvement in surgical splints."

"I claim, as a new article of manufacture, my improved splint, made of the ingredients, and in the manner set forth."

No. 23,997. V. R. ALLEN, of St. Louis, Mo., for a "Stencil brush."

"What I claim as my invention, is, the mode of making the handle of the brush in two parts, and fastening the two parts by means of a screw turned on the wedge (which I term a wedge screw,) which is driven through the bristles in the iron band, thereby wedging the bristles in the band and enabling the main handle to entirely cover the ends of the bristles and band, which prevents the handle and bristles, when in use, from working through the iron band holding the brush together."

No. 23,998. EDWD. R. ARNOLD, of Providence, R.I., for an "Improvement in cut-off gear of steam engines."

"What I claim, is, the combination of an adjustable cam or sector H^1, H^2, Fig. 4, or its equivalent, located on the rock shaft, a stop block J^1, J^2, Fig. 5, or its equivalent, and an arm I^1, I^2, Fig. 3, or its equivalent, attached to the devices which lift the valve; the three so combined, operating to regulate the cut off of the steam in its passage into the engine, at any desired point of the stroke, in the manner and on the principle substantially as described. 2nd, I claim the same combination above specified for the purpose of working the exhaust valves of a steam engine by means of the same rock shaft and eccentric motion with which the steam valves are operated."

No. 23,999. WM. S. G. BAKER, of Chicago, Ill., for an "Improvement in variable exhaust of locomotive engines."

"What I claim, is, the plug E, arranged in combination with the shell D, and with the exhaust pipes A, A^1, of a double cylinder steam engine, in such a manner that the exhaust of each cylinder can be varied, while both are separate from each other, substantially as and for the purpose specified."

No. 24,000. ABRAHAM BARTHOLF, of New York, N. Y., for an "Improvement in sewing machines."

"But what I claim, is, applying the said lever to work on a fixed fulcrum in combination with a friction clamp, which though it permits the said lever to be moved by and with the needle arm, or needle carrier, during a portion of the movement of the latter in either direction, for the purpose of drawing back the thread through the cloth and completing the stitch, and letting it slack again to form the loop of a succeeding stitch, holds the said lever in a positively stationary condition during the first part of the movement of the said arm, or carrier, in either direction, and so prevents the thread getting slack, till the needle has entered the cloth, and prevents it being drawn up through the cloth till the heel of the shuttle has arrived at the loop, substantially as herein described. And in combination with the thread controlling lever, constructed and applied as specified and operated as described by the needle arm or needle carrier, I claim the stationary eye *k*, made adjustable, relatively to the said lever, substantially as and for the purpose herein set forth."

No. 24,001. E. O. BAXTER, of Foreston, Ill., for an "Improvement in seeding machines."

"I do claim as new, 1st, the clearers formed of the bars *i*, *i*, placed on the seed tubes F, connected with the bar I, and operated through the medium of the lever J, or its equivalent, substantially as and for the purpose set forth. 2nd, the frame A, fitted to the axle B, as shown in connection with the cams *t*, *t*, interposed between the axle B and frame A, substantially as shown, so as to raise the frame A, when desired, to throw the seed-distributing device out of gear with the driving wheel. 3rd, the arrangement of the frame A, lever N, connected with frame A, by the rod *v*, and the upright M, on draught pole D, substantially as shown, for the purpose of regulating the depth of the furrows as described."

No. 24,002. DOUGLAS BLY, of Rochester, N. Y., for an "Improvement in artificial legs."

"What I claim is, 1st, I claim curving or deflecting the jointed extremities of the bars (J), so as to bring their axes of motion back of their line of direction, substantially as and for the purpose set forth. 2d, I claim the cord T, and spring X, acting upon the parts (D and L), substantially in the manner and for the purpose herein set forth. 3d, I am aware that metallic springs have been employed to similate the functions of the natural muscles, but experience has proved their inadequacy, both as respects the results obtained and their durability. I am also aware that india rubber, or elastic cords, have been used for the same purpose, and with no better results, and these I d not claim; but I claim the combination of the non-elastic tendon F, with the india-rubber spring (E), in such a manner that the required effect is derived from the compression and expansion of the material, and not from its elongation and contraction, substantially as set forth."

No. 24,003. AMOS H. BOYD, of Saco, Maine, for an "Improvement in sewing machines."

"The employment of lever I, a shoe and shoe-shaft spring *j*, plate *b*, and sliding bar *h*, with an under feed-plate *e*, the shoe and the feed plate having an intermittent direct horizontal reciprocating motion, and the shoe having an intermitting direct vertical reciprocating motion, the same being given substantially in the manner herein specified, and for the purpose set forth."

No. 24,004. JAMES BOYLE, of Roxbury, Mass., for an "Improvement in apparatus for cooling beer."

"What I claim as my invention, is, the combination with two or more vessels, containing a series of tubes inserted in

diaphragm plates, so arranged as to allow communication from the upper part of each vessel to the lower part thereof, and vice versa, by means of and through the said tubes of pipes, so arranged on either side of the diaphragm, as to connect the said vessels alternately at the top and bottom thereof, and of a pump or any suitable device for forcing beer, or any other liquid to be cooled, down through one set of tubes and up the other, while a supply of cold water surrounding said tubes is forced in a direction opposite to that of the liquid contained therein, substantially as set forth."

No. 24,005. MERRITT S. BROOKS, of Chester, Conn., for an "Improved drill stock."

"I claim the arrangement and combination with a spiral or screw-shaped shaft A, of a tube D, ratchet (*a*), and stop (*c*), within the socket E, as and for the purpose herein shown and described."

No. 24,006. JOHN D. BUCKLEY and S. F. MOSHER, of Schaghticoke, N. Y., for an "Improvement in plug for blasting rocks."

"The particular improvement which constitutes our said invention, and which we claim as having been originally and first invented by us, is, the combination of the tapered screw with the expanding metallic plug, having ledges, or other equivalents, to penetrate the rock, and provided with an aperture for the fuse, as set forth."

No. 24,007. GEO. E. COWPERTHWAIT, of Danbury, Conn., for an "Improvement in machinery for hardening hat bodies."

"I claim the method of hardening hat bodies by means of a cradle sustained in an inclined position, and having a tremulous movement, substantially as herein set forth. I also claim the method of subjecting hat bodies to greater or less pressure during hardening by inclining the cradle of the hardening machine to a greater or less extent, substantially as herein set forth."

No. 24,008. JESSE A. CRANDALL, of New York, N. Y., for an "Improved rocking toy."

"But what I claim as novel, and what I wish to secure by Letters Patent of the United States, are, the flat wound spings (C, C^1,) pole or bar (D), elastic string (F), pin or thumb screw (*i*), or their equivalent, in combination with the box (A) and frame (B), arranged and operated in the manner and for the purpose set forth and shown in the drawings."

No. 24,009. C. L. CROWELL and ROBT. SMITH, of Peoria, Ill., for an "Improved machine for upsetting tire."

"What we claim is, the combination of the lever and the intermediate slide, arranged substantially as described, for the purpose of giving movement to the sliding jaw."

No. 24,010. JAMES E. CROWELL, of Chelsea, Mass., for an "Improvement in drawing heads for spinning machines."

"What I claim as my invention, is, so constructing and gearing the two pairs of drawing rollers D^2, d^2, and D^3, d^3, that each pair will draw and release the sliver or roping in turn, and so allow the twist to pass and run back to the first rollers D^1, D^1, d^1, substantially as and for the purpose herein set forth."

No. 24,011. WM. DAWES, of Washington County, Tenn., for an "Improvement in soap."

"What I claim is, the use of the ingredients when combined in the proportions herein set forth, the whole forming an improved soap."

No. 24,012. GEO. W. DEAN, of Glenn's Falls, N. Y., for an "Improved tuyere."

"What I claim is, the adjustable rotating chambered cylinder C, arranged substantially as shown, with the slot B in the bed plate A, and relatively with the blast pipe D to operate as and for the purpose set forth."

No. 24,013. OLIVER H. DENNIS, of Altona, Ill., for an "Improvement in cultivators."

"What I claim is, the arrangement and combination of the hinged handles C, C, hinged side beams B, B, and connecting bars H, H, in relation to the central beam A, substantially in the manner and for the purpose herein specified."

No. 24,014. J. B. DRAKE, of Goshen, Ind., for an "Improvement in straw cutters."

"The particular improvement which constitutes my said invention, and which I claim as having been orignally and first invented by me, is, the arrangement of the hinged forked feeding-pawl frame Q, feeding and stop pawls P and T, centrally-arranged ratchet wheel N, spiked feed-roller M, and rising and falling knife frame, substantially as and for the purposes set forth."

No. 24,015. JOHN L. DRAKE, of Cincinnati, Ohio, for an "Improvement in lamps."

"But what I do claim, is, first, a wick tube for containing two or more flat wicks, one at least of which wicks is a conductor, said tube having a double chamber brace and opening, as herein stated, so that the burning wick may receive the oil from the conductor and still be free to move upon or against it, as it is raised or lowered, to regulate the burning, substantially as described. I also claim, in combination with a slotted and perforated dome and a flat wick for burning heavy oils, an auxilliary flat wick and wick tube, substantially as herein described, and for the purpose stated."

No. 24,016. DANIEL INGHAM DURFEY, of Croton, Ohio, for an "Improvement in apparatus for evaporating saccharine juices."

"I claim herein as new and of my invention, 1, a descending series of evaporating pans, each having a well or depression on the side next its immediate successor in the range, closable by sluices, substantially as set forth. 2nd, the arrangement of the sluices B, alternately on the right and left of the range, when used in the described combination with the wells or depressions above referred to, for the purpose set forth. 3rd, the strainer D, in the described combination, with the clarifier A, operating in the manner and for the purpose set forth."

No. 24,017. JOHN L. FRISBIE, of Cincinnati, O., for an "Improved water indicator for steam boilers."

"I claim, 1st, the described combination and arrangement of the box C, H, adjustable pipe B, I, J, valve K, sleeve Q, *q*, and sector M, N, operating in the described connection with the float arm O, for the purpose of varying the point of alarm from the outside of the boiler, as set forth. 2nd, the cogged sector M, N, provided with a segmental slot *n*, in the described combination with the sliding sleeve Q, *q*, float arm O, and bolt P, to enable the application of the alarm, to any part of the boiler, as set forth."

No. 24,018. RUSSELL FRISBIE, of Middleton, Conn., for an "Improved nut cracker."

"I claim the nut cracker, substantially as described, as a new and improved article of manufacture."

No. 24,019. OMRI C. FORD and JARVIS O. FORD, of Collinsville, Conn., for an "Improvement in water wheels."

"We claim the application of the reversed curved buckets, or guides to form a reversed action, centripetal and centre vent turbine water wheel, in combination with the inner and outer cut-off F and K, in the manner substantially as herein set forth and described."

No. 24,020. A. W. FOX, of Athens, Pa., for an "Improvement in straw cutters."

"I claim, first, the arrangement described and shown of the wheels D and E, or their equivalent, in connection with the crank G, connecting rod H, sliding frame I, and shafts B and C, by which I obtain an accelerated upward and retarded downward motion to the knife of a straw cutter, as set forth. Second, the combination of the sliding frame I with the knife J sliding in the said frame, by means of the action of the angular slot and roller, or their equivalent, by which combination of parts a drawing cut is given to the knife, without interfering with the attachment and operation of the connecting rod H, communicating motion from a shaft placed crosswise to the machine, as set forth."

No. 24,021. ALFRED GOULD and CYRUS MARSH, of Seneca Falls, N. Y., for an "Improved arrangement of key board for pianos, &c."

"What we claim is, the arrangement of two, three, or more ranges of keys of the key board, in the manner and in relation to each other substantially as and for the purposes herein specified."

No. 24,022. Joshua Gray, of Medford, Mass., for an "Improvement in sewing machines."

"What I claim is, 1stly, the combination of the reciprocating bar G, with its side inclines 10 and 11, and upper incline *w*, with the bar N, stop *v*, and adjustable stop *t*, arranged and operating as herein described, for the purpose set forth. 2ndly, in combination with the slide bar G, which operates the feeder, the bent lever *f*, and universally adjustable cam I, the several parts being arranged to operate substantially as described for the purpose set forth."

No. 24,023. Wm. D. Guseman, of Morgantown, Va., for an "Improvement in weighing scales."

"What I claim is, in a weighing apparatus, a pendulum drum, or roller, which has, in addition to a rolling motion, a traveling movement, substantially as and for the purposes described. I also claim, in combination with a rolling and traveling drum or roller, and an index, a traveling vernier or dial, substantially as described. I also claim the combination of the horizontal levers G of a platform scale, with the pendulum drums C, and bands F, substantially in the manner and for the purpose herein described."

No. 24,024. Josiah D. Harrington, of Rochester, N. Y., for an "Improved machine for roasting coffee."

"What I claim are, first, the construction and arrangement of the divided handle *h*, whereby the crank *e* not only serves to hold the two halves of the ball together, while rotating, but also to lift up one half of the ball when moved into the position shown in Figure 1. Secondly, I claim my method of uniting the two halves of a coffee roaster by means of the hinge E, formed of the curved jaw attached to one half of the ball, and passing into a slot in the second jaw, said slot having the pin R, beneath which the curved jaw passes."

No. 24,025. Elijah Harris, of Princeton, Ill., for an "Improvement in mode of applying lever power."

"But what I do claim is, the use of a weight B, a single or double lever C, axle and pivots D, *d*, acting in combination with the circular plate E, ratchet clicks G, and ratchet wheel H, in applying lever power to machinery, substantially in the manner and for the purposes specified."

No. 24,026. Joseph Hawthorn, of Thomas county, Geo., for an "Improvement in cotton press."

"What I claim is, the combination of the screw B, the tap block C, and the levers D and H, with the packing cases M, and their followers G, substantially in the manner and for the purpose herein described and shown."

No. 24,027. Albert H. Hook, of New York, N.Y., for an "Improvement in sewing machines."

"What I claim is, the combination of the cam *b*, the lever *e*, and spring *g*, arranged and combined substantially as and for the purposes herein set forth."

No. 24,028. Sherman S. Jewett, of Buffalo, N.Y., for an "Improvement in cooking stoves."

"I claim the bricks B, B^2, B^3, when constructed, arranged, and supported within the stove, for the purposes of an oven, substantially as herein described."

No. 24,029. Wm. W. Johnson, of Clarksburgh, Va., for an "Improved machine for manufacturing picket fencing."

"What I claim is, 1st, operating a series of twisters B, by means of pulleys and cords, arranged as set forth, so as to give a twist and reverse twist to the wire, in combination with vibrating fingers J, hollow shafts C, and tension plates S, or their equivalents, substantially as and for the purposes herein above set forth. 2nd, I claim the segmental roller N, constructed of three pieces *r*, r^1, r^{11}, for the purposes herein above explained."

No. 24,030. Isaac E. Jones, of Cincinnati, Ohio, for an "Improvement in adjustable canopy for railroad cars."

"I claim the combination of springs, covers, and hinges, all arranged and operating substantially in the manner and for the purposes herein set forth."

No. 24,031. Wm. Joslin, of Cleveland, Ohio, for an "Improvement in centrifugal gun."

"What I claim is, 1st, arranging the barrel G upon the same shaft with cog wheel F, which is secured near the periphery of the plate I, and revolving the barrel around the wheel K, substantially in the manner and for the purpose herein set forth. 2nd, the combination of the bevel and spur gear wheels with plate I and barrel G, the same being arranged in the manner and for the purpose herein specified. 3rd, I claim the arrangement of the slide *a* with the barrel and bevel table *d*, for the purpose of elevating the balls to the barrel, substantially as is set forth. 4th, the arrangement of the revolving hopper bottom, plate J, and cylinder *e*, for the purpose of conveying the balls down to the barrel, as is herein fully set forth."

No. 24,032. Albert B. Keeley and James S. Beek, of Philadelphia, Pa., for an "Improvement in pumps."

"What I claim is, the combination of a solid or valveless oscillating piston, with the peculiar shaped piston chamber, and with the upper and lower valves, all arranged and operating substantially as and for the purposes set forth."

No. 24,033. Henry S. Lesher, of Brooklyn, N.Y., for an "Improvement in breast pads and perspiration shields."

"What I claim is, the combination of the arm-pit shields or protectors H, and breast pads D, substantially as described, so as to produce a new article of female apparel of the character set forth."

No. 24,034. David D. Lewis, of Tamaqua, Pa., for an "Improvement in railroad frogs."

"I claim the steel point K dove-tailed to the body of the frog, in combination with the tread plate *k* and the block *i* when the said tread plate overlaps and is riveted to the said point, and when the block *i* is of such a tapering or wedge-shaped form, that during the process of riveting it and the tread plate to the body of the frog, the said block may serve the purpose of driving the point tight up into its socket, for the purpose specified."

No. 24,035. Arthur Maginnis, of Philadelphia, Pa., for an "Improvement in ventilating hats."

"What I claim is, the combination of the perforated hat body, the perforated sweat leather, and the intervening corrugated band C, when said band is provided with corrugations upon its two sides, and made plane and smooth on it, rear and front, the whole being constructed and arranged substantially in the manner and for the purpose herein specified."

No. 24,036. Robt. A. Maingay, of Pottsville, Pa., for an "Improved filterer and purifier."

"What I claim is, 1st, the combination of the lime water hopper D, agitator *h*, turbine i^1, *i*, *i*, and hogshead A, substantially as and for the purposes set forth. 2nd, the combination of the alkali keg E, hogsheads A^1, A^2, and turbine F, *o*, *o*, substantially as and for the purpose set forth. 3rd, the arrangement and combination of the purifying and filtering hogsheads A, A^1, A^2, A^3, filtering tank C, turbines F, *o*, *o*, i^1, *i*, *i*, purifier and alkali kegs or hoppers D, E, substantially as and for the purposes set forth."

No. 24,037. Albert H. Manchester, of Providence, R.I., for an "Improved anti-friction support for the backs of rudders."

"But what I claim is, the device or apparatus before described, viz., supporting the rudder from behind, by means of a backer or brace rising from the deck, or attached above it, and having rollers in its face, constructed, arranged, and operating substantially as described."

No. 24,038. Alfred Marsh, of Detroit, Mich., for an "Improvement in gas retorts."

"I do claim the employment of the secondary lid *h*, for the purposes set forth, when the same is arranged and connected with the feed pipe, substantially as shown and described."

No. 24,039. Thos. J. Mayall, of Roxbury, Mass., for an "Improvement in composition for emery sticks and wheels."

"What I claim is, the composition for the manufacture of emery wheels, sticks and tools of more or less flexible nature, formed of gutta percha, or india rubber and sulphur, emery

and olive oil, substantially in the manner and for the purposes set forth."

No. 24,040. JOHN MCDIARMID, of Brooklyn, N.Y., for an "Improved machine for sawing beveled surfaces."

"I claim the employment of the oscillating frame B, B, in combination with the centre wheel *o*, central flange N (Figure II.), and saw T, or cutters (*t*, Figure 5,) when the same shall be constructed in the manner described, and for the purpose specified."

No. 24,041. CHAS. A. MCEVOY, of Richmond, Va., for an "Improvement in metallic seals."

"But what I do claim is, the use of a paper label, or its equivalent, in combination with a metallic seal, substantially as and for the purpose specified."

No. 24,042. CHAS. MESSENGER, of Warren, Ohio, for an "Improvement in seeding machines."

"I claim the lever *b*, arm *c*, levers *e*, and spring *h*, when arranged substantially as described, and in combination with a combined seeding machines and ground roller; I also claim the studs E, E^1, and F, F^1, rods I, I^1, and shaft J, in combination with the cams D, D^1, substantially as set forth, and when used in connection with the seeding machine and ground roller combined."

No. 24,043. RICHD. MONTGOMERY, of New York, N.Y., for an "Improvement in screw excavator."

"I claim, first, making the cylinder *a*, *b*, which encloses the screw a^1 in a conical form, for the purpose of rendering the ascent and discharge of the earth more free and perfect, as set forth. Second, supporting the cylinder and screw by means of the hinged frame, *u*, *s*, s^1, substantially as and for the purposes set forth. Third, driving the cylinder *a*, *b*, and screw a^1, by means of the gearing *y*, *x*, *e*, *d*, arranged and combined as described. Fourth, supporting and adjusting the front of the excavator, by means of the friction ring *g*, and chain or rope *n*, as above described. Fifth, the curved swinging standard or derrick *p*, for elevating the front end of the excavator, without unfastening the chain *n*, when desired as described. Sixth, the combination of the cylinder *a*, *b*, and screw a^1, with the swinging frame *u*, *s*, s^1, derrick *p*, and carriage K, substantially as herein set forth."

No. 24,044. JOEL MOULTON, of Boston, Mass., for an "Extension ladder."

"I claim the improved extension ladder hose carrier, constructed substantially in manner and with its parts arranged and applied together as described, viz., with a series of single ladder bars A, B, C, connected together and provided with pins or handles, and having not only an extension line and sheaves connected with and arranged in them (the said bars), as explained, but a supporting platform and guide braces arranged at the upper part of the upper bar, as described. I also claim the combination and arrangement of the water conduit, or hose pipe director, and its guiding lines, with the extension ladder, constructed essentially in manner and to operate substantially as described."

No. 24,045. JACOB MURPHY, of Half Moon, Pa., for an "Improvement in metal drills."

"I claim the shoulders on the drill *d*, in combination with the braces *b*, *b*, and pin *p*, upon the sliding frame B, B, substantially as and for the purposes set forth."

No. 24,046. THOS. H. MURPHY, of New Orleans, La., for an "Improvement in machines for rolling and measuring cotton bagging."

"I claim the within-described machine, or combination for simultaneously rolling and measuring bagging, consisting of an adjustable guide bar F, sliding shaft D, fitting into driver B, the windlass and cord E (*b*), adjustable pressure roller G, carrying cam (*i*), lever J, indicating wheel L, arm K, pawl (*l*), and spring M, when all said parts are arranged and combined substantially as herein shown and set forth, for the purpose specified."

No. 24,047. JACOB NAEHER, of North Orange, N. J., for an "Improvement in machines for husking corn."

"I claim the reciprocating troughs C, C, one or more, provided with pincers I, in connection with the toothed plates or stripping combs *o*, *o*, *o*, *p*, and with or without the retaining plate *q*, the whole being arranged to operate substantially as and for the purpose set forth."

No. 24,048. CHAS. NEER, of Albany, N. Y., for an "Improvement in metallic frames for window blinds."

"What I claim is, constructing frames for blinds of sheet metal bent in a U form, and connected together substantially as specified. I also claim the bent or folded strips *f*, *f*, provided with holes receiving the ends or tenons of the slats, as set forth."

No. 24,049. H. NORTON and J. S. B. NORTON, of Farmington, Me., for an "Improved mop handle."

"We claim attaching the mop cloth or yarn B to the handle A and to a slide C fitted on the handle, and arranged substantially as and for the purpose set forth."

No. 24,050. NELSON PARMETER, of Gardner, Mass., for an "Improvement in manufacture of bricks."

"What I claim is, a fire-proof brick or lining composed of the above-named ingredients, in the proportions set forth, and in the manner substantially as described."

No. 24,051. CHAS. PAGE, of West Meriden, Conn., for an "Improved signal door bolt."

"But I do claim passing the pin which moves the bolt through the door, and permanently fixing to the projecting extremity thereof a segmental plate, so as to overlay the fixed symbol plate, and in the manner set forth communicate the desired intelligence."

No. 24,052. H. D. J. PRATT, of Washington, D. C., for an "Improved machine for planing or shaving ice."

"What I claim is, the machine or implement for cutting or reducing ice to small particles herein-before described, the same consisting of the arrangement in a hopper, of suitable size and shape of rotating cutters, with or without a presser, the whole constructed and operating substantially in the manner described, and applied to the purpose specified."

No. 24,053. ASA PRESTON, of Unionville, Ohio, for an "Improvement in cultivators."

"I claim the construction of a combined plow cultivator, having the several parts so arranged that they can be easily attached or detached, as herein described, when said plow has the hinged wings W, mould board H, bars L, M, and blades J, K, arranged and operated, substantially as set forth."

No. 24,054. REUBEN RICH, of Albion, N. Y., for an "Improvement in water wheels."

"I claim constructing the penstock A, dadoed joints L, and bolts I, in combination with gates G and G^2, and centre scroll plate B, and wheel C, when constructed and operated in the manner and for the purposes herein-before specified."

No. 24,055. SYLVANUS RICHARDSON, of Jericho, Vt., for an "Improved water wheel."

"What I do claim is, the float with hinges, as shown at point marked *a*, in Figures No. 2 and 4, and the spiral or curved form of the lower part of the float, as shown in Figures 2, 3, and 4, of said drawings, at points marked *b*, combined with the extension downwards of the case, below the scroll case *e*, and with draft tube *h*, shown in Figure 1, of said drawings, substantially in the manner and for the purposes above set forth."

No. 24,056. JOHN R. ROGERS, of Sacramento, Wis., for an "Improved washing machine."

"I claim the combination in the cylinder B, of the diagonal slats *c*, *c*, *e*, *c*, with the two heads of the cylinder, when said heads are provided with holes of such a shape and form that they will collect and force the water in and empty it at alternate ends of the cylinder, as the direction of its revolution are changed, substantially as is herein fully set forth."

No. 24,057. TIMOTHY ROSE, of Cortlandtville, N.Y., for an "Improved water wheel."

"I do claim, forming the buckets B of four parts, *a*, *b*, *c*, *d*, arranged or disposed relatively with each other, the hub A, and annular plate *e*, and with a scroll C, specifically as herein shown and described, and for the purpose set forth."

No. 24,058. JOHN RUSSELL, of Troy, N. Y., for an "Improvement in cast-iron grinding mills."

"What I claim is, first, the combination of the breaker B, and internally-armed hopper A, with the upper grinder I,

and lower grinder H, all aranged and operating together, as herein set forth, for the purpose of feeding into the mill and grinding large substances, such as corn on the cob. And I also claim making the armed portion of the hopper of separate rings N, provided with internal projections *b*, and arranged and secured together in the mill, as and for the purpose herein set forth. And I also claim making the lower grinder of separate toothed rings C, arranged and secured together upon the supporting plate E, as and for the purpose herein described. And I also claim making the upper grinder of separate toothed rings J, arranged and secured together, in and to the supporting plate K, as and for the purpose herein set forth."

No. 24,059. Thos. Short, of Danville, Ill., for an "Improvement in seeding machines."

"I claim the swinging frame D, when provided with a seed distributing device actuated by a wheel H, and cutting furrow shares I, and fitted within a mounted frame A, substantially as for the purpose set forth."

No. 24,060. Christian Shunk, of Canton, Ohio, for an "Improvement in refining iron in the hearth of a blast furnace."

"I claim the employment of an auxilliary tuyer pipe within the hearth of the common blast furnace, when charged with molten iron, at such an angle as that the blast of air entering the iron, may strike the circular wall of the hearth as nearly as possible at a tangent to its circumference, so as to cause the blast of air to pass round in the metal, giving the whole mass in the hearth a spiral motion immediately before the tapping of the furnace, for the manufacture of pig iron from the ore."

No. 24,061. James C. Spencer, of Phelps, N. Y., for an "Improvement in sewing machines."

"I claim the construction of a feeder and needle bar in one piece, or connected together, and the combination of the excentric (D) and pin (F) with the needle bar by means of the slot (S), for the purposes herein specified."

No. 24,062. W. S. Stetson, of Baltimore, Md., for an "Improvement in harvesting machines."

"I claim, first, connecting the finger bar to the frame of the machine by means of the saddle and its support, constructed and arranged substantially as herein described. Second, in combination with the saddle *d*, I claim the swiveling guide and swiveling lever *k*, as set forth. Third, I claim throwing the cutters in and out of gear, by means of the shifting bar *t*, constructed and operated, substantially in the manner set forth."

No. 29,063. W. S. Stetson, and R. F. Maynard, of Baltimore, Md., for an "Improvement in harvesting machines."

"We claim the double hinge joint at the end of the finger bar, consisting of the hinge *p*, shaft *r*, collar *s*, and brace *t*, arranged and operating in the manner described for the purpose specified. 2d, we claim the compound connecting rod *m*, constructed and operated as set forth. 3d, we claim so constructing or forming the upper part of the obtuse angle-iron tooth bar, and the base of the finger or tooth, that said base shall bear upon two plane faces of the said angle iron, in the manner and for the purposes set forth."

No. 24,064. Frederick S. Stoddard, of Litchfield, Conn., for an "Improvement in foot-power machine."

"What I claim, is: first, is a two throw-crank, operated by one pitman, in combination with a lever and spring, or their equivalents, as described. Second, the mode of attaching the spring to the foot piece, to operate on the pitman crank, in connection with the set screws for adjusting and reversing the motion, as set forth."

No. 24,065. J. C. Stoddard, of Worcester, Mass., for an "Improvement in potato planter."

"1st, I claim the combination of the compound cam K, hooked lever I, and sliding cross-head (O), with cutter (*p*) attached, the whole arranged and operating substantially as and for the purpose herein shown and described. 2nd, I claim arranging the plow shares L and covering shares M on parallel rock shaft (*j*, *k*), so that a lateral and vertical adjustment can be given to the same, substantially as herein set forth."

No. 24,066. Worden E. Stoddard, of Horicon, N. Y., for an "Improved stop-gauge for weather boarding, &c."

"I claim the use of the bar A, forming a stop or support for boards and mouldings, and the knob C, the spur D, and the adjustable slide B, substantially as here shown, for the purposes set forth."

No. 24,067. John Thompson, and M. L. Doty, of Chariton, Iowa, for an "Improved paddle-wheel."

"We claim the buckets of a paddle wheel, arranged in combination with the segments *b*, the weighted pinions F, and the dogs H, or their equivalents, to operate substantially as and for the purpose specified. And in combination with the above named parts, we also claim the arrangement of the spur *j*, or their equivalents, for the purpose of retaining the buckets in the proper position while the wheel is backing, substantially as described."

No. 24,068. L. E. Truesdell, of Warren, Mass., for an "Improvement in connecting together the braces of truss bridges."

"I claim the method herein described of constructing and interlocking the diagonal braces, for the purposes set forth."

No. 24,069. Chas. R. M. Wall, of New York, N. Y., for an "Improved propeller."

"I claim, 1st, an apron G arranged in such relation to a wheel A that it operates to propel a vessel, substantially as described. 2d, the arrangement of the rollers E, E^1, in combination with the apron G, whereby the wheel is made to work at any dip, substantially as specified. 3rd, the springs *g*, or their equivalent, arranged in combination with the rollers E^1 and with the apron G, for the purpose of regulating the strain on the apron, substantially as set forth."

No. 24,070. Calvin D. Wheeler, of New York, N. Y., for an "Improved needle-case and index."

"I claim a needle case and index combined for sewing machines, as described, whereby the appropriate sizes of the thread and needles to properly work together is always determined and shown."

No. 24,071. Nicholas Whitehall, of Newtown, Ind., for an "Improvement in seeding cultivators."

"I claim the combination of the stirrups O, O, with the notched handles N, N, eye bolt D, and hooks F, F, by which I am enabled to raise and secure the plow at any desired height, substantially as set forth."

No. 24,072. J. Carpenter Worth, of Little Britain Township, Lancaster Co., Pa., for an "Improvement in cements for roofing."

"I claim the composition for roofing made up in the manner and of the ingredients proportioned and mixed, as herein set forth."

No. 24,073. John H. Young, of St. Louis, Mo., for an "Improved pump."

"I claim, first, dividing the pump cylinder into two chambers *a*, a^1, by the division valve seat plate *b*, with its valves opening upwards, and uniting them by the water-way E, substantially as herein described, and for the purpose set forth. I also claim the poppet valves *m*, *n*, connected to and operating with the buckets K, L, in the two chambers, so that whilst they move with said buckets they shall have action independent of them, as set forth. I also claim, in combination with the hollow piston and stem passing through it, the causing of the upper valve *m* to close upwards against its bucket, substantially as herein described."

No. 24,074. Jacob Youngman, of Sunbury, Pa., for an "Improvement in railroad switch."

"What I do claim is, the arrangement of two guards 4, 4, so that a space 5 exists between them at the point where the cars take an oblique direction to the switch rails, in order to run upon the lower portion of the main track on a frog plate, which has stationary frogs 1, 2, and a rail 3 arranged on it, substantially as and for the purposes set forth."

No. 24,075. Orson Billings, of La Grange, Ohio, assignor to himself and Morris Traver, of Clinton Hollow, N. Y., for an "Improved lock."

"I claim the combination of the guards or plates E, F, H, constructed and arranged relatively with each other and the bolt B, to operate as and for the purpose set forth. I also claim the spring stops *c* when applied to the guard or plate E, and the latter is used in connection with its fellow guards F, H, for the purpose described."

No. 24,076. Tyrannus P. Butterfield, of Indianapolis, Ind., assignor to Abijah Taylor, of Morgan Co., Ind., and R. Stevenson, of same place, for an "Improved hand planing machine."

"What I claim is, the combination and arrangement of the frame A, knife D, feed roller F, spring H, and screw I, when the whole is arranged, constructed, and operated in manner substantially as and for the purpose set forth."

No. 24,077. Sumner Cooper, of Windsor, Conn., assignor to himself, Thos. Denham, and Joseph W. Briggs, of Cleveland, Ohio, for an "Improvement in window sash supporter."

"What I claim is, the combination and employment of the spring pinion pulley C, with the rack or perforated plate L, tube or box I, pin J, key K, latch H, substantially in the manner as and for the purpose described."

No. 24,078. C. B. Cottrell, of Westerly, R. I., assignor to himself and Nathan Babcock, of same place, for an "Improved feeding device for planing machines."

"I claim the combination of the anti-friction and feed rollers ', L, applied to the class of planing machines described, and driven from one and the same shaft H, by gearing, arranged as shown, to admit of a separate lateral adjustment of each, for the purpose set forth."

No. 24,079. Harry H. Evarts, of Chicago, Ill., assignor to himself and P. E. Merrihew, of same place, for an "Improved machine for sawing staves from the bolt."

"I do claim, 1st, the employment or use of the reciprocating saws F, F, in connection with the swinging bolt frames G, G, operated by the wiper wheels *s*, or their equivalents, substantially as and for the purpose set forth. 2nd, the employment or use of the segment racks *k*, operated substantially as shown, and connected by the pinions *g*, with the right and left screw rods H, having jaws *f*, *f*, placed thereon for the purpose of dogging and undogging the bolts at the proper time, as described."

No. 24,080. Henry Howson, of Philadelphia, Pa., assignor to Andrew Harris and John W. Harris, of same place, for an "Improvement in valves for dry gas meters."

"I claim, first, a pin E, or its equivalent, fitted loosely to the valve, and intervening between the valve and the driver, substantially as herein set forth for the purpose specified. Second, constructing the driver in the form of an inverted cup D, with driving pins in the inside, said cup being so arranged in respect to the annular flanch *e* of the valve as to serve the double purpose of maintaining the latter in its proper position and of preventing the access of tar to the driving pins."

No. 24,081. Warren Millar, of Chicago, Ill., assignor to himself and John Nutt, of same place, for an "Improvement in sewing machines."

"But what I claim is, 1st, the hook *h*, when constructed and operated substantially as described, in combination with an eye-pointed needle and the spool case *c*, for the purpose specified. 2d, the combination of the flange *b*, and space *x*, or their equivalents, of the spool case *c*, when constructed as and for the purposes described. 3d, the sliding supports *s*, *s*, or equivalents therefor, when constructed, arranged, and operating in the manner substantially as described, for the purpose specified. 4th, I claim imparting to the spool case *c*, the tipping or rocking motion, to receive the loop of needle thread from the hook *h*, or its equivalent, in the manner and for the purpose described."

No. 24,082. Wm. Sailor, of Philadelphia, Pa., assignor to himself, Wm. L. Boyer, and H. K. Boyer, of same place, for an "Improvement in corn and cob mills."

"I claim, first, the plates *i*, *i*, with their saw teeth, when the said plates are secure obliquely on the spindle, and adjacent to the burr, and when both the burr and plates are arranged, in respect to the shell, substantially as set forth. Second, forming the burr in three or more separate pieces, adapted and secured to each other, and to the spindle, substantially as specified."

No. 24,083. Geo. W. Simmons and Geo. H. Simmons, of Bennington, Vt., assignors to themselves and Norman Millington, of Shaftesbury, Vt., for an "Improved vinegar cruet or bottle."

"What we claim as a new article of manufacture is, a bottle, cruet, or other similar vessel, for containing liquid for table, culinery, or household purposes, provided with the tubes A and B, made and fitted to them, in the manner and for the purposes herein described and represented."

Re-issues.

John R. Moffitt, of Piqua, Ohio, for an "Improvement in grain separators."—Patented 30th November, 1852.—Re-issued 23rd March, 1858.—Again re-issued 17th May, 1859.

"I claim as new, and of my invention herein, the endless chains *d*, composed of metallic links provided with protuberances or depressions, when used in combination with suitable driving chain gears to impart a positive motion to the straw carrier of a threshing and seperating machine as explained."

John R. Moffitt, of Piqua, Ohio, for an "Improvement in grain separators."—Patented 30th November, 1852.—Re-issued 23rd March, 1858.—Again re-issued 17th May, 1859.

"I claim as new, and of my invention herein, in combination with a receptacle in which the tailings are deposited by the winnowing apparatus; the arrangement of the screw elevator O, in relation to the threshing cylinder for the purpose of returning the tailings to be rethreshed, as set forth."

John R. Moffitt, of Piqua, Ohio, for an "Improvement in grain separators."—Patented 30th November, 1852.—Re-issued 23rd March, 1858.—Again re-issued 17th May, 1859.

"I claim the reversible screw (k^2), and delivery spout l^2 m^2, arranged, adapted, and constructed, substantially in the manner described, with and to the discharging spout of the 'fanning mill' or 'shoe' of a threshing machine, so as to be isolated from the winnowing arrangement, and made to deliver at either one side or the other of the machine, as set forth."

John R. Moffitt, of Piqua, Ohio, for an "Improvement in grain separators."—Patented 1st December, 1857.—Re-issued 17th May, 1859.

"I claim as new, and as of my invention herein, the construction and arrangement (substantially as described) of the rotary beater A, within the apron, in combination with the falling sections B^{111}, operating in the manner and for purposes set forth."

John R. Moffitt, of Piqua, Ohio, for an "Improvement in grain separators."—Patented 1st December, 1857.—Re-issued 17th May, 1859.

"I claim as new, and of my invention herein, the arrangement of disconnected shafts H, H^1, carrying pinion chain gears E, *e*, E^1, e^1, rotated at equal speeds from a single shaft or driver, and acting to drive the endless apron from its lower end, while permitting the escape of the straw through the lower openings of the apron, as set forth."

William Gardner, of New York, N. Y., for an "Improvement in machinery for preparing oval picture frames."—Patented 17th August, 1858.—Re-issued 15th March, 1859.—Again re-issued 17th May, 1859.

"I claim, the combination of a scraper adapted to the form of the molding with the revolving face plate of a lathe, when the said scraper is arranged to be self-adjusting laterally to the said molding, for the purpose herein set forth."

C. Aultman and Co., of Canton, Ohio, assignees of Philo Sylla and Augusta Adams, of Elgin, Ill., for an "Improvement in grain and grass harvesters." Patented 20th September, 1853.—Re-issued 17th May, 1859.

"I claim, first, an elevated binding table, in combination with the platform for receiving the grain as it is cut, substantially as set forth. Second, the combination with the binding table of one or more binder's stands, on a lower level than that of the table, substantially as set forth. Third, the combination of a binding table with a binder's stand, having

an elevated side for the binder to rest his legs against, and thereby steady himself without the aid of his arms, both of which are thus left at liberty to do the binding, substantially as set forth. Fourth, the arrangement of the rakers and binder's stands, substantially as herein set forth, so that the grain may be raked from the platform, and delivered upon the binder's table before the several binders' stands, in the manner substantially as set forth. Fifth, the arrangement of the dumping tray with the rakers and binders' stands, substantially as set forth."

C. Aultman and Co., of Canton, Ohio, assignees of Philo Sylla and Augustus Adams, of Elgin, Ill., for an "Improvement in grain and grass harvesters." —Patented 20th September, 1853.—Re-issued 17th May, 1859.

"I claim, first, the combination of the finger beam and the main frame with a yielding coupling arm J, whereby the progressive movement of the finger beam over the ground will be controlled by the main frame, and its upward and downward movements by the undulations of the ground over which it is drawn, substantially as herein set forth. Second, the combination of a yielding coupling arm (J), and a yielding brace bar (k), with the finger beam and main frame, substantially as herein set forth. Third, the combination of the yielding bars J, K, and k^1, and the removable bolts L^1, L^2, or the equivalent thereof, with the finger beam and main frame, whereby the finger beam may be allowed to slide loosely on the ground, to adapt the machine to mowing, or be held firmly above the ground, to adapt the machine to reaping, substantially as herein set forth."

C. Aultman and Co., of Canton, Ohio, assignees of Philo Sylla and Augustus Adams, of Elgin, Ill., for an "Improvement in grain and grass harvesters." —Patented 20th September, 1853.—Re-issued 17th May, 1859.

"Claim.—The short finger beam in combination with the yielding connection with the main frame or its equivalent, substantially as herein set forth."

C. Aultman and Co., of Canton, Ohio, assignees of Philo Sylla and Augustus Adams, of Elgin, Ill., for an "Improvement in grain and grass harvesters." —Patented 20th September, 1853.—Re-issued 17th May, 1859.

"Claim.—The combination of the finger beam with the hinges by which it is drawn, arranged above the plane of the cutter, substantially as herein set forth."

C. Aultman and Co., of Canton, Ohio, assignees of Philo Sylla and Augustus Adams, of Elgin, Ill., for an "Improvement in grain and grass harvesters." —Patented 20th September, 1853.—Re-issued 17th May, 1859.

"Claim.—The combination of a counterpoise weight, or the equivalent thereof, with that end of the finger beam next the main frame, to equalize its pressure upon the ground, substantially as set forth. Also the combination of a counterpoise weight or the equivalent thereof, with each or either end of the finger beam, to diminish its pressure upon the ground, substantially as set forth."

C. Aultman and Co., of Canton, Ohio, assignees of Philo Sylla and Augustus Adams, of Elgin, Ill., for an "Improvement in grain and grass harvesters." —Patented 20th September, 1853.—Re-issued 17th May, 1859.

"Claim.—The combination of a stop with the mechanism for connecting the finger beam with the main frame and allowing it to rise and fall, substantially as herein set forth."

Design.

David Hathaway, of Troy, N.Y., assignor to Fuller Warren and Co., of Troy, N.Y., for a "Design for a door or plate of a stove."

"Claim.—The ornamental design for a door or plate of a stove, as herein described and shown in the annexed photographic drawing."

Additional Improvements.

Samuel F. Hodge, of Detroit, Mich., for an "Improvement in "Ore crushing machines."—Patented 26th May, 1857.—Additional Improvement dated 17th May, 1859.

"Claim.—The alternate lifting and dropping of a stamper or hammer by means of the combination of the vertical rod with two or more clamping rollers, the peripheries of which are not complete circles."

Samuel B. Spaulding, of Brandon, Vt., for an "Improvement in cooking stoves."—Patented 22nd June, 1858.—Additional Improvement dated 17th May, 1859.

"I claim the extension of the flues under the hearth, substantially as described for the purposes set forth."

Extension.

Nelson Goodyear, late of Newtown, Conn. (Henry B. Goodyear, administrator), for an "Improvement in the manufacture of india rubber fabrics." —Patented 13th May, 1845.

"I claim the intermingling and combining fibrous substances with the gum in forming india-rubber fabrics, solid and firm in the body with a smooth surface resembling leather."

THE ALPHABETICAL INDEX of APPLICATIONS for PATENTS and PATENTS GRANTED, from the 1st January to the 31st December, 1858. Price 8*s*.

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. Curtis for a Patent. Price 1*s*.

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s*. 6*d*.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s*. per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

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No. 566. TUESDAY, JUNE 7, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

214. JOHN SMITH and WILLIAM HENRY SMITH, of 8, Upper Fountain Place, City Road, in the county of Middlesex, Manufacturers, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Certain improvements in manufacturing paper, and in producing watermarks, patterns, figures, letters, and devices thereon, and in the construction of the mechanism employed therein."

215. And JOHN SAVORY, of 143, New Bond Street, Chemist and Druggist, and WILLIAM ROBERT BARKER, of the same place, Chemist, have given the like notice in respect of the invention of "Improvements in bottles for medicines and poisons."

As set forth in their respective petitions, both recorded in the said office on the 24th day of January, 1859.

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244. And WILSON AGER, of Rhorsburg, in the county of Columbia, state of Pennsylvania, United States of America, has given the like notice in respect of the invention of "An improvement in machinery for cleaning rice."

245. And THOMAS HARTSHORNE, of West Bromwich, in the county of Stafford, Brass Founder, has given the like notice in respect of the invention of "An improved metal to be used for making journey brasses for mills, rollers, forges, and all kinds of shafts and machinery, and also for shipping and for bearings for shafts and journey brasses in general."

246. And ELIJAH DIXON, of Preston, in the county of Lancaster, Mechanic, and HENRY WHITTAKER, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in apparatus used in weaving textile fabrics."

As set forth in their respective petitions, all recorded in the said office on the 27th day of January, 1859.

255. And IGNAZIO ZACHERONI (native of Italy), residing at Liverpool, in the county of Lancaster, Artist, has given the like notice in respect of the invention of "An improved mode or method of preventing the escape of smoke into the atmosphere, and in the construction of 'chimney pots' or 'tops' for curing smoky chimneys."

256. And WILLIAM ROBERTSON, of the city of Manchester, in the county of Lancaster, Mechanician, has given the like notice in respect of the invention of "A new apparatus for propelling boats on canals, rivers, and lakes of moderate depth."

259. And FREDERIC PRINCE, of 138, New Bond Street, in the county of Middlesex, Gun Maker, has given the like notice in respect of the invention of "A new breech-loading gun."

As set forth in their respective petitions, all recorded in the said office on the 28th day of January, 1859.

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272. And THOMAS PLUNKETT SMITH, of Stanmore, in the county of Middlesex, Schoolmaster, has given the like notice in respect of the invention of "An apparatus for guiding or directing the pen or pencil writing or drawing."

274. And JOHN RAYWOOD, Engineer, of Wentworth, in the county of York, has given the like notice in respect of the invention of "Certain improvements in the construction and method of working sewing machines."

276. And JAMES ROBERTSON, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in details by which motive force is transmitted in machinery."

As set forth in their respective petitions, all recorded in the said office on the 31st day of January, 1859.

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283. And SAMUEL BIRCHALL EVELEIGH, of Salford, in the county of Lancaster, Hat Manufacturer, has given the like notice in respect of the

invention of "An improved form or construction of hats or covering for the head."
As set forth in his petition, recorded in the said office on the 1st day of February, 1859.

297. And EDWARD WILKINS, of No. 7, Addington Place, Camberwell, in the county of Surrey, Gentleman, has given the like notice in respect of the invention of "Improvements in drain pipes and tiles for draining and liquid manuring land."

301. And SAMUEL TEARNE, of Birmingham, in the county of Warwick, Japanner, has given the like notice in respect of the invention of "Improvements in ornamenting surfaces."
As set forth in their respective petitions, both recorded in the said office on the 2nd day of February, 1859.

307. And THOMAS STORER, of Birmingham, in the county of Warwick, Undertaker and Funeral Carriage Proprietor, has given the like notice in respect of the invention of "A new or improved funeral carriage."
As set forth in his petition, recorded in the said office on the 3rd day of February, 1859.

330. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in the means or apparatus of preserving grain, flour, eggs, and other vegetable and animal substances."—A communication from abroad by Louis Jacques Chateau, of Paris, Notary.
As set forth in his petition, recorded in the said office on the 4th day of February, 1859.

335. And THOMAS SYKES, of Cleckheaton, in the county of York, Manufacturing Chemist, and BENJAMIN CLIFFORD SYKES, of the same place, M.D., have given the like notice in respect of the invention of "Improvements in obtaining or separating oily, fatty, greasy, tarry, waxy, and resinous substances from oleaginous seeds, nuts and fruits, wool, silk, hair, cotton, flax, line, hemp, furs, skins, leather, bones, fish and other animal matters and refuse, woollen and cotton waste and refuse, also textile fabrics and refuse, grease produced in various branches of industry, indigo lac, lac dye, and other dyes."

336. And THOMAS RUSSELL AYERST, of Newenden, in the county of Kent, Book Keeper, has given the like notice in respect of the invention of "Improvements in breach loading guns and other fire arms."—A communication from abroad by James Hunter Sears, of Brantford, in the county of Brant, Upper Canada.
As set forth in their respective petitions, both recorded in the said office on the 5th day of February, 1859.

347. And JOHN WILSON, of 55, John Street, Sunderland, has given the like notice in respect of the invention of "Improvements in ventilating mines, and in combining apparatus used for such purpose."
As set forth in his petition, recorded in the said office on the 7th day of February, 1859.

349. And EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in machinery or apparatus for sorting and numbering the threads or filaments of silk, or other fibrous materials."—A communication from Fabius Mainardi, Merchant, of Lyons, in the empire of France.

359. And THOMAS STOKES CRESSEY, of High Street, Homerton, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in machinery used in the manufacture of casks."
As set forth in their respective petitions, both recorded in the said office on the 8th day of February, 1859.

431. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved mowing machine or grass harvester." — A communication from abroad, by John Peter Adriance, of the United States of America.
As set forth in his petition, recorded in the said office on the 16th day of February, 1859.

499. And JOHN ROBINSON, of Lower House, near Burnley, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Improvements in machinery and apparatus applicable to machines for spinning and doubling."
As set forth in his petition, recorded in the said office on the 24th day of February, 1859.

511. And THOMAS CALLENDAR HINDE, of Dudley, in the county of Worcester, Iron Merchant, and GEORGE JAMES HINDE, of Wolverhampton, in the county of Stafford, Merchant, have given the like notice in respect of the invention of "Improvements in coating iron with copper or alloys of copper."
As set forth in their petition, recorded in the said office on the 25th day of February, 1859.

556. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction of barometers, or instruments to indicate pressure."—A communication from Mr. Alfred Nobel, of Paris, a foreigner residing abroad.
As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

702. And JAMES HOWDEN and ALEXANDER MORTON, of Glasgow, in the county of Lanark, North Britain, Engineers, have given the like notice in respect of the invention of "Improvements in apparatus for obtaining and regulating motive power."
As set forth in their petition, recorded in the said office on the 19th day of March, 1859.

886. And THOMAS SPENCER, of 192, Euston Road, Euston Square, London, Analytical and Consulting Chemist, has given the like notice in respect of the invention of "Improvements in the economical treatment of refuse or waste matter containing sulphur."
As set forth in his petition, recorded in the said office on the 9th day of April, 1859.

927. And James Apperly, Cloth Manufacturer, and William Clissold, Engineer, both of Dudbridge, in the county of Gloucester, have given the like notice in respect of the invention of "An improved construction of fulling machine."
As set forth in their petition, recorded in the said office on the 13th day of April, 1859.

978. And Joseph Morton and Henry Shaw Morton, trading under the style or firm of Morton and Son, of Sheffield, in the county of York, Stove Grate Manufacturers, have given the like notice in respect of the invention of "Improvements in hearth-plates or ash-pans."
As set forth in their petition, recorded in the said office on the 18th day of April, 1859.

998. And James Apperly, Cloth Manufacturer, and William Clissold, Engineer, both of Dudbridge, in the county of Gloucester, have given the like notice in respect of the invention of "Improved apparatus for oiling wool."
As set forth in their petition, recorded in the said office on the 20th day of April, 1859.

1004. And John Davies, of Tetbury, in the county of Gloucester, Machinist, has given the like notice in respect of the invention of "A new or improved apparatus for ringing door bells, and a bolt to be used with the said apparatus, and for other purposes to which the said bolt is or may be applicable."
As set forth in his petition, recorded in the said office on the 21st day of April, 1859.

1055. And Henry Richardson Fanshawe, late of Messrs. Silver and Company's Works, North Woolwich, now of 13, Russell Place, Old Kent Road, in the county of Surrey, India Rubber Manufacturer, has given the like notice in respect of the invention of "Improved apparatus or mechanism for drawing-off, filtering, and guaging liquids in butts, barrels, casks, and such like vessels, preserving the contents from deterioration from contact with atmospheric air."
As set forth in his petition, recorded in the said office on the 27th day of April, 1859.

1132. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in cannon and other fire arms, and in projectiles, wads, and cartridges to be used therewith."—A communication from abroad by John Webster Cochran, of New York.
As set forth in his petition, recorded in the said office on the 5th day of May, 1859.

1160. And Frederick Vernon Hadlow, of 8, Prince Albert Street, Brighton, in the county of Sussex, Engraver, has given the like notice in respect of the invention of "An improved stamp for marking linen and other wearing apparel."

1163. And Alexander Morton, of Morton Place, Kilmarnock, county of Ayr, has given the like notice in respect of the invention of "Improvements in means or apparatus employed in the weaving of figured fabrics."
As set forth in their respective petitions, both recorded in the said office on the 9th day of May, 1859.

1171. And John Norman, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in furnaces."

1172. And Robert Thomson, of Glasgow, in the county of Lanark, North Britain, Manager, has given the like notice in respect of the invention of "Improvements in shuttles."
As set forth in their respective petitions, both recorded in the said office on the 10th day of May, 1859.

1201. And Thomas Vicars, senior, Thomas Vicars, junior, and Thomas Ashmore, of Liverpool, Engineers, and James Smith, of the same place, in the county palatine of Lancaster, Baker, have given the like notice in respect of the invention of "Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith."
As set forth in their petition, recorded in the said office on the 13th day of May, 1859.

1216. And William Midworth, of the firm of Messrs. John Midworth and William Midworth, of Newark-upon-Trent, in the county of Nottingham, Engineers, Iron Founders and Ironmongers, have given the like notice in respect of the invention of "An improved iron for the use of laundries, tailors, or other purposes."

1218. And John Clark, of Glasgow, in the county of Lanark, North Britain, Wholesale Stationer, has given the like notice in respect of the invention of "Improvements in envelopes, and in machinery or apparatus for gumming, embossing, folding, counting, and otherwise treating the same, and in part applicable in the treatment of note and other writing paper."
As set forth in their respective petitions, both recorded in the said office on the 16th day of May, 1859.

1226. And Amédée Etienne Charles Joseph Reynaud de Trets, of Marseilles, in the French empire, Gentleman, has given the like notice in respect of the invention of "An improved composition for splitting rock."

1228. And Charles Law, of Wolverhampton, in the county of Stafford, Lockmaker, has given the like notice in respect of the invention of "Improvements in the construction of locks."
As set forth in their respective petitions, both recorded in the said office on the 17th day of May, 1859.

1249. And George Robinson Sampson, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "A new and useful improvement in propelling navigable vessels through water."—A communication from John Taggart, a resident of Roxbury, of the state of Massachusetts, of the United States of America.
As set forth in his petition, recorded in the said office on the 20th day of May, 1859.

1265. And John Hutchinson Mason, of the town and county of the town of Nottingham, Lace Manufacturer, and George Lee Baxter, also of the said town and county of the town of Nottingham, Dyer, have given the like notice in respect of the invention of "Ornamenting lace or other twisted fabrics."

1273. And ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in steam hammers."

As set forth in their respective petitions, both recorded in the said office on the 23rd day of May, 1859.

1289. And RICHARD ATWOOD GLASS, of 115, Leadenhall Street, in the city of London, Submarine Telegraph Cable and Wire Rope Manufacturer, has given the like notice in respect of the invention of "Improvements in submarine electric telegraph cables."

As set forth in his petition, recorded in the said office on the 25th day of May, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of LETTERS PATENT which passed the Great Seal on the

7th June, 1859.

2797. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the county of Kent, Gentleman, for an invention of "Improvements in the construction of taps, valves, cocks, spiggotts, or other apparatus or instruments for guaging or for drawing off the liquid or fluid contents of any cask, butt, vat, barrel, or other vessel."—Dated 7th December, 1858.

2810. GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, for an invention of "Improvements in apparatus applicable to the manufacture and revivification of animal or vegetable charcoal."—Dated 8th December, 1858.

2815. ANDREW LAMB and WILLIAM ALLTOFT SUMMERS, both of Southampton, in the county of Hants, Engineers, for an invention of "Improved arrangements of apparatus for superheating steam."—Dated 8th December, 1858.

2819. ROBERT LLOYD BURROWES, of St. Helen's, in the county of Lancaster, Professor of Music, and JOHN KNOWLES, junior, of the same place, Mine Surveyor, for an invention of "Certain improvements in the construction of piano-fortes and organs."—Dated 9th December, 1858.

2820. JOHN BARROW, junior, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in the treatment of coal gas tar, and of the oils obtained by the distillation of the same, and for the application of substances obtained thereby."—Dated 9th December, 1858.

2822. JOSEPH ECCLES, of Blackburn, in the county of Lancaster, Cotton Manufacturer, for an invention of "Improvements in arrangements and machinery for preparing for manufacture and for manufacturing clay, and other plastic earths into bricks, tiles, pipes, and other articles formed of such materials."—Dated 9th December, 1858.

2825. JOHN ELDER, of Glasgow, Engineer, for an invention of "Improvements in paddle wheels."—Dated 9th December, 1858.

2826. JAMES STEWART, of 69, Tottenham Court Road, in the county of Middlesex, for an invention of "Improvements in the construction of the action of pianofortes."—Dated 9th December, 1858.

2827. THOMAS ALLEN, of Clifton, Bristol, Ironmonger, for an invention of "Improvements in folding bedsteads."—Dated 9th December, 1858.

2829. HENRY WILSON, of Norton, in the county of Durham, Brass Finisher, for an invention of "Improvements in the construction of pumps."—Dated 9th December, 1858.

2830. ETIENNE LÉON PENSUETE, of Dunkirk, in the empire of France, for an invention of "Improvements in apparatus for driving or for drawing up piles by steam."—Dated 9th December, 1858.

2843. STEPHEN DUDGEON, of Sheffield, in the county of York, for an invention of "An improved gas regulator."—Dated 11th December, 1858.

2869. HENRY BRIDGES, of Bridgewater, in the county of Somerset, Railway Carriage Builder, for an invention of "Improvements in the means of working breaks on carriages on railways."—Dated 15th December, 1858.

13. WILLIAM ECCLES, of Thirty-four, Surry Street, Strand, Westminster, in the county of Middlesex, and of the University of Cambridge, Master of Arts, for an invention of "Improving the machinery or apparatus for regulating the tension of the twist threads or warp whilst it is weaving in power looms into cloth."—Dated 1st January, 1859.

104. CHARLES NEALE MAY, of Devizes, in the county of Wiltshire, Engineer, for an invention of "An improved heat indicator."—Dated 13th January, 1859.

159. WILLIAM AUGUSTUS FREDERICK POWELL, of Bristol, in the county of Somersetshire, Potter, for an invention of "Improvements in stopping or closing jars and bottles."—Dated 19th January, 1859.

647. THOMAS PATSTONE, of Birmingham, in the county of Warwick, Warehouse Clerk, for an invention of "Improvements in shades or glasses for gas and other lamps, and in the supports of the said shades or glasses." — Dated 14th March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 4th June,* 1859, *inclusive.*)

2nd June.

1424. JOSEPH DAVIS, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "A new or improved method of manufacturing the small coke commonly called breezes, which said method of manufacture economises heat and effects suppression or partial suppression of smoke."—Dated 17th June, 1856.

3rd June.

1314. GEORGE JOSIAH MACKELCAN, of Islington, in the county of Middlesex, Engineer, for an invention of "Improvements in the manufacture of rollers adapted to calico and other printing."—Dated 3rd June, 1856.

1333. DUNCAN MORRISON, of Bordesley Works, Birmingham, for an invention of "Improvements in the manufacture of articles from malleable cast iron."—Dated 4th June, 1856.

4th June.

1363. Charles William Siemens, of 7, John Street, Adelphi, in the county of Middlesex, for an invention of "Improvements in engines wherein super-heated steam is used."—Dated 9th June, 1856.

1419. William Henry Barlow, of Derby, Civil Engineer, and William Henry Woodhouse, of Parliament Street, Westminster, Civil Engineer, for an invention of "Improvements in connecting and securing the ends of rails of railways."—Dated 16th June, 1856.

1531. Ebenezer Rogers, of Abercarn, in the county of Monmouth, and Herbert Mackworth, of Clifton, in the county of Gloucester, for an invention of "Improvements in coking and in apparatus for that purpose."—Partly a communication.—Dated 30th June, 1856.

Notices of Application for Leave to enter a Disclaimer, &c.

In the matters of Letters Patent for Great Britain, dated 11th October, 1853, granted to James Hall Nalder, of Alvescott, in the county of Oxford, Farmer, and John Thomas Knapp, of Clanfield, in the same county, Machinist, for their invention for "Improvements in winnowing or dressing corn."

Notice is hereby given, that James Hall Nalder has applied by Petition to the Commissioners of Patents, according to the Statute in that case made and provided, for leave to enter a Disclaimer and Memorandum of Alteration of parts of the Specification of the said Letters Patent.

W. and J. H. Johnson,
47, Lincoln's Inn Fields,
London, W.C.,
June 2, 1859. Agents for the Patentees.

In the matter of Letters Patent granted to Edmund Alfred Pontifex, of the firm of Pontifex and Wood, of Shoe Lane, in the city of London, Chemical Manufacturers, for "Improvements in the manufacture of tartaric and citric acids, and tartrate of potash and soda."—Dated 12th March, 1856, No. 598.

Notice is hereby given, that the said Edmund Alfred Pontifex has applied by Petition to the Commissioners of Patents, according to the Statute in that case made and provided, for leave to enter a Disclaimer of certain parts of the Specification of the said Letters Patent.

R. A. Brooman,
166, Fleet Street, London,
Agent for the Patentee.

Errata in Journal of 3rd June.

1263. For "Thomliebank" read "Thornliebank."
1275. After "United States" add "of America."

List of Specifications published during the week ending 3rd June, 1859.

No.	Price.	Subject-Matter.
		(*Disclaimer*, 1857.)
571	9*d.*	Manufacture of cast-iron pipes.
		1859.
2379	1*s.* 1*d.*	Power looms for weaving.
2391	6*d.*	Pocket stereoscopes.
2394	3*d.*	Substitute for gutta percha, caoutchouc, &c.
2398	1*s.* 4*d.*	Furnaces for the combustion of smoke.
2399	9*d.*	India-rubber pouches for tobacco, &c.
2400	3*d.*	Picker for looms.
2404	10*d.*	Carding engines, &c.
2405	6*d.*	Apparatus for the manufacture of cap or bonnet fronts.
2406	1*s.* 4*d.*	Machinery or apparatus for suspending paper or woven fabrics to be dried.
2407	3*d.*	Lubricating the slide valves and pistons of steam engines, &c.
2408	6*d.*	Spinning and doubling machinery.
2410	5*d.*	Hats and coverings for the head.
2411	1*s.* 10*d.*	Electric telegraph cables, &c.
2412	5*d.*	Manufacture of cocks.
2413	4*d.*	Compounds or substitutes for hard wood, metal, leather, or felting, &c.
2414	3*d.*	Cocks, taps, or valves.
2415	6*d.*	Manufacture of anvils.
2417	3*d.*	Manufacture of steel.
2418	6*d.*	Machinery to be used as a new motive power.
2419	9*d.*	Arranging magneto-electric machines for medical and other purposes.
2421	3*d.*	Obtaining motive power.
2422	11*d.*	Hooks and eyes, &c.
2423	9*d.*	Manufacture of rollers or cylinders for printing fabrics.
2424	10*d.*	Reaping and mowing machines.
2425	3*d.*	Photography.
2426	3*d.*	Apparatus for turning over the leaves of books.
2427	7*d.*	Railway signals.
2428	8*d.*	Coupling for railway carriages, &c.
2430	7*d.*	Manufacture of hats and other coverings for the head, &c.
2431	3*d.*	Manufacture of starch.
2432	3*d.*	Manufacture of bird-cages.
2433	1*s.*	Safety switch box and gear.
2434	6*d.*	Submarine telegraph cables.
2435	6*d.*	Disconnecting boats from davit blocks, &c.
2436	7*d.*	Fire-arms.
2437	3*d.*	Sleeve links.
2440	3*d.*	Respirators
2441	8*d.*	Buttons, &c.
2442	7*d.*	Buoy.
2443	3*d.*	Machinery for driving and curbing horses.
2444	3*d.*	Cartridges.
2445	3*d.*	Electro-magnetic telegraphs.
2446	3*d.*	Boots and shoes.
2447	3*d.*	Railway carriage brakes.
2448	3*d.*	Reservoirs, tanks, culverts, &c.
2449	3*d.*	Treating waste vulcanized india rubber.
2450	3*d.*	Manufacture of moreens, &c.
2451	3*d.*	Manure.

List of Specifications—*continued.*

No.	Price.	Subject-Matter.
2452	3*d.*	Application of mineral powder for disinfecting, preserving, &c.
2457	3*d.*	Application of substances for sizing paper.
2458	1*s.* 4*d.*	Application of motive power to ploughs and other agricultural implements.
2459	3*d.*	Breech-loading fire-arms.
2486	4*d.*	Manufacture of steel wire.
2509	3*d.*	Apparatus for ginning and cleaning cotton.
2561	3*d.*	Manufacture of yellow pigment.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Mornings	922
Evenings	901
Total	1823

Since the opening of the Museum Free Daily (May 12, 1858,)—103,840.

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B. WOODCROFT.

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B. WOODCROFT.

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THE

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No. 567. FRIDAY, JUNE 10, 1859. Price 2d.

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1234. To JOHN BRENNAND, of Manchester, in the county of Lancaster, Calico Printer, for the invention of "Certain improvements in the construction of carriages for the conveyance of passengers, goods, and minerals, and also in the apparatus for propelling the same."

On his petition, recorded in the Office of the Commissioners on the 18th day of May, 1859.

1258. To THOMAS STOKES CRESSEY, of Burton-upon-Trent, for the invention of "Improvements in machinery for cutting staves for casks."

On his petition, recorded in the Office of the Commissioners on the 21st day of May, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

10th June, 1859.

2836. ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, North Britain, Engineer, for an invention of "Improvements in obtaining motive power by means of electricity, magnetism, and electro-magnetism."—Dated 10th December, 1858.

2837. CHARLES HODGSON, of Ballard Rathdrum, in the county of Wicklow, Ireland, Esquire, for an invention of "Improvements in the manufacture of fuel from peat, and in apparatus employed therein, part of which is also applicable to the moulding of bricks, tiles, and other plastic materials."—Dated 10th December, 1858.

2849. ALEXANDER ROLLASON, of Birmingham, in the county of Warwick, Chemist, for an invention of "Improvements in the manufacture of waterproof tissues, and in applying such waterproof material to woven fabrics and manufactured fibrous goods."—Dated 11th December, 1858.

2850. JOHN ANDERTON CARRUTHERS, Reed Maker, and THOMAS BLACKBURN, Mechanic, both of Blackburn, in the county of Lancaster, for an invention of "Improvements in apparatus for guiding and regulating the warp threads in the operations of warping, tape-sizing, looming, and weaving."—Dated 13th December, 1858.

2851. ROBERT WHITTAM, of Accrington, in the county of Lancaster, Engraver to Calico Printers, for an invention of "Improvements in machinery or apparatus for tracing designs from an engraved roller, or from an engraver's sketch upon steel or other metallic surfaces used as dies by engravers to calico printers."—Dated 13th December, 1858.

2854. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the county of Kent, Gentleman, for an invention of "Improvements in candlesticks, lamps, and lanthorns."—Dated 13th December, 1858.

2855. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in twisting and otherwise operating upon threads, twine, or cords, and in apparatus for performing the same."—A communication from Messieurs Edmond Empis and Co., residing at Wazemines, near Lille, France.—Dated 13th December, 1858.

2864. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention of "An improvement in transmitting electric telegraph signals."—A communication from T. A. M. Sortais, residing at Lisieux France.—Dated 14th December, 1858.

2866. Ferdinand Jossa, of Bishop Auckland, in the county of Durham, Chemist, for an invention of "Improvements in furnaces for generating steam, and other purposes."—Dated 14th December, 1858.

2867. John Pendlebury, of Crumpsall, in the county of Lancaster, Bleacher, for an invention of "Certain improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials."—Dated 15th December, 1858.

2876. Jonathan Wardill, of Commercial Road East, in the county of Middlesex, Engineer, for an invention of "An improved stopper or controller to stop and control the running out of chains and ropes."—Dated 15th December, 1858.

2880. Robert Wilson, senr., and Robert Wilson, junr., of Livesy Street, Manchester, in the county of Lancaster, for an invention of "Certain improvements in the preparation of leather in combination with india rubber and other materials for the manufacturing of hose, pipes, and other purposes where leather is required to be impervious to water, steam, or frost."—Dated 16th December, 1858.

2882. Abel Stokes, of Birmingham, in the county of Warwick, Manufacturer, and Frederick Joseph Stokes, of Birmingham aforesaid, Manufacturer, for an invention of "New or improved machinery for the manufacture of screws."—Dated 16th December, 1858.

2886. John Walter Friend, of Freemantle, Southampton, Watch and Clock Maker, for an invention of "Improved apparatus for ascertaining and registering the depth and flow of liquids, and the distances run by ships at sea."—Dated 16th December, 1858.

2929. Frederick Ransome, of Ipswich, for an invention of "Improvements in the manufacture of grinding and rubbing surfaces."—Dated 22nd December, 1858.

2937. Andrew Barclay, of Kilmarnock, in the county of Ayr, North Britain, Engineer, for an invention of "Improvements in obtaining and distributing or applying electricity and magnetism, and in obtaining motive power therefrom."—Dated 23rd December, 1858.

2946. John Railton, of Blackburn, in the county of Lancaster, Machine Maker, and Seth Lang, of the same place, Mechanic, for an invention of "Improvements in looms."—Dated 24th December, 1858.

2956. Joseph Smethurst, of the firm of Messieurs Martin and Smethurst, of Guide Bridge, in the county of Lancaster, Engineers, for an invention of "Certain improvements in metallic pistons."—Dated 27th December, 1858.

3003. John Lees, of Park Bridge, near Ashton-under-Lyne, in the county of Lancaster, Roller Maker, and William Heap, of Ashton-under-Lyne aforesaid, Tool Maker, for an invention of "Improvements in machinery for punching square holes in the ends of rollers and other articles."—Dated 31st December, 1858.

55. George Kennedy Geyelin, Civil Engineer, of London, for an invention of "Regulating gas burners, which he calls the universal gas burners regulator.—Dated 7th January, 1859.

242. James Kerr, of 17, Bedford Terrace, Trinity Square, Southwark, in the county of Surrey, Engineer, for an invention of "Improvements in the construction of revolving fire-arms."—Dated 26th January, 1859.

434. William H. Horstmann, of the city of New York, in the county of New York, and the state of New York, U.S.A., for an invention of "Telegraphic cables, and the mode of constructing the same and laying them down."—Dated 16th February, 1859.

651. George Bell Galloway, of Newcastle on Tyne, in the county of Northumberland, for an invention of "Improvements upon and in connection with my former patents, and in the manufacture of fuel, and working steam engines more economically.—Dated 15th March, 1859.

761. George Haseltine, Gentleman, of Washington, in the district of Columbia, United States of America, now of 37, King Street, in the city of London, for an invention of "Improvements in the manufacture of small metallic chains."—A communication by Edwin H. Perry, of Rhode Island, United States.—Dated 26th March, 1859.

858. Francis Maltby Crichton, of Stoke Abbey, Stoke Bishop, in the parish of Westbury upon Frym, in the county of Gloucester, Gentleman, for an invention of "Improvements in clocks or timekeepers."—Dated 5th April 1859.

916. Philip Hill, of Manchester, in the county of Lancaster, Weaver, and John Moore, of Salford, in the same county, Small Ware Manufacturer, for an invention of "Improvements in weaving double-pile fabrics."—Dated 12th April, 1859.

919. James Crossdale, of Rotherfield Street, Lower Islington, in the county of Middlesex, Boot and Shoe Maker, for an invention of "Certain improvements in boots and shoes."—Dated 12th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 7th June*, 1859, *inclusive.*)

6th June.

1358. William Edward Wiley, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention of "Improvements in the manufacture of metallic pens and penholders."—Dated 7th June, 1856.

7th June.

1375. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in printing shawls and other fabrics, and in the machinery employed therein."—A communication from Monsieur Herrmann.—Dated 10th June, 1856.

1381. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in projectiles for ordnance."—A communication.—Dated 10th June, 1856.

1387. James Combe, of Belfast, in the kingdom of Ireland, Machine Maker, for an invention of "Improvements in machinery for carding and roving tow and other fibrous substances, part of which improvements is applicable for transmitting motion in other mechanism."—Dated 11th June, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Invention Delivered on the 26th May, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 563 of this Journal.)

7281. H. F. Forbes, represented by L. Duru, of Brussels, for an imported invention of "Copying presses."—Dated 27th March, 1859.—(French Patent, 7th March, 1859.)

7430. A. J. Pauchenne, of Saint-Remi, for "Hinged lever revolvers."—Dated 20th April, 1859.

7431. Gourmont Brothers and Co., of Dinant, for "A system of boilers for breweries."—Dated 21st April, 1859.

7460. J. Badot, of Liége, for "A system of double optometers, applicable to all eye-glasses."—Dated 23rd April, 1859.

7552. J. F. Persoz, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in oxydizing bodies and roasting sulphurous ores."—Dated 14th May, 1859.—(French Patent, 9th May, 1859.)

7553. J. Leslie, represented by A. Anoul, Ixelles, for an imported invention of "Improvements in the manufacture of lighting gas."—Dated 14th May, 1859.—(English Patent, 18th November, 1858.)

7554. A. P. Rochette, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in the manufacture of soft soap."—Dated 14th May, 1859.—(English Patent, 12th May, 1859.)

7555. J. B. Van Gindertaelen, of Brussels, a Patent of Improvement for "Pumps for acid liquids."—Dated 16th May, 1859.—(Original Patent, 6th August, 1857.)

7556. W. B. Nathall, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in fire-arms and projectiles."—Dated 16th May, 1859.—(English Patent, 10th May, 1859.)

7557. L. Serbat, represented by F. Mahieu, of Brussels, for "Using old leather for preventing the incrustation of boilers."—Dated 16th May, 1859.

7558. A. Van Godtsenhoven, of Louvain, for "Manufacture of economical manure, called 'Belgian guano."—Dated 17th May, 1859.

7559. J. M. Paillard, represented by A. Hennelle, of St. Josse-ten-Noode, for "A horse-gin for thrashing, winnowing, and grinding corn."—Dated 18th May, 1859.

7560. A. Gatte, represented by A. Hennelle, of Brussels, for an imported invention of "A mode of advertizing called 'the traveller's friend.'"—Dated 18th May, 1859.—(French Patent, 12th May, 1859.)

7561. L. Maudoy, represented by A. Hennelle, of St. Josse-ten-Noode, for "An apparatus for making sand-moulds for casting metals."—Dated 18th May, 1859.—(French Patent, 13th May, 1859.)

7562. L. W. Broadwell, represented by D. de Vos-Verraert, of Brussels, for "A method of cutting millstones."—Dated 18th May, 1859.

7563. E. Gonou, of Brussels, for an imported invention of "A system of hydraulic clocks called 'gonometers.'"—Dated 18th May, 1859.—(French Patent, 18th April, 1859.)

7564. C. F. Thibaut, represented by J. Trantweire, for an imported invention of "A water gauge in steam-generators."—Dated 17th May, 1859.—(French Patent, 7th April, 1859.)

7565. L. Marque, represented by A. Depuichault, Schaerbeek, for an imported invention of "A musrole for horses."—Dated 17th May, 1859.—(French Patent, 4th December, 1858.)

7566. Parent, represented by A. Depuichault, Schaerbeck, for an imported invention of "Manufacture of manure from animal and fuel substances."—Dated 17th May, 1859.—(French Patent, 2nd February, 1859.)

7567. Pirotte and Co., represented by D. Tassin, Liége, for "A mode of superheating cylinders of steam engines and especially of draining machines."—Dated 18th May, 1859.

7568. D. Everaert, represented by C. L. de Wilde, Lokeren, for "An apparatus for cutting fodder."—Dated 17th May, 1859.

7569. Ad. Rouart, of Liege, for an imported invention of "A key for removing at once cartridges from breech-loading guns."—Dated 19th May, 1859.—(French Patent, 14th May, 1859.)

7570. G. Haseltine, represented by F. Anthoine, Brussels, for an imported invention of "Improvements in sewing machines."—Dated 19th May, 1859.—(English Patent, 5th April, 1859.)

7571. J. Oxley, represented by X. Raclot, Brussels, for an imported invention of "Improvements in the construction of carriages."—Dated 19th May, 1859.—(English Patent, 4th November, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7572. A. Bourdin, represented by H. Biebuyck, Brussels, a Patent of Improvement for "Using steam for boiling and preserving food."—Dated 20th May, 1859.—(Original Patent, 30th April, 1859.)

7573. H. Hofer, represented by H. Biebuyck, Brussels, a Patent of Improvement for "An apparatus for regulating spinning."—Dated 20th May, 1859.—(Original Patent, 7th November, 1856.)

7574. W. E. Robson, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of various compounds for joints, coatings, and other purposes."—Dated 20th May, 1859.—(French Patent, 16th May, 1859.)

7575. L. Maurissen, of Brussels, for "A measuring instrument."—Dated 20th May, 1859.

7576. H. Eckhorn, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "Improvement in gas and oil-burners."—Dated 20th May, 1859.—(English Patent, 13th April, 1859.)

7577. Danion and Co., represented by J. Pidding' ton, of Brussels, for an imported invention of "An oscillating Roman balance."—Dated 21st May, 1859.—(French Patent, 24th March, 1859.)

7578. Danion and Co., represented by J. Pidding-ton, of Brussels, for an imported invention of "An oscillating Roman balance with scales."—Dated 21st May, 1859.—(French Patent, 24th May, 1859.)

7579. J. B. P. Dauzon and L. A. P. Rolland, represented by H. Biebuyck, of Brussels, for an imported invention of ""Manufacture of cigaret-paper."—Dated 21st May, 1859.—(French Patent, 12th February, 1859.

7580. P. J. Wergifosse, of Brussels, for "A roller for ironing, folding, and lustring linen."—Dated 21st May, 1859.

7581. A. B. Delannoy, represented by F. P. Bazas, of Spy, for "A system of lubrication applicable to all kinds of wheels and transmission of movement."—Dated 21st May, 1859.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 24th May, 1859, and each bearing that date.

No. 24,084. Hiram Aldridge, of Michigan City, Ind., for an "Improved shoe for grain separators."

"I claim the endless incline elevator belt C, C, with its lags or cross slats I, in combination with the incline sieve or board F, and incline extension board R, arranged in th manner and for the purpose set forth."

No. 24,085. Geo. W. Baker, of Cochranton, Pa., for an "Improved bedstead fastening."

"I claim the box E, the hook D, and the rack F, when the same are used and combined, substantially in the manner described, and for the purposes set forth."

No. 24,086. E. Barnhart, of Shippensburgh, Pa., for an "Improvement in smut machines."

"I claim the disk D, arranged with the fluted shell E, and with the wings *c*, to operate in combination with the fluted cylinder F, which is provided with a spout *e*, substantially as and for the purpose specified."

No. 24,087. Daniel Barnum, of New York, N.Y., for an "Improvement in surface condensers."

"I claim the method substantially as specified of making yielding joints between the tubes and tube sheets in the condensing water compartments of surface condensers, and of thus compensating the expansions and contractions in the tubes by the means of leaving a portion of india rubber, or other elastic packing, immediately surrounding each tube free, so that its elasticity can yield longitudinally with the tubes, and compensate for their varying lengths without causing the packing to slip on the metal, substantially as and for the purposes specified. I claim, also, the combination of a relief valve, with yielding joints (without followers), in the condensing water compartments of surface condensers for the purpose of preventing the blowing out of the packing, and thus preserving the joints, substantially as specified."

No. 24,088. Daniel Barnum, of Jersey City, N.J., and S. G. Tyler, of Quincy, Ill., for an "Improvement in hemming guides for sewing machines."

"We claim the manner substantially as specified and shown in the drawings, Fig. 2, of arranging and constructing a hollow conical U shaped tube, and a slot *j*, in combination with a horizontally acting spring plate *c*, or its equivalent, bearing against the slot *j*, and tending to press the edge of the flexible material, when the same is placed within the slot into the tube *b*, and against the lower side of the concave surface thereof, for the purpose of aiding the hand in turning the hem on the under side and leaving the fair stitch upon the upper or right side of the garment, as specified."

No. 24,089. John W. and Leonard Batson, of Clarksville, Md., for an "Improvement in cultivators."

"We claim the arrangement of the reversible concave shovel point H, reversible shovel point F, and the cutter G, with beam A, and standards C and D, the whole being constructed and applied in the manner described, for the purpose specified."

No. 24,090. Thos. Bell, of New York, N. Y., for an "Improved rig for vessels."

"I claim the arrangement and combination of the mast C, spar B, and revolving forked mast bench A, substantially as and for the purpose herein shown and described."

No. 24,091. Ezra R. Benton, of Cleveland, Ohio, for an "Improved spring bed bottom."

"I claim the construction of a bed bottom or spring couch, consisting of a series of double springs B, B^1, and C, C^1, the the longitudinal pieces G, G^1, and the transverse slats A, A, &c., either with or without the flexible band I, when arranged as herein set forth, and operating in the manner and for the purpose specified."

No. 24,092. John Boyd, of Philadelphia, Pa., for an "Improvement in carding engines."

"I claim the combination of the rollers B and C, and scrapers D and E, for stripping the ordinary doffing cylinder of a carding engine, the whole being constructed and arranged, substantially as above described."

No. 24,093. Cornelius R. Brinkerhoff, of Batavia, N. Y., for an "Improvement in harvesting machines."

"I claim, 1st, the combination of the crank operated by the main shaft, with the rake and sweep post, to which it is attached, and the eighth arm, when arranged in the manner described. 2d, the open work divider, to divide the grain falling upon the platform from the gavel being removed therefrom by the rake, when arranged upon the rake

head, in the manner and for the purpose specified. 3d, the spring catch marked *c*, and dog marked *a*, in combination, and the location of said catch to break the forward motion of the rake, and aid its return by the spring, arranged substantially as described. 4th, the projection on the lower side of the slot or notch in the dog to arrest the catch with certainty, in the manner described. 5th, the application and arrangement of the toothed rack connected with the spring, by which the rake is caught and held after its descent upon the gavel, the rebound thereof is prevented and the gavel removed with greater certainty. 6th, the placing of a rake (having spring teeth) in the rear of the machine, for the purpose of gleaning and contracting the gavel into sheaf form, substantially as described. 7th, the combination of the cam attached to the main shaft with the arm of the rear rake, to cause it to pass over the gavels at the proper time. 8th, the ratchet cam I and lever in combination, substantially as described, for throwing both rakes into or out of action, as set forth."

No. 24,094. JOHN T. BROOKS, of New Albany, Ind., for an "Improved apparatus for heating feed water of steam boilers."

"I claim the described relative arrangement of the force pump *e*, water supply-pipe *b*, heater *d*, and steam pipe *f*, conveying steam from the upper part of the boiler or steam dome to the heater, the whole operating together in the manner set forth, to heat feed water on its passage between the pump and the boiler by means of living steam, and inject it into the lower region of the boiler."

No. 24,095. BOBT. W. BUCKLES, of Grayville, Ill., for an "Improvement in harrows."

"What I do claim is, two harrows hung to one frame, independent of each other, with two vertical toothed wheels D, D, also working independently of each other, and connected to the horizontal wheels C, C, which are actuated by means of pinions E, E, as described, for the purposes set forth."

No. 24,096. WASHINGTON BURNHAM, of Essex, Mass., for an "Improvement in ox yokes."

"I claim the mode of applying the pole ring to the yoke, viz., by means of the staple rack and the ring carrier, made so as to be capable of sliding on the rack, and with a pin passage arranged with respect to the notches of the staple rack, substantially in manner as described, the whole being for the purpose explained."

No. 24,097. J. F. CALHOUN, of Wolcottville, Conn., for an "Improved curtain rack."

"I claim the combination of tightening screw *e*, collar *g*, pulley *h*, and button *i*, for effecting the required tension on the cord, substantially in the manner and for the purposes herein above set forth."

No. 24,098. PETER S. CARHART, of Collamer, N.Y., for an "Improvement in sewing machines."

"What I claim, is, feeding the cloth by the combined action of the needle and friction pad, when the said needle and pad operate jointly and in unison, to propel the cloth, as the needle descends there through, the cloth being held in its required position by the needle during the intervals of feed, while the pad is retreating, to take a fresh feeding gripe on the cloth, essentially as specified."

No. 24,099. JOSEPH CARRIER, of Marlborough, Conn., for an "Improved bread knife."

"What I claim, therefore, and desire to secure by Letters Patent, is, the employment of the roller F, the adjustable studs D, with the collars C and thumb nuts E, substantially as and for the purpose described."

No. 24,100. M. C. CHAMBERLIN, of Johnsonburgh, N. Y., for an "Improvement in stove pipes."

"What I claim is, 1st, the employment of the spring tube B in connection with the pipe A, when the same is used in the manner and for the purpose herein specified. 2nd, the arrangement of pipe C, provided with pin *d*, with pipe A, provided with slot *a* and spring tube B, substantially in the manner, and for the purpose specified."

No. 24,101. ALBERT B. COLTON, of Athens, Geo., for an "Improvement in horse-power machines."

"What I claim is, 1st, the stationary wheel J and its hub L, when the same are placed centrally with the large driving wheel M, for giving motion to the pinions U, V, and gear wheels R, S, revolving with the driving wheel M, so as to impart a rapid rotary motion to the horizontal shaft E, having its bearings in the axes of both driving wheel M and stationary wheel J, all arranged in the manner and for the purpose herein specified. 2nd, I claim the sectional yoke G, as herein described, in combination with the annular collar N and set screws C, arranged in the manner and for the purposes herein shown."

No. 24,102. JOHN E. CRYER, of Peoria, Ill., for an "Improved joiner's bench."

"What I claim is, 1st, the movable jaw (B), constructed and arranged with reference to the permanent jaw (*b*) in such manner as to secure properly the lumber to be wrought, and at the same time to form a track or guide for the plane during the operation of jointing and squaring lumber, as herein set forth. 2nd, operating the jaw (B) by means of guides (*e*, *e*^{1}), rod (*f*), lever (*g*), and dog (*l*), substantially as herein described. 3rd, the gauge (*p*), adjustable vertically with reference to the jaws (B, *b*), in combination with the scale (*m*), substantially as and for the purposes set forth."

No. 24,103. HENRY DAVIS, of Bethlehem, Conn., for an "Improved carpet sweeper."

"I claim the arrangement of the rollers E, E^1, to operate in combination with the yielding brush B and with the scraper G, substantially in the manner and for the purpose herein specified."

No. 24,104. WM. DAVIS, of Middleburg, Md., for an "Improvement in hominy machines."

"I claim providing the outer cylinder A with apertures *a*, *a*, gauged to such a size as, while serving to discharge the hulls, also to perform the additional function of discharging the hominy as soon as reduced to the desired degree of fineness, in combination with the inner cylinder B, when the same is driven at the specific speeds, as herein described, for the purposes specified."

No. 24,105. JAMES M. DAY and E. H. A. OAKLEY, of Aiken, S. C., for an "Improvement in compositions for roofing."

"We claim the ingredients in the proportions set forth in the above specification."

No. 24,106. M. DE CAMP, of South Bend, Ind., for an "Improved millstone bush."

"I claim, 1st, the adjustable followers F, provided with convex sides and backs fitted within an oil box A, and arranged in relation with the collar D of the spindle, to operate as and for the purpose set forth. 2nd, the serrated or notched wheels *i*^{1} attached to the outer ends of the screws *i*, when used in connection with the stops *j* attached to the plates *k*, substantially as and for the purpose specified."

No. 24,107. CHAS. DOUGLAS, of Hebron, Conn., for an "Improvement in chimney caps."

"I claim, first, the valves C and D, and the manner and position in which they are suspended, as described, and for the purposes set forth. Second, the arrangement of the neck B, the top E, G, and the standards F, F, F, in combination with the valve D, or its equivalent, substantially as and for the purposes herein specified."

No. 24,108. SAML. DOWN, of New York, N. Y., for an "Improvement in dry gas meters."

"I claim constructing or arranging the mouths *a*^{1}, *b*^{1}, of the channels of communication *a*, *b*, between the inlet and outlet pipes, and the measuring chambers and valve chamber of a dry gas meter, to dip down in the wells below the said pipes, substantially as and for the purpose herein set forth."

No. 24,109. CHRISTIAN H. EISENBRANDT, of Baltimore, Md., for an "Improvement in rail road car couplings."

"I claim the plates *a*, *a*, *a*, *a*, with the springs *a*^{2}, *a*^{2}, *a*^{2}, *a*^{3}, the prong clasping grippers *b*, *c*, *c* 2, *d*, *e*, *e* 2, with the spring latch *f*, *g*, *h*, *i*, constructed, arranged, and operated, substantially as set forth. I also claim the hitching pin or bolt K, K, provided with the chain and button or ring L, L, *m*, *m*, when arranged, operated, and used in combination with the clasping prong grippers *b*, *c*, *c* 2, *d*, *e*, *e* 2, and brake lever *q*, *q*, *q*. *r*, substantially as set forth and described. I also claim the combination and arrangement of the sliding bolts *n*, *o*, *p*, with the prong clasping grippers *b*, *c*, *c* 2, *d*, *e*, *e* 2, substantially as set forth and described."

No. 24,110. JOHN A. ENGGREN, of Brooklyn, N.Y., for an "Improved device for securing lightning rods."

"I claim an insulator for lightning rods composed of a glass standard A, a spring clasp C, having shanks (*i*) and shoulders (*j*), and otherwise made as herein shown and described."

No. 24,111. CASSON EREEMAN, of Fond du Lac, Wis., for an "Improved device for clamping the bolts in circular sawing shingle machines."

"I claim the arrangement of the sliding or adjustable bar K, with weights *s* attached, or their equivalents, when used in connection with the sliding jaws D, for the purpose specified."

No. 24,112. EDWD. GARRETT, of New Orleans, La., for an "Improvement in ties for cotton bales."

"I claim the combination of the two plates *a*, &c., when made and arranged as, or substantially as has been set forth, to form a tie for iron bands for baling cotton, or for similar purposes."

No. 24,113. E. L. GAYLORD, of Terrysville, Conn., for an "Improved trunk lock."

"I claim the arrangement of the bolt B, with the springs *c*, *c*, *d*, D, and tumbler C, to operate substantially as and for the purpose herein set forth."

No. 24,114. ELISHA GEIGER, of Lancaster, Pa., for an "Improvement in horse rakes."

"I claim the arrangement of the cross bar (K), having the flat springs and heads (J), and provided with arms for actuating the supporting bar (F) with and in relation to the clearing rocker shaft, the whole being constructed and operated as herein set forth."

No. 24,115. HENRY GLOSSER, of New York, N.Y., for an "Improvement in cases for stereoscopic pictures."

"I claim, 1st, the arrangement of two or more pairs of eye glasses on the same side of a stereoscopic case, so that several persons can look at the pictures at one and the same time, substantially in the manner herein specified. 2nd, the picture frames D, arranged with cogs *i*, or their equivalent, at their lower edges, in combination with the cams *j*, j^1, j^{11}, and j^{111}, or their equivalents, whereby the same are made to travel from one pair of eye glasses to the other, substantially as herein described. 3rd, giving a double motion to the picture frames, first in a direction transversely through the case by the action of the cam *g*, or its equivalent, on the endless belt E, and, second, in a longitudinal direction by the action of the cams *j*, substantially as and for the purpose set forth. 4th, the arrangement and combination of the endless belts E and E^1, to operate in relation to the chaunel G, substantially as and for the purpose described. 5th, the cams *g* and g^{111}, arranged in combination with the cams j^1, j^1, &c., or their equivalents, in such a manner that the produce the within-described motion of the picture frames, at alternate intervals, substantially as and for the purpose specified."

No. 24,116. ARTHUR GRAY, of Naples, Maine, for an "Improved washing machine."

"I claim the improved washing machine, as made with a set of fluted rollers, and a fluted presser or bucking board, arranged, constructed, and applied to the reservoir, substantially as described, in order to enable the clothes to be both rolled and beaten, as specified, during the operation of washing the same."

No. 24,117. BENJN. L. GRIFFITH, of Hazeltownship, Pa., for an "Improvement in steam boilers."

"I claim the combination of the single smoke stack N, single chamber F, and double series of flues M, M, with the hollow hinged doors U, U, and diaphragms K, K, arranged and constructed substantially as and for the purpose set forth."

No. 24,118. A. HADLEY, of Lynn, Mass., for an "Improved machine for filing saws."

"I claim, first, determining the bevel of the teeth of a straight saw by means of pivoting the frame *g* (which supports the rail *e* and saw plate *a*) at *h*, and hinging rods *f*, f^1, to said frame *g*, as seen at g^1, g^1, and confining these rods in their relative position by set screws h^1, h^1, constructed and arranged substantially as above described. Second, determining the bevel of the teeth of a circular saw, by arranging the shaft z^{11} of the saw between two points *l* and *m*, one of the points *m* being adjustable by means of a grooved piece *p*, block *n*, and set screw O, the whole being constructed and combined substantially as above described. Third, determining the bevel of the straight and circular saws by combining the frame v^1, with grooves x^{11}, forming arcs of a circle, in combination with clamp screws s^{11}, and slotted plates z^{111}, substantially as above described. Fourth, holding the file by clamps r^{11}, r^{11}, set screws o^{11}, o^{11}, in combination with sha t n^{11}, set serew p^{11}, and bracket m^{11}, constructed and operating substantially in the manner and for the purpose set forth. Fifth, the combination of the movable table O^1 with the mechanism for supporting and moving the saws, constructed and arranged thereon, as shown and described, whereby the same machine can be quickly adapted for filing, either straight or circular saws, as set forth Sixth, the combination of the mechanism for supporting and moving the saws with the mechanism for supporting and operating the file, constructed, arranged, and combined as above described, and for the purposes set forth."

No. 24,119. NAPOLEON J. HAINES, of New York, N.Y., for an "Improvement in piano-forte actions."

"I claim the cross-shaped or four-armed fly F, applied in combination with the jack, the key and the hammer butt, to operate substantially as herein set forth."

No. 24,120. LUTHER T. HAZEN, of Coventry, N. Y., for an "Improvement in hubs for carriage wheels."

"What I claim is, enclosing wood hubs for carriage wheels or other vehicle, with metal cases which form the pipe box and bands, in the manner described, and for the purposes set forth."

No. 24,121. WM. HENNEY, of Wapello, Ill., for an "Improvement in machine for raising R. R. track."

"I claim the balance H, arranged with the arms I, and with the extensions J to operate in combination with the piston E, the serrated bar L, the pawl M, and with the eccentric disk C, substantially in the manner and for the purpose herein described."

No. 24,122. JOHN F. HOFFMEISTER, of Alton, Ill., for an "Improvement in ovens."

"I claim the arrangement of the flues F, F^1, which terminate in the chamber H, in combination with the additional flue J, to operate in combination with the rotary platform B, substantially as and for the purpose specified."

No. 24,123. C. R. HURLBUT, of Yorkshire, N. Y., for an "Improved clothes' dryer."

"I claim the within-described article of manufacture, constructed as described, to wit: the arrangement of standards (C, C), side rails (E, E) and (G, G), cross rails F, F, D, and I, I, and sash B, B, provided on their under side with buttons (*k*, *k*), the whole being jointed, and the several parts acting conjointly, substantially in the manner and for the purpose specified."

No. 24,124. CHAS. JONES, of Brooklyn, N. Y., for an "Improvement in coolers for beer."

"I claim the shell D, arranged in the cooler, so as to form the two compartments *a* and *b*, to operate in combination with the coil E, as and for the purpose herein described."

No. 24,125. ALFRED FAUVIN JALOUREAU, of Paris, France, for an "Improvement in manufacture of waterproof cement pipes."—Patented in France, 30th December, 1857.

"I claim the manufacture of air and water tight tubes or pipes by the process set forth."

No. 24,126. G. P. JORDAN, of Burlington, Iowa, for an "Improvement in separators for smut machines."

"I claim, 1st, the combination and arrangement of the scourer I, with the spout D, chamber C, and box B, provided with the blast chambers *b*, *b*, spout H, fan F, and screens *u*, *v*, substantially as and for the purpose set forth. 2nd, the employment or use of the valves c^1, placed in the partition plates *a*, *a*, when used in combination with the fan F, chamber C, spout D, and scourer I, and arranged relatively therewith, as and for the purpose set forth."

No. 24,127. Wm. Kelly, of Hastings, Mich., for an "Improved churn."

"I claim the combination of the dashers E, E, with the slide partition D, and connecting rods F, F, as described, the parts being so connected to the frame that the oscillations of the churn shall operate the dashers E, E, and force the cream against and through the slide partition, substantially as set forth; not intending to claim the operation of the dasher, or dashers, by the oscillations of the churn, but only the combination and arrangement of the vibrating dashers with the movable partition and concomitant parts, as described for the purposes set forth."

No. 24,128. Jesse Little, of Chambersburgh, Pa., for "Improvement in harvesting machines."

"I claim the arrangement of the sliding brace A, in combination with the tongue *p*, and bar B, constructed and operating in the manner described for the purpose specified. 2, the combination and arrangement of the caster plate *c*, *c*, jaws I, I, and segments G, G, in the manner and for the purpose herein described."

No. 24,129. Murdick Lytle, of Alleghany, Pa., for an "Improved propelling and steering apparatus."

"I claim, 1st, the shaft *b*, with a supporting arm or arms *g*, and bearing recess *v*, in combination with the propeller or paddle wheel shaft K, the whole being arranged in the manner and for the purposes set forth. 2nd, the tubular shaft *c*, with gear wheels at the upper and lower ends, in combination with the shaft *b*, and propeller shaft K, the whole being constructed and arranged in the manner and for the purposes set forth."

No. 24,130. Levi H. Markley, of Line Lexington, Pa., for an "Improved propeller."

"What I claim is, the arrangement and combination of the peculiarly acting paddle blades, or fliers, F, pivoted frame E, rods G, hooks J, sliding block H, and reversing and bracing bar L, as and for the purpose herein shown and described."

No. 24,131. Geo. W. Matthews, of York, Pa., for an "Improved method of forming plow handles."

"I claim the arrangement and combination of the carriage C, provided with the patterns or curved surfaces *f*, the adjustable rotating cutter head I, belt H, adjustable shaft D, provided with pinion *c*, and the rack *b*, attached to carriage C, substantially as and for the purpose set forth."

No. 24,132. W. S. Mayo, of New York, N. Y., for an "Improved metallic pipe."

"I claim the application of longitudinal strips B, to the surface of a metallic pipe, in combination with the coiled wire covering C, whereby I am enabled to insure great strength with a less thickness of metal, substantially as herein above specified."

No. 24,133. Wm. P. Maxson, of Albion, Wis., for an "Improvement in bag fastener."

"I claim the employment of the oblong grooved-faced plate A, or its equivalent, having two segments of its middle portion punched out, so as to admit the string and fasten it to the bag, in combination with the string B, and ring E, when constructed to operate upon the principle of the wedge, substantially as and for the purpose set forth."

No. 24,134. Thos. McBean, of Fowlerville, N.Y., for an "Improved egg beater.

"I claim the double spiral dasher A, in combination with a square box, when the same are arranged substantially as above specified."

No. 24,135. John McKown, of Geardstown, Va., for an "Improvement in seed planters."

"I claim the arrangement for united operation of the horizontally moving hand lever K, vertical shaft J, horizontal elbow lever I, horizontal slides H, H, divided hopper G, seed tube F, and vacuum plate L, substantially as and for the purposes set forth."

No. 24,136. Thos. E. McNeill, of Philadelphia, Pa., for an "Improvement in seats and couches for sleeping cars."

"I claim two adjacent seats, each seat having detachable cushioned boards G and E, and each having a permanent end frame D, and a rear frame F, with upper and lower ledges *i* and *h*, in combination with the swing bracket H, and rib I, or their equivalents, the whole being arranged substantially as herein set forth, so that the cushioned boards G of the two adjacent seats may form one couch, and the boards E of the same seats another couch, and so that when the said boards are arranged as couches there may a space between them and the permanent end frames D, for the purpose specified. Second, constructing and arranging the end frames D of four seats, substantially in the manner herein set forth, so that they may serve as supports for the cushioned platforms which form the two intermediate berths."

No. 24,137. John Miller, of Bucyrus, Ohio, for an "Improvement in attaching thills to axles."

"I claim the adjusting and securing the hook *s* on the pin *i* by means of the circular face *b*, *c*, on the jaws D, D, and the shoulders *r*, *r*, on the iron E, substantially as and for the purpose set forth."

No. 24,138. John R. Moffitt, of Piqua, Ohio, for an "Improvement in threshing machines."

"I claim the described arrangement of fixed bearings *t*, set screws *e* (in the line of adjustment), and hinged concave heads *c*, *d*, the whole operating together to set and rigidly retain the toothed portion of the concave at any desired proximity to the threshing cylinder, while at the side at which the unthreshed grain enters its distance is substantially unchanged."

No. 24,139. Timothy Newhall, of Lynn, Mass., for an "Improved machine for dressing kid-skins."

"I claim the rotary brush F, in connection with the reciprocating bed or carriage C, connected with its guide rods B, B, the springs D, D, the parts being arranged to operate substantially as and for the purpose set forth."

No. 24,140. T. A. Noble and Erastus Coy, of Akron, Ohio, and James B. Angell, of Alleghany, Pa, for an "Improvement in smut machines."

"We claim, 1st, the adjustable hoop C, in connection with the increase chamber *f*, to regulate the blast passing up through the circular opening N, also the adjustable ring D, to regulate the blast coming up through the circular opening E, the operation in both cases being to increase or diminish the blast, as may be required, substantially as set forth. 2. The chamber G, in combination with arm F and spout L, when said chamber is placed above the revolving chamber H, to catch the screenings, substantially as set forth. 3d. The revolving chamber H, provided with sides *h* and rim h^1 for distributing the wheat evenly as it falls over the edge of the rim h^1, so as to be more effectually operated upon by the blast passing up the opening E, and also the flange M upon cylinder L, for the similar distribution of the wheat to the second blast rising through opening N, as set forth. 4th, making the conical scourer O adjustable perpendicularly both independently of the shaft A and disc L, and in connection with said shaft and disc, substantially as set forth."

No. 24,141. John Smith Shattuck, of Malden, Mass., for an "Improvement in machines for cutting soles."

"What I claim is, the alternating or vibrating segment, carrying the two cutters, having the toe and heel in opposite directions. I claim the yielding table which supports the leather as it is fed forward, and the yielding gauge by which the leather is brought to the right position to be operated upon by the cutters. I also claim the projecting knife edge at the heel and toe of the cutter, by which the scraps are detached from the strip of leather."

No. 24,142. L. K. Selden, of Haddam, Conn., for an "Improved folding cradle."

"I claim, 1st, the rockers A of a cradle, arranged with slots *a*, or their equivalents, and operating in combination with the bottom braces B, the upright cross bars C, the longitudinal bars D, and the top bars E, substantially in the manner and for the purpose herein specified. 2nd, the arrangement of the slides *b*, in combination with the bottom braces B, and with the upright cross bars C, to operate substantially as and for the purpose described."

No. 24,143. Elnathan Sampson, of St. Johnsbury, Vt., for an "Improvement in platform scales."

"I claim attaching the rails A, A of the platform, direct to sleepers B, which are connected at each end by links *m*, to yokes H, fitted on levers E, the lower ends of said levers at each side of the platform being connected together and to the shaft G, of the scale beam, by rods *g*, substantially as and

for the purpose set forth. I also claim the employment or use of the adjustable rods F, attached to the levers E, to permit of the compensation of the same, for the purpose specified."

No. 24,144. Geo. Roushe, of Lima, Ohio, for an "Improvement in straw cutters."

"I claim the relative arrangement for united operation in a straw cutter of the reciprocating cutting knife C, when arranged in a circularly moving frame, reciprocating feeding rake E, and rising and falling pivoted press board G^1, said parts being connected together and operated in the manner set forth."

No. 24,145. Adolph Roesler, of Warsaw, Ill, for an "Improvement in buckles."

"I claim the tug plates A, A, the trace plate D, having one or more knobs *o*, the fork-shaped hame hook *g*, and screw rod *h*, all arranged substantially as described, and for the purpose specified."

No. 24,146. Richd. Rickkon, of Rochester, N. Y., for an "Improvement in car couplings."

"I claim constructing self-adjusting car couplings with a series of grooves *g*, as above specified, so as to admit of the coupling (with self-couplers) of cars of unequal hights, for the purpose set forth."

No. 24,147. Robt Ramsay, of Philadelphia, Pa., for an "Improvement in burners for vapour lamps."

"I claim the combination of the wick tube B, the gas chamber C, C, the tube D, and jet E, arranged and operating substantially as above described."

No. 24,148. Richd. B. Pullan, of Cincinnati, O., for an "Improvement in stoves."

"I claim a rotating vessel, provided with two grates, and a central row of grate bars arranged within stoves, in such manner as to form two fire chambers, one above the other, and which may be used alternately, substantially in the manner and for the purposes set forth."

No. 24,149. Luther E. Porter, of Lake Mills, Wis., for an "Improvement in machine for stripping and cutting sugar cane for grinding."

"I claim the divided clasp (H, H, *i*, *i*, *k*, *k*), arranged substantially as herein described. Second, in combination with the above, I claim the spring cutters (*m*, *m*), all constructed, arranged and operating substantially as herein described, for the purposes set forth."

No. 24,150. Jonah Platt and Myron D. Brooks, of Akron, Ohio, for an "Improvement in metallic shields for boots and shoes."

"We claim the construction of boot and shoe shields having an opening in front to prevent water or sand from being entrapped between the shield and the leather, substantially as described."

No. 24,151. Chas. Perley, of New York, N. Y., for an "Improved seats for churches, schools, &c."

"I claim the combination of the swinging bracket *q* with the turning seat *d*, connected and acting in the manner and for the purposes specified."

No. 24,152. Richd. Nuttall and John Kirkpatrick, of Alleghany, Pa., for an "Improved chuck for screw cutting."

"We claim, first, the ring (*d*), having a portion of the inside cut away or recessed for the purpose of making room for the outer end of the cutting dies, said ring being furnished with cams (*e*) on the inside and with a spring catch (*h*), lever (*g*), cam (*k*), and locking stud (*l*) on the outside, as herein described, and for the purpose set forth. Second, the cam chamber (*w*) in the die box (*b*), when used in connection with the cams (*e*) and ring (*d*), as herein described, and for the purpose set forth. Third, the regulating stud, when made in three parts, as herein represented, and used in connection with the die box (*b*), ring (*d*), and spring catch (*h*), as herein described, and for the purpose set forth. Fourth, the combination and arrangement of the die box (*b*), cutting dies (*f*), and cap (*c*), with the ring (*d*), the whole being combined, arranged, constructed, and operated as herein described, and for the purpose set forth. Fifth, the eccentric lever (*j*) on the face plate (*a*), when used in combination with the lever (*g*), cam (*k*), locking stud (*l*), and spring catch (*h*), as herein described, and for the purpose set forth."

No. 24,153. Richd. Nuttall and John Kirkpatrick, of Alleghany, Pa., for an "Improved machine for cutting screws."

"We claim, first, the combination and arrangement of the levers (*m*) and (*n*), rods (*k*) and (*l*), stops (*o*) and (*p*), and springs (2), with the holding or sliding head (*d*) and eccentric lever (*r*), the whole being combined, arranged, and constructed in the manner described, and for the purpose set forth. Second, the use of the sliding or holding head (*d*) and eccentric lever (*r*), when used for the purpose of opening and closing cutting dies in chucks for screw cutting."

No. 24,154. F. H. Smith, of Plainville, Conn., for an "Improvement in spring balance for window sash."

"What I claim is, the manner of securing the pulleys in the head jamb of the window frame, as described; the manner of winding up and adjusting the two pulleys through one orifice, for the purpose described."

No. 24,155. Jasper Snell and John R. Deihm, of Pottsville, Pa., for an "Improved coal screen."

"We claim the arrangement of the plates or blades C in parallel planes with spaces between their edges, so as to slope lengthwise of the screen and crosswise from the centre of the screen, substantially in the manner and for the purpose herein-before specified and set forth."

No. 24,156. Edwd. Spaulding, of Westborough, Mass., for an "Improvement in friction pulleys."

"I claim the combination of the tubular rest D^1, with the driving pulley A, the hanger E, or its equivalent, and the shaft C of the driving pulley B, the pulleys being arranged and made to operate with respect to one another, essentially as specified."

No. 24,157. A. Washington Stewart, of Cambridge, Md., for an "Improvement in sails for fore-and-aft rigged vessels."

"What I claim as my improvement in foresails, is the clue sale *b*, of the form specified, united to the after leach of the fore sail, and managed by sheets *e*, e^1, as herein set forth."

No. 24,158. Stephen L. Stockstill, of Medway, Ohio, for an "Improvement in seed planters."

"I claim the described arrangement of the open notches *l*, *l*, *l*, pivot *m*, drag bar K, and pin *p*, the whole being constructed in the manner and for the purpose set forth."

No. 24,159. James A. Stoddard, of Milford, Mass., for an "Improvement in mechanism for varying speed."

"What I claim is, graduating or varying speed by means of pulleys, or their equivalents, operated in connection with surface wheels, or their equivalents, in such a manner as to receive and transmit the motion, at variable distances from their centers, when constructed and operating substantially in the manner above set forth and described."

No. 24,160. Henry Stowell and Lorenzo Spencer, of Placerville, Cal., for an "Improvement in portable wagon jacks."

"We claim the peculiar arrangement, combination, and adaptation, for the purpose of raising the axles of wagons and other heavy bodies, to which the foregoing invention may be adapted."

No. 24,161. Francis M. Strong and Thos. Ross, of Brandon, Vt., for an "Improvement in weighing scales."

"We claim the employment of an auxilliary frame, substantially such as described, in combination with and interposed between the platform and levers, substantially as described and for the purpose specified. We also claim constructing such intermediate frame in two parts, connected by movable joints at the angles, substantially as and for the purpose specified. We also claim the manner of constructing and inserting the bearing blocks that rest on the knife edges, substantially as and for the purpose specified. And we also claim bringing the ends of the arms immediately one above the other in combination with the mode of connecting the two with the beam by single and double connecting rods, substantially as described and for the purpose set forth."

No. 24,162. Francis M. Strong and Thos. Ross, of Brandon, Vt., for an "Improvement in platform scales."

"We claim arranging the series of rocking levers which sustain the platform, with their shafts all parallel, and with the arms of all of them in the same line, except those constituting the inner section which are inclined, substantially as described, in combination with the transmitting lever above which connects with the scale beam to the short arms of which they are all suspended at equal distances from the axis of vibration, substantially as and for the purpose described. We also claim the method of connecting the several sections of the shaft of the transmitting lever, by means of projections and links, substantially as described, for the purpose of enabling it to yield freely to inequalities or variations in the supports, that it may vibrate freely and without binding, and thereby transmit the weight accurately to the scale beam, as described. We also claim suspending the bearing blocks by two links, in manner substantially as described, so that any swing motion of the levers will not cause the blocks to vibrate on the knife-edges, by which means we are enabled the better to preserve fine knife-edges, so essential to accurate weighing. We also claim constructing the bearing pieces with a convex face and projecting tenon, substantially as described, whereby they are rendered self adjusting, that the knife edges may bear without binding, as set forth. And we also claim, in combination with the nose iron, adjustable by a screw in the end of the transmitting lever, the employment of a spring bearing against the end of the adjusting screws, substantially as described, and for the purpose set forth."

No. 24,163. Isaac P. Tice, of Baltimore, Md., for an "Improved machine for cutting irregular forms."

"I claim the employment or use of the vibratory bed B, with fence or gauge E, and feed or pressure rollers F, G, attached in connection with the rotary cutter head H, fitted in stationary bearings on the platform or table, the whole being arranged to operate substantially as and for the purpose set forth."

No. 24,164. Robt. R. Taylor, of Reading, Pa., for an "Improvement in sugar cane harvesters."

"I claim the two sets of rotating cutters, one set being situated above and in advance of the other set, in combination with the reel *n*, and shield L, the whole being arranged substantially as and for the purpose herein set forth."

No. 24,165. John Thompson, of Marblehead, Mass., for an "Improved machine for cutting soles."

"What I claim, is, the arrangement and application of entire sole cutters K, L (viz., such as are capable of cutting out an entire sole, finished on its sides, toe, and heel), on opposite sides of a rotary shaft G, so that after each semi-revolution of such shaft, and during each descent of it, an entire sole; with heel and toe complete, may be cut from the piece of leather, by one of such sole cutters acting thereon, and while the piece of leather is supported on the bed or block under such shaft. I claim the application of the catch cams to the pinion, and a spring slider applied to the shaft G, and so as to operate therewith, substantially as specified. I claim in connection with the entire sole cutters K, L, applied to opposite sides of the shaft G, and operated as described, a gauge V, and mechanism to operate it in such manner as first to move it up to the path of the cutter, and carry it away therefrom sufficiently to enable the sole that may have been cut, to be discharged from the supporting bed, as described."

No. 24,166. Thos. H. Tatlow, jr., of Palmyra, Mo., for an "Improved rocking chair."

"I claim a rocking chair, having its arms extending down to the rockers, and its back arranged and operated as herein specified."

No. 24,167. James L. Townsend, of Newburyport. Mass., for an "Improvement in reefing fore-and-aft sails."

"I claim the application of the gaff C, to the mast A, so as to be capable of being dropped downward on either side of the sail, into or about into parallelism with the mast, as specified, in combination with the application of one or two head reefing lines L, L^1, to the gaff and the sail, so as to enable the slack of the leach and upper part of the sail to be taken up, and also the lower end of the gaff to be secured, in order to effect the reefing of the sail as specified. I also claim, in combination with the said means of reefing the head and producing the lap of the sail one or more buntlines, or lap securing lines, M, M^1, N, N^1, applied to the leach and the body of the sail, substantially in manner, and to operate as described."

No. 24,168. Chapman Warner, of New York, N.Y., for an "Improved moulding machine."

"I claim, 1st, the method of packing the sand by dropping it from any given height, substantially in the manner herein described. 2nd, the mode of obtaining the same result by means of revolving bladed shafts, substantially as herein described. 3rd, the double hinged flask, constructed and secured by plates and pins, substantially as herein described. 4th, the table, constructed substantially as herein described, under and independent of the moulding board, capable only of a vertical motion communicated to it by the arrangement herein described, or any one equivalent thereto, and working in connection with the moulding board, through which latter the patterns which are fastened on the table protrude. 5th, the mode substantially as herein described, of supporting the moulding board from beneath and through the table. 6th, I claim the combination of apparatus for packing the sand, with the mode of hinging and securing the flask by plates and pins, and with the vertically working table apparatus, for withdrawing the patterns from the sand through the moulding board, supported as above described, and the whole operating substantially as herein described."

No. 24,169. Joseph W. Wattles, of Canton' Mass., for an "Improvement in ring traveler spinning frame."

"I claim the improved arrangement of the ring flanches by which the traveler is supported, and on which it slides, the same consisting in arranging them with reference to the ring or its axis, substantially as shown in Figure 3 of the accompanying drawings."

No. 24,170. Jesse Whitehead, of Manchester, Va., for an "Improvement in harvesting machines."

"I claim as new, 1st, the supplemental discharging rake O, arranged with its actuating mechanism substantially as shown and described, so as to operate automatically and conjointly with the platform rake K, for the purpose specified. 2nd, attaching or suspending the rake head J to the shaft H by means of the pulley *d*, rod I, oblique bars *f*, *f*, and pulley *h*, substantially as shown and described, whereby the head J is allowed to vibrate, and is properly guided or retained on the shaft H."

No. 24,171. W. I. Wilson, of Franklin, Ind., for an "Improvement in cultivators."

"I claim the arrangement of axles A and E, wheels B levers C, C, shanks D, D, plows *a*, *a*, cross-piece I, guides F, F and arms *d*, *d*, for operating conjointly in the manner and for the purpose herein set forth."

No. 24,172. Solon Wood, of White Pine, Pa., for an "Improved saw filer."

"I claim the arrangement of the cutters C on an arbor B, the bearings of which are so arranged that the cutters are subjected to the action of adjustable spiral springs, or their equivalent, substantially in the manner and for the purpose herein specified. And I also claim the additional arm *e*, which is hinged to the bar *a*, in combination with the sliding pieces *g*, for the purpose of allowing the cutters to follow the action of the springs *h* in two directions, substantially as herein described."

No. 24,173. Isaac F. Woodward, of Philadelphia, Pa., for an "Improved gong or bell for signals."

"I claim the escapement bar B, constructed substantially as described, in combination with the end J, and pin K, of the hammer or striking arm C, the whole arranged substantially as described, and for the purpose set forth."

No. 24,174. Henry Aregood, of Mansfield Township, N. J., and Stephen Ustick, of Philadelphia, Pa., assignors to John L. MacKnight, of Bordentown, N. J., for an "Improvement in machines for making clay pipes."

"What we claim is, first, the annular ring q^1 upon the core pin H (which is also provided with a foot), in combination with a flange upon the inside of the outer front end of the mould G, to retain the core pin in place while forming the bell end of the pipe, operated in the manner and for the purposes specified. Second, the cam wheel L in combination with the piston J, trough B, and its connections, mould G, and core pin H, for making the bell end and straight part of the pipe at one operation. Third, the combination of the rock shafts O and O^1, with the two halves of the mould C, the former being operated by the cam wheel M and shaft N, for the purposes above described. Fourth, the slide D, rod

R, and cam strip Q, arranged as described, for the purpose above set forth. Fifth, the arrangement and combination of the cam U, rock shaft T, and levers W and V, for operating the knife I, in the manner and for the purpose specified."

No. 24,175. Henry I. Behrens, of New York, N. Y., assignor to Chas. S. Pomeroy, of same place, for an "Improved wrench."

"What I claim is, providing the socket C of the screw with a pivot or hinge, substantially in the manner and for the purpose specified."

No. 24,176. Wm. G. Budlong, of Hartford, Conn., assignor to Hamilton W. Conklin and James W. Corning, of same place, for an "Improved carpet sweeper."

"I claim, in combination with the gear wheel D and pinion *f*, at either end of the case, the lever C and screw *h*, by which the height of the brush is adjusted, and the pinion is engaged with the driving gear, arranged substantially as and for the purpose specified."

No. 24,177. John G. Clark, of Augusta, Geo., assignor to himself and Saml. W. Hatch, of same place, for a "Burglar's alarm."

"I claim, 1st, the employment of one or more cap nipples C on a suspended gravitating breech piece or plate to receive a percussion cap or caps, when said breech piece forms part of a burglar alarm, substantially as and for the purpose set forth. 2nd, providing said suspended breech piece or plate with a vertical stem, and arranging to slide over said stem a tubular weight, so that when the alarm detaches from the door and strikes the floor, the percussive force of the breech piece and weight will explode the cap or caps, and produce the desired alarm, substantially as set forth. 3rd, arranging the spring on the stem of the breech piece between the breech piece and weight, so that the same shall be held far enough apart, to allow the necessary movement of the same toward each other, to explode the cap or caps, when the alarm strikes the floor, substantially as set forth. 4th, providing serrations on the underside of the suspending bracket, so that said bracket shall move with the door until it clears the framing, substantially as and for the purposes set forth."

No. 24,178. H. W. Horton, of Wheaton, Ill., assignor to Oliver H. Horton, of Chicago, Ill., and Roswell E. Adams, of Wheaton aforesaid, for an "Improved apparatus for cooking by steam."

"I claim the within-described arrangement of a steam boiler C, in combination with a steam chamber E, which communicates with the boiler by means of a slide *e*, or its equivalent, and one end of which contains the oven G, the whole being arranged substantially as and for the purpose specified."

No. 24,179. N. N. McLeod, of St. Louis, Mo., assignor to Carroll E. Gray, of same place, for an "Improvement in hose coupling."

"What I claim is, making the lip *c* around the conical end D, so as to leave a cavity to receive the end of the pipe B, and the screw nut A, when the said lip *c* is a part and portion of the same piece that the cone D is, as shown and described."

No. 24,180. John W. Smith, of Washington, D. C., assignor to himself and Walter W. Berry, of Baltimore, Md., for an "Improved waterproof sole."

"What I claim as a new article of manufacture is, the water-proof inside sole, when constructed of the compound above described, placed between two sheets of paper, in the manner herein set forth."

No. 24,181. John W. Wheeler, of Cleveland, Ohio, assignor to Alden B. Stockwell, of same place, for an "Improved splint broom."

"What I claim is, the formation of brooms, composed of separate wrought splints, when constructed in the manner herein described and set forth, as a new article of manufacture."

No. 24,182. Martin Wesson, of Springfield, Mass., assignor to himself and D. B. Wesson, of same place, for an "Improved machine for channeling and edging soles of boots and shoes."

"I claim, 1st, the combination of the feed rolls E, F, adjustable knives *b*, b^1, and the guide R, when constructed and operating substantially in the manner and for the purpose above set forth. 2nd, the combination of lever L, sliding pieces *h*, h^1, and knives *b*, b^1, when arranged and operating as described, and forming a knife holding arrangement, for the purpose specified."

No. 24,183. Stephen G. Tyler, of Quincy, Ill., assignor to himself, G. I. Saage, and I. W. Barnum, of same place, for an "Improvement in circular clamps for sewing machines."

"What I claim is, the combination of a central disk *e*, with the convex clamping disk *d*, and the flat sustaining disk *f*, substantially in the manner described, for the purpose of dividing the crown and quarters of circular sewing, and presenting the edge of the fabric to the needle, in the manner set forth."

Re-issues.

Horace H. Day, of New York, N. Y., assignee of Henry George Tyer, and John Helm, of New Brunswick, N. J., for an "Improvement in manufacture of india rubber goods by means of zinc compounds."—Patented 30th January, 1849.—Re-issued 7th August, 1849.—Again re-issued, 24th May, 1859.

"I claim india rubber fabrics made by the combination of caoutchouc in its several varieties with the sulphuret of zinc or the bi-sulphuret of zinc, or the hyposulphite of zinc or the sulphite of zinc, and also with zinc compounds in their several forms as herein set forth, and sulphur, and in combination with these in either case, the submitting said compound to the action of steam at a high temperature, the whole being combined and manufactured substantially as above described."

William T. Barnes, of Buffalo, N. Y., for an "Improvement in apparatus for raising water."—Patented 20th March, 1849.—Re-issued 24th May, 1859.

"I claim,—First, the combination of casing, whose sides slope outward from the induction opening with a revolving piston, the edge of whose blades conform to and run near to the sloping sides of the casing or the spiral rib, substantially as described for the purpose set forth. Second, in combination with a casing whose sides slope outward from the eduction openings, I claim a rotating piston with fixed blades inclined upon the face to the axis of the piston rod for the purpose set forth. Third, dividing the stream of liquid as it enters the casing contain the rotating piston, by causing it to pass through two or more induction openings, arranged substantially as described, so that the blades of the piston pass over these openings."

Thomas Robjohn, of New York, N. Y., for an "Improvement in ink-stands."—Patented 25th August, 1857.—Re-issued 24th May, 1859.

"What I claim as new, and desire to secure by Letters Patent, is,—1st, the arrangement for flexing the elastic diaphragm by attaching a mechanism in connection with the cover for the ink cup, that the opening and closing thereof shall effect the raising or discharge of the ink or other fluid into or from said cup as specified. 2nd, the cover arranged and operating as above set forth, in combination with the elastic or flexible diaphragm and a non-corrosive fountain or ink cup, when operating as and for the purposes herein above specified. 3rd, the combination and arrangement of cam lever *d*, and plunger *i*, or the equivalents thereof for effecting the raising or discharge of the ink by raising or closing the cover of the non-corrosive fountain cup substantially as specified. 4th, arranging the cam centres in such relation to each other that by raising the cover, the requisite depression of the diaphragm will be produced to obtain the required result as specified."

Design.

Richard Barry, of Boston, Mass., for a "Design for sepulchral monuments."

"I claim the ornamental design for the shaft or faces of the obelisk as represented and described."

Freedon Monroe, of Romeo, Mich., for an "Improvement in bow whiffle trees."—Patented 24th August, 1858.—Additional improvement dated 24th May, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, is, the bearing bar, the chain and braces attached thereto, and the padded swivel joint to be used in combination with my improvement in harness, disclaiming the original invention heretofore patented.

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No. 568. TUESDAY, JUNE 14, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

287. ROBERT GORMULLY, of 13, Grafton Street, Fitzroy Square, parish of St. Pancras, Middlesex, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improvement of piano-fortes with upright frames."

As set forth in his petition, recorded in the said office on the 1st day of February, 1859.

296. And EDWARD ELLIS ALLEN, of Brompton Row, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in stereoscopic apparatuses."

305. And GEORGE LEACH, of Leeds, in the county of York, Yarn Spinner and Cloth Manufacturer, has given the like notice in respect of the invention of "Improvements in leashing yarn or thread in the hank, and in machinery for winding off the same."

As set forth in their respective petitions, both recorded in the said office on the 2nd day of February, 1859.

311. And JOHN PETRIE, junior, of Rochdale, in the county of Lancaster, Machinist, and THOMAS WRIGLEY, of Heap Bridge, in the said county, Paper Manufacturer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for washing rags and other materials for the manufacture of paper."

As set forth in their petition, recorded in the said office on the 3rd day of February, 1859.

316. And WARREN THOMPSON, of 2, Rue Sainte Appoline, Paris, France, and of 45, Essex Street, Strand, London, has given the like notice in respect of the invention of "An improved printing telegraph."

321. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "Improvements in shirts."—A communication from L. Levy Neyman, residing in Paris.

323. And FREDERICK HERBERT MABERLY, of Stowmarket, in the county of Suffolk, Master of Arts, has given the like notice in respect of the invention of "Improvements in obtaining spring power, and in its application to various purposes."

327. And WILLIAM ROBERT JUSTICE PACKER, of No. 4, Leinster Street, in the parish of St. Mark's, and county of the city of Dublin, Dyer and Scourer, has given the like notice in respect of the invention of "Improvements in the plough or plough share, for the purpose of more effectually pulverizing, breaking up, or cutting into small particles, the earth or sod separated from the ground by the plough share."

As set forth in their respective petitions, all recorded in the said office on the 4th day of February 1859.

331. And FREDERICK HERBERT MABERLY, of Stowmarket, in the county of Suffolk, Master of Arts, has given the like notice in respect of the invention of "Improvements in apparatus for corking, for drawing corks in taps, in the necks of bottles, in the bung holes of barrels, and in similar articles."

As set forth in his petition, recorded in the said office on the 5th day of February, 1859.

338. And GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, has given the like notice in respect of the invention of "Improvements in the treatment of charcoal after its manufacture or revivification."

341. And WILLIAM HENRY CRISPIN, of Marsh Gate Lane, Stratford, in the county of Essex, Copper Smelter, has given the like notice in respect

of the invention of "An improved atmospheric and hydraulic engine for sailing and steam vessels."

343. And Joseph Lee, of 18, Monson Street, Lincoln, has given the like notice in respect of the invention of "Improvements in the manufacture of cranks for steam engines and other purposes."

As set forth in their respective petitions, all recorded in the said office on the 7th day of February, 1859.

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356. And John Baldry Redman, of New Palace Yard, in the city of Westminster, Civil Engineer, has given the like notice in respect of the invention of "An improvement in the construction of carriage ways."

As set forth in his petition, recorded in the said office on the 8th day of February, 1859.

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361. And Edward Wilkins, of No. 7, Addington Place, Camberwell Road, in the county of Surrey, Gentleman, has given the like notice in respect of the invention of "Improvements in flower vases."

370. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved mode of bleaching and purifying or refining sugar and vegetable juices or extracts."—A communication from abroad by Emile Rousseau, of Paris, in the empire of France.

371. And Edward Herring, of the Heath, Weybridge, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the mashing and fermenting of grain for the production of alcohol."

As set forth in their respective petitions, all recorded in the said office on the 9th day of February, 1859.

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375. And John George Taylor, of Paris, and of Glasgow, in the county of Lanark, Merchant, has given the like notice in respect of the invention of "Improvements in writing materials and the manufacture thereof."

376. And William Adolphe Covert, of Long Island, New York, in the United States of America, has given the like notice in respect of the invention of "An improved self-acting railway switch."—A communication from Charles L. Spencer, residing at Rhode Island, U. S. A.

378. And George Louis Stocks, of Bridge Road, Poplar, in the county of Middlesex, Ship Chandler, has given the like notice in respect of the invention of "Improvements in steering apparatuses."

As set forth in their respective petitions, all recorded in the said office on the 10th day of February, 1859.

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388. And Robert Cogan, of Red Lion Square, in the county of Middlesex, Glass Dealer, has given the like notice in respect of the invention of "Improved instruments for crushing and mixing solid and liquid substances."

As set forth in his petition, recorded in the said office on the 11th day of February, 1859.

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393. And Gayland Hadwen, of Audenshaw, in the county of Lancaster, and John Wadsworth, of Droylsden, in the said county, have given the like notice in respect of the invention of "Improvements in jacquard apparatus applicable to power looms."

395. And Thomas Willis and George Chell, both of Longsight, near the city of Manchester, Machine Makers, have given the like notice in respect of the invention of "Improvements in machinery for spinning, twisting, doubling, and winding yarns and threads."

398. And Samuel Hazard Huntley, of Upper Baker Street, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in cooking apparatus."

399. And Thomas White, of Portsmouth, in the county of Southampton, Ship Builder, and George Jenkins, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in apparatus for raising and lowering ships along inclined slips."

407. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in sewing machines."—A communication from abroad by James Stebbings Moody, of the United States of America.

As set forth in their respective petitions, all recorded in the said office on the 12th day of February, 1859.

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408. And James Parkinson, of Manchester, in the county of Lancaster, Dentist, has given the like notice in respect of the invention of "Certain improvements in coffins."

As set forth in his petition, recorded in the said office on the 14th day of February, 1859.

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451. And Charles Garton, of the city and county of Bristol, Brewer, has given the like notice in respect of the invention of "An improved method of treating cane sugar in order to render it fitter to be employed in brewing, distilling, and wine and vinegar making."

As set forth in his petition, recorded in the said office on the 18th day of February, 1859.

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461. And William Clay, of Liverpool, in the county of Lancaster, Iron and Steel Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of deck and other beams, and of angular and other bars of various forms."

462. And William Basford, of Burslem, in the county of Stafford, Brick and Tile Manufacturer, has given the like notice in respect of the invention of "Improvements in the method of and means for drying bricks and tiles preparatory to their being burnt, and also in the construction of kilns or ovens for burning such bricks, tiles, pipes, pottery, or earthenware, and in the mode of charging or placing these said articles therein to be burnt or fired, and also in certain appliances for regulating the heat therein."

As set forth in their respective petitions, both recorded in the said office on the 19th day of February, 1859.

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529. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus for stopping horses."—A communi-

cation from Madame Achet, residing at Paris, in the empire of France.
As set forth in his petition, recorded in the said office on the 28th day of February, 1859.

547. And Peter Currie, General Brass-Founder, of Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in spindles for locks, latches, and other door fastenings."
As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

617. And Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery for rolling horse-shoe iron."—A communication from William Watkin Lewis, residing in the United States of America.
As set forth in his petition, recorded in the said office on the 9th day of March, 1859.

742. And George Neal, Gas Chandelier and Fitting Manufacturer, of Great Charles Street, Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in apparatus or fittings connected with the burning of gas for regulating and economising its consumption."

744. And John Henry Johnson, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for the manufacture of sheet tin."—A communication from abroad by Monsieur Masson, of Paris, in the empire of France.
As set forth in their respective petitions, both recorded in the said office on the 23rd day of March, 1859.

833. And Thomas Richardson, of Hartlepool, in the county of Durham, Engineer, and George William Jaffrey, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in the arrangement and construction of harbours of refuge, breakwaters, sea walls or barriers, and other like structures."
As set forth in their petition, recorded in the said office on the 2nd day of April, 1859.

848. And Andrew Shanks, Engineer, 6, Robert Street, Adelphi, Westminster, has given the like notice in respect of the invention of "Improvements in machinery for forging and stamping metals,"

851. And Leonard Brierley, of Birmingham, in the county of Warwick, Manufacturer, and Henry Geering, of Birmingham aforesaid, Manufacturer, have given the like notice in respect of the invention of "A new or improved method of ornamenting metallic bedsteads and other articles of metallic furniture."
As set forth in their respective petitions, both recorded in the said office on the 5th day of April, 1859.

1030. And James Higgin, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in treating madder and plants of the same family, and preparations therefrom."
As set forth in his petition, recorded in the said office on the 25th day of April, 1859.

1095. And William Bayliss, of the firm of W. M. Bayliss and Co., Flat and Chain Cable and Iron Hurdle and Fencing Manufacturers, of Monmore Green, Wolverhampton, in the county of Stafford, has given the like notice in respect of the invention of "Improvements in the manufacture of iron-hurdles and fencing."
As set forth in his petition, recorded in the said office on the 2nd day of May, 1859.

1200. And Robert Gourlay, of the firm of Alston and Gourlay, of Glasgow, in the county of Lanark, North Britain, Iron Founders, has given the like notice in respect of the invention of "Improvements in making moulds for casting."
As set forth in his petition, recorded in the said office on the 13th day of May, 1859.

1250. And James Palmer Budd, of Ystalyfera, near Swansea, has given the like notice in respect of the invention of "Improvements in the manufacture of tin and terne plates."
As set forth in his petition, recorded in the said office on the 20th day of May, 1859.

1263. And Walter Crum, of Thornliebank, in the county of Renfrew, Bleacher and Calico Printer, has given the like notice in respect of the invention of "Improvements in printing and dyeing textile fibres and fabrics,"

1275. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved construction of washing machine."—A communication from abroad by David Parker, of Shaker Village, New Hampshire, in the United States of America.
As set forth in their respective petitions, both recorded in the said office on the 23rd day of May, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

14*th June*, 1859.

2874. Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "An improved pendulum governor for regulating the supply of steam to the cylinders of marine engines."—A communication from Mr. Billotet, residing at Marseilles, in the empire of France.—Dated 15th December, 1858.

2884. Jasper Henry Selwyn, of Woodland Crag, Grasmere, in the county of Westmoreland, Captain in the Royal Navy, for an invention of "A novel apparatus for paying out or laying down submarine telegraph cables or wires, and for raising the same after they have been laid down."—Dated 16th December, 1858.

2885. John William Edge, of Manchester, in the county of Lancaster, Gun Maker, for an invention of "A certain improvement in balls, bullets, or other projectiles to be employed in fire arms or ordnance."—Dated 16th December, 1858.

2888. Joseph Jean Marçais, of Paris, France, Civil Engineer, for an invention of "Improvements in galvanic batteries."—Dated 16th December, 1858.

2890. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for an invention of "An improvement in plating and gilding forks, spoons, and other metal articles."—A communication from Messieurs de Sauvigny, residing at Paris.—Dated 16th December, 1858.

2893. William Beckett Johnson, Manager for Messrs. Ormerod and Son, of Manchester, in the county of Lancaster, Engineers, for an invention of "Improvements in machinery or apparatus for preparing for joining the rails of railways."—Dated 17th December, 1858.

2975. William Taylor, of Nursling, in the county of Southampton, Gentleman, and William Dakin Grimshaw, of the town and county of the town of Southampton, Engineer, for an invention of "Regulating the admission of natural atmospheric air and eduction of rarefied air or gasses from hothouses or any other place or premises, and for supporting a required temperature."—Dated 29th December, 1858.

3001. Matthew Digby Wyatt, of Guildford Street, Russell Square, in the county of Middlesex, Architect, for an invention of "Improvements in tiles and tessaræ and other wall coverings, and in the means of securing the same to walls and buildings."—Dated 31st December, 1858.

101. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement or improvements in the manufacture of cast steel."—Dated 12th January, 1859.

121. Thomas Sampson, of Calle Cartaños, No. 8, Barcelona, Spain, for an invention of "Improvements in apparatus for feeding steam boilers with water."—Dated 13th January, 1859.

133. William Betts, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, for an invention of "Improvements in the manufacture of capsules, and in the apparatus to be employed therein."—Dated 15th January, 1859.

141. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improvement in sewing machines."—A communication from Elias Howe, junior, of Brooklyn, in the United States of America.—Dated 17th January, 1859.

961. John Sidebottom, of Broadbottom, near Mottram, in the county of Chester, Cotton Spinner and Manufacturer, for an invention of "Improvements in the construction of tubes and partial tubes, and in machinery or apparatus for placing them on the spindles of machines used in spinning, doubling, winding, and warping, also improvements in machinery for making such tubes and partial tubes."—Dated 16th April, 1859.

997. Lucius Phelps Porter, of New York, for an invention of "Improvements in knitting machinery.—A communication from abroad by Joseph R. Kilbourn and Edward E. Kilbourn, of Norfolk, in the county of Litchfield, and state of Connecticut."—Dated 20th April, 1859.

1017. James Gillies, of Glasgow, in the county of Lanark, North Britain, Wood Turner, for an invention of "Improvements in branding or marking wood for casks, barrels, and other purposes."—Dated 23rd April, 1859.

1023. William Gibson, of St. Leonard's Road, in the county of Middlesex, Engineer, for an invention of "Improvements in steering apparatus."—Dated 23rd April, 1859.

1047. William Marshall, of Leith Walk, in the county of Mid-Lothian, North Britain, Engineer, for an invention of "Improvements in steam engines."—Dated 26th April, 1859.

1111. Lyman Reed Blake, of the State of Massachusetts, of the United States of America, for an invention of "A new and useful or improved machine for sewing a sole on a boot or shoe."—Dated 3rd May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 11th June, 1859, inclusive.*)

9th June.

1373. Thomas Skaife, at present residing at Vanbrugh House, Greenwich, in the county of Kent, for an invention of "Spring folding camera shutters for the more speedy and convenient mode of taking photographic pictures than has been hitherto adopted."—Dated 10th June, 1856.

1390. James Eives, of 17, Cornhill, London, for an invention of "Improved machinery for extracting oil from oleaginous seeds."—A communication.—Dated 12th June, 1856.

1425. Henry Holland, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in the manufacture of umbrellas and parasols."—Dated 17th June, 1856.

1427. Arthur George Baylis, of Redditch, in the county of Worcester, Manufacturer, for an invention of "An improvement or improvements in needles."—Dated 17th June, 1856.

10th June.

1388. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in breech-loading fire-arms."—A communication.—Dated 11th June, 1856.

1399. William Massey, of the city of Manchester, in the county of Lancaster, Manager, for an invention of "Improvements in looms for weaving."—Dated 13th June, 1856.

11th June.

1392. Philip Unwin and John Unwin, of the firm of Unwin & Rodgers, of 124, Rockingham Street, Sheffield, in the county of York, Cutlery Manufacturers, for an invention of "Improvements in the manufacture of pen and pocket knifes."——Dated 12th June, 1856.

1400. Constant Jouffroy Duméry, of Paris, in the empire of France, Civil Engineer, for an invention of "Improvements in machinery to be used for manufacturing shoes and boots."—Dated 13th June, 1856.

FOREIGN PATENTS.

PRUSSIA.*

List of Patents Granted and Cancelled between the 16th April and 31st May, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. Patents Granted.

1. Eduard Schröder, of Berlin, for "An apparatus for controlling drivers of public carriages."—5 years.—Dated 10th May, 1859.

2. J. H. F. Prillwitz, of Berlin, for an imported invention of "A machine for boring stone."—5 years.—Dated 10th May, 1859.

3. Prof. Fink, of Berlin, for "A regulator of horizontal water wheels."—5 years.—Dated 22nd May, 1859.

2. Patents Cancelled.

1. J. H. F. Prillwitz, of Berlin, for "A gas meter."—Dated 4th March, 1858; Cancelled 30th April, 1859.

2. J. H. F. Prillwitz, of Berlin, for an imported invention of "An apparatus in presses for obtaining leaden pipes, which are tinned inside."—Dated 1st December, 1858; Cancelled 4th May, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

List of Specifications published during the week ending 10th June, 1859.

No.	Price.	Subject-Matter.
		(*Disclaimer*, 1857.)
2435	3*d.*	Preparation of food for cattle.
		1858.
2258	1*s.* 1*d.*	Apparatus for working signals on railways.
2429	2*s.* 9*d.*	Machinery for weaving velvets and other pile fabrics.
2453	10*d.*	Billiard tables, &c.
2454	3*d.*	Brushes or brooms.
2455	3*d.*	Tanning hides and skins.
2456	3*d.*	Machinery for drying yarns, &c.
2460	7*d.*	Preserving the form of cops.
2461	1*s.* 2*d.*	Carriages.
2462	3*d.*	Driving machinery for thrashing grain.
2463	3*d.*	Gun stocks.
2464	3*d.*	Obtaining motive power.
2465	3*d.*	Drying yarns.
2466	3*d.*	Printing and dyeing woven fabrics.
2467	6*d.*	Treating air and gases for obtaining motive power.
2468	3*d.*	Telegraphing by electricity.
2469	3*d.*	Bracelets, necklets, and rings.
2470	3*d.*	Furnace bars.
2471	9*d.*	Machinery for making nails, &c.
2472	6*d.*	Preparing wood for substituting curled hair in the manufacture of mattresses, &c.
2473	3*d.*	Gun carriages and apparatus for lessening recoil.
2474	3*d.*	Steam engines, &c.
2475	3*d.*	Machinery for drying yarn, &c.
2476	3*d.*	Pianoforte action.
2477	10*d.*	Machinery for boring rocks and minerals for blasting, &c.
2478	3*d.*	Blasting powder.
2479	1*s.*	Apparatus for ascertaining the variation of ships' compasses.
2480	3*d.*	Parasols.
2581	1*s.* 1*d.*	Machinery for tunnelling, &c.
2482	6*d.*	Supplying tenders and boilers with water.
2483	3*d.*	Ships' block.
2484	3*d.*	Harness trace coupling.
2485	9*d.*	Kilns for burning earthenware.
2488	3*d*	Steam boilers and furnaces, &c.
2489	1*s.* 2*d.*	Manufacture of strips or bands of steel, &c.
2490	9*d.*	Machinery for preparing, spinning, and doubling cotton, &c.
2491	6*d.*	Fluid meter.
2492	3*d.*	Ornamenting fenders, stove grates, &c.
2493	9*d.*	Treating materials for the manufacture of paper, &c.
2494	10*d.*	Breakwaters, &c.
2495	5*d.*	Purchases.
2496	6*d.*	Steering apparatus.
2497	7*d.*	Rockets.
2498	6*d.*	Apparatus for supporting the hauling ropes of steam ploughs, &c.
2499	3*d.*	Drums.
2500	3*d.*	Manufacture of tubular iron.
2501	3*d.*	Manufacture of elastic fabrics.
2502	1*s.* 7*d.*	Machinery for working the propellers of vessels.
2503	7*d.*	Machinery for cultivating land, &c.
2504	6*d.*	Railway chairs, &c.
2505	4*d.*	Manufacture of paper.

List of Specifications—*continued.*

No.	Price.	Subject-Matter.
2506	7*d.*	Manufacture of locks and fastenings, &c.
2507	9*d.*	Vessels, and application of rudders thereto.
2508	5*d.*	Casters for furniture, &c.
2510	10*d.*	Signals for railways, &c.
2511	3*d.*	Fulling machines.
2512	3*d.*	Stairs.
2513	7*d.*	Apparatus for obtaining extracts or decoctions.
2514	3*d.*	Electric telegraphs.
2515	4*d.*	Electric telegraphing.
2516	1*s.* 11*d.*	Railways.
2521	3*d.*	Core bars.
2522	1*s.* 4*d.*	Steam engines and boilers.
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*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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NUMBER of VISITORS for the Week ending 11th June, 1859.

Mornings - - - -	880
Evenings - - - -	890
Total - - -	1770

Since the opening of the Museum Free Daily (May 12, 1858,)—105,610.

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B. WOODCROFT.

Great Seal Patent Office,
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 569. FRIDAY, JUNE 17, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

474. To PETER SPENCE, of Pendleton, in the county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in the manufacture of alum, and in the mode of, and apparatus for, condensing or destroying gases arising therefrom."

On his petition, recorded in the Office of the Commissioners on the 21st day of February, 1859.

626. To ROBERT HELLARD, Ironmonger, Taunton, Somerset, for the invention of "Improvements in reaping and mowing machines."

On his petition, recorded in the Office of the Commissioners on the 11th day of March, 1859.

688. To ROBERT CLEGG, of Islington, in the county of Middlesex, and RICHARD FELL, of Saint Ann's Place, Limehouse, in the county of Middlesex, for the invention of "Improved apparatus for obtaining aerated fresh water from salt water."

On their petition, recorded in the Office of the Commissioners on the 18th day of March, 1859.

730. To THOMAS MANLOVE, of Radford Grove, Lace Manufacturer, and WILLIAM HODGKINSON, of New Lenton, Draughtsman, both in the county of Nottingham, for the invention of "A new method of manufacturing plain, figured, striped, and plaited textile fabrics in imitation of loom-made fabrics."

On their petition, recorded in the Office of the Commissioners on the 22nd day of March, 1859.

852. To FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, for the invention of "Improvements in open fire places."—A communication from abroad, by Calvin Dodge, of Pittsburgh, North America.

On his petition, recorded in the Office of the Commissioners on the 5th day of April, 1859.

946. To GERMAIN ABEILLOU, of Toulouse, a town of France, Joiner's Tool Manufacturer, for the invention of "An extensible arching plane."

On his petition, recorded in the Office of the Commissioners on the 15th day of April, 1859.

1082. To WILLIAM WINSTANLEY and JOSEPH KELLY, of Liverpool, in the county of Lancaster, Hydraulic Engineers, for the invention of "Improvements in pumps, and gearing and appliances for working the same."

On their petition, recorded in the Office of the Commissioners on the 30th day of April, 1859.

1106. To THOMAS WILLIAM MILLER, of Her Majesty's Dockyard, in the parish of Portsea, in the county of Southampton, for the invention of "Improvements in apparatus for and mode of generating steam and economising fuel."

1108. And to WILLIAM SELLERS, of Philadelphia, in the state of Pennsylvania, United States of America, Engineer and Machinist, for the invention of "Improvements in couplings for shafting."—Partly a communication from Coleman Sellers, resident at Philadelphia aforesaid.

On both their petitions, recorded in the Office of the Commissioners on the 3rd day of May, 1859.

1176. To WILLIAM OLAND BOURNE, of the city and state of New York, United States of America, for the invention of "Improvements in the means of and apparatus for separating metals, ores, and other substances of different specific gravities."

On his petition, recorded in the Office of the Commissioners on the 10th day of May, 1859.

194. To WILLIAM WARNE, JOHN AMERICUS FANSHAWE, JAMES ARCHIBALD JAQUES, and THOMAS GALPIN, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for the invention of "An improved compound or preparation of materials for, and mode of, and apparatus for, covering and insulating wires or conductors used for telegraphic or electrical purposes."

On their petition, recorded in the Office of the Commissioners on the 12th day of May, 1859.

1230. To ALEXANDER ROBERT TERRY, Civil Engineer, of No. 24, Great George Street, Westminster, for the invention of "Improvements in apparatus for sawing and cutting up loaf sugar."

On his petition, recorded in the Office of the Commissioners on the 18th day of May, 1859.

1244. To GEORGE JOHN PARFITT, of the city of Bath, in the county of Somerset, City Surveyor, for the invention of "Improvements in gas burners."

On his petition, recorded in the Office of the Commissioners on the 20th day of May, 1859.

1252. To ALEXANDER LEPETIT TAYLOR, of 16, Ludgate Hill, in the city of London, for the invention of "An improved form of harmonican pianoforte."

On his petition, recorded in the Office of the Commissioners on the 21st day of May, 1859.

1260. To JOHN HENRY BRIERLEY, Manufacturer, Stannary Works, Halifax, and GEORGE OLD, Warehouseman, of Temple Street, Birmingham, for the invention of "A brace buckle."

1262. To ROBERT VALENTINE LEACH, of Briton Ferry, in the county of Glamorgan, and of Devizes, in the county of Wilts, Tin Plate Manufacturer, and THOMAS WILLIAM WILLETT, of Pont-Neath-Vaughan, in the county of Brecon, Civil Engineer, for the invention of "Improvements in the manufacture of tin plates and terne or leaded plates, and in the apparatus connected therewith."

264. To GEORGE BURNELL, of East Hoathly, in the county of Sussex, Gentleman, for the invention of "An improved preparation or medicine for the cure of ague."

1266. To HARRY ARTHUR COOKE, of Chancery Lane, in the county of Middlesex, for the invention of "Improvements in omnibuses."

1268. To CHARLES PETERS MOODY, of Corton Denham, in the county of Somerset, Gentleman, for the invention of "Improvements in machinery for the manufacture of matting or fabric from straw and other vegetable fibres, and rods or bars of wood and metal."

1270. To FREDERICK JOSEPH BRAMWELL, of Great George Street, Westminster, in the county of Middlesex, for the invention of "Improvements in apparatus for raising ships and vessels out of the water."—Partly a communication from abroad by Messieurs Miers Brothers and Naylor, of Rio de Janeiro.

1272. To NATHANIEL SHATSWELL DODGE, of 44, St. Paul's Churchyard, in the city of London, Merchant and Manufacturer, for the invention of "Improvements in treating waste vulcanized india rubber."—A communication from abroad by Hiram Lyman Hall, of Beverley, Massachusetts, United States of America.

1274. And to NATHANIEL SHATSWELL DODGE, of 44, St. Paul's Churchyard, in the city of London, Merchant and Manufacturer, for the invention of "Improvements in finishing, coloring, and varnishing india rubber goods, and similar manufactures."—A communication from abroad, by Hiram Lyman Hall, of Beverley, Massachusetts, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of May, 1859.

1276. To JAMES STANSFIELD, of Batley, in the county of York, Woollen Spinner, for the invention of "Improvements in the permanent way of railways."

1278. To JAMES CRAIG FISHER, of No. 51, Cathedral Street, Glasgow, Manager of Cook's Patent Composition Company, for the invention of "Improvements in preparing paints and varnishes."

1280. To JOSEPH GIBBS, of Brentford, in the county of Middlesex, Civil Engineer, for the invention of "A method of treating coal, shale, lignites, and peat, in order to manufacture manure."

1282. To GEORGE HADFIELD, of Carlisle, in the county of Cumberland, Varnish Manufacturer, for the invention of "An improved arrangement of heating and evaporating apparatus."

1284. And to ANTOINE JOSEPH SAX, trading under the firm of Adolphe Sax, of Paris, France, Musical Instrument Maker, for the invention of "Improvements in wind musical instruments."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of May, 1859.

1288. To DAVID SIMPSON PRICE, of No. 7, Green Street, Grosvenor Square, in the county of Middlesex, Analytical Chemist, for the invention of "Improvements in the production of colors for dyeing and printing."

1290. To EDWIN MAW, of the Doncaster Ironworks, Yorkshire, for the invention of "Improvements in the construction of metallic bedsteads and other furniture."

1292. To ALEXANDER PRINCE, of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for the invention of "Improvements in screw propellors."—A communication from abroad by Hermann Hirsch, resident at Berlin, in the kingdom of Prussia.

1294. To JOHN MALLET, of Barnstaple, in the county of Devon, Watch Manufacturer, Silversmith, and Jeweller, for the invention of "An improved regulator for watches, portable clocks, and time-pieces."

1296. And to JAMES HOWARD, of Bedford, Agricultural Implement Maker, for the invention of "An improved construction of horse-rake."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of May, 1859.

1298. To JAMES WEBSTER, of Birmingham, in the county of Warwick, Engineer, for the invention of "An improvement or improvements in pressure and vacuum guages."

1299. To Joseph Reynolds, of No. 11, Carthusian Street, Charterhouse Square, London, Gentleman, for the invention of "Improvements in propelling vessels."

1300. To Hugh William Patrick, of No. 4, Mill Hill Terrace, Acton, in the county of Middlesex, for the invention of "A new substance or material to be used in lieu of ivory and other like substances."

1301. To Charles Dorn, of Stuttgart, in the kingdom of Wurttemburg, but now residing at Birmingham, in the county of Warwick, Mining Engineer, for the invention of "Improvements in kilns for baking or burning China earthenware and bricks, and for other like purposes."

1302. To John Young, of Wolverhampton, in the county of Stafford, Manufacturer, for the invention of "Improvements in locks, and in the manufacture of knobs for locks and latches, and also in apparatus for preventing draughts and keeping out wet from doors and windows."

1303. To Peter Effertz, of Manchester, in the county of Lancaster, Mechanical Engineer, for the invention of "Certain improvements in machinery or apparatus for cutting paper, pasteboard, cardboard, and also for cutting or slicing wood into thin scaleboard or veneers, or for similarly cutting other articles."

1304. To George Frederic Chantrell, of Liverpool, in the county of Lancaster, Furnace Engineer, for the invention of "Improvements in the construction of charcoal kilns, and in the manufacture of coolers for charcoal kilns."

1305. To William Henry Nevill, of Llanelly, in the county of Carmarthen, Manufacturer, for the invention of "Improvements in the manufacture of steel and wrought iron."

1306. To John Draper, of 5, Little Tower Street, in the city of London, for the invention of "Improvements in applying indices to account and other books."

1307. To Michael Michaelis, of Manchester, in the county of Lancaster, Clerk, and Robert Kershaw, of Heywood, in the said county, Manufacturer, for the invention of "Improvements in the manufacture of velvets and other piled fabrics."

1308. To James Corn Bent, of Birmingham, in the county of Warwick, Gas Meter Manufacturer, for the invention of "Improvements in gas-meters."

1309. And to William Wright, of Deptford, in the county of Kent, for the invention of "Improvements in fastening shirts, collars, and other articles of wearing apparel."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of May, 1859.

1311. To William Weild, of the city of Manchester, in the county of Lancaster, Machinist, for the invention of "Improvements in looms for weaving pile fabrics."

1312. To Marc Antoine François Mennons of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "An improved mode of advertising."—A communication from Albano Gatte, a foreigner, residing in Paris.

1313. To Patrick Aitchison, Brass Founder, and Thomas Binks, Plumber, both of Sheffield, in the county of York, for the invention of "Improvements in self-acting and other water closets, and in flushing apparatus connected therewith."

1314. To Leon Farrenc, Gentleman, and Bernard Subra, Professor of Mathematics, both of Paris, France, for the invention of "Improvements in gas lighting by means of direct carburators."

1315. To Hilary Nicholas Nissen, of Mark Lane, in the city of London, Stationer and Printer, for the invention of "An improvement in book indexes."

1316. And to George Hadfield, of Carlisle, in the county of Cumberland, Varnish Manufacturer, for the invention of "Improvements in the mode of and apparatus for forming casks or barrels."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of May, 1859.

1317. To Bernhard Samuelson, of Banbury, in the county of Oxford, for the invention of "Improvements in machines for cutting roots and other vegetables."

1318. To Thomas Wilson, of Birmingham, in the county of Warwick, Engineer, for the invention of "Improvements in breech-loading fire-arms and ordnance."

1319. To Walter Crum, of Thornliebank, in the county of Renfrew, Bleacher and Calico Printer, for the invention of "Improvements in printing and dyeing textile fibres and fabrics."

1320. To William Henry Graveley, of Upper East Smithfield, in the county of Middlesex, Engineer, for the invention of "Improvements in apparatuses for purifying and aërating sea water, parts of which may be employed for cooking and baking purposes."

1321. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in machinery for cleaning, grinding, and bolting corn and other grain."—A communication from abroad by Jean Baptiste Falguière, of Marseilles.

1322. To Joseph Oldbury, Gun and Pistol Maker, of Summer Row, Handsworth, in the county of Stafford, for the invention of "Improvements in breech-loading fire-arms, applicable to pistols, muskets, carbines, and birding or other guns."

1323. And to John Bapty, of Leeds, in the county of York, Foreman, for the invention of "An improved mode of, and apparatus for, manufacturing felted cloth.'

On their several petitions, recorded in the Office of the Commissioners on the 28th day of May, 1859.

1324. To Marcus Davis, of 5, Lyon's Inn, Strand, in the city of Westminster, Caoutchouc Wheel Manufacturer, for the invention of "Improvements in the construction of wheels, axles, and boxes for carriages."

1325. To Archibald Smith, Engineer, of 69, Princes Street, Leicester Square, London, for the invention of "Improvements in machinery for

making lines, ropes, and cables, for telegraphic and other purposes."

1326. To WESTON GRIMSHAW, of Bowdon, in the county of Chester, Gentleman, for the invention of "Certain improvements in machinery for compressing bricks, tiles, artificial fuel, and other similar articles."

1327. To EDGAR BREFFIT, of 61, King William Street, in the city of London, Glass Manufacturer, for the invention of "Improvements in machinery or apparatus for the manufacture of hollow corks."

1328. To JOHN BRUCE, of Tiddington, near Stratford-on-Avon, in the county of Warwick, Agricultural Implement Maker, for the invention of "An improvement in agricultural drills."

1329. To WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture of iron and steel."

1330. To JAMES FRY, of Wrotham, Sevenoaks, in the county of Kent, Miller, for the invention of "An improvement in mills for grinding."

1331. To OLIVER MAGGS, of Bourton, in the county of Dorset, for the invention of "Improvements in harrows."

1332. To WILLIAM GREEN, of Victoria Works, Dod Street, Limehouse, in the county of Middlesex, for the invention of "Improvements in washing or purifying and treating sugar."

1333. To ISAAC BLACKBURN and ROBERT BLACKBURN, both of Long Eaton, in the county of Derby, Engineers, for the invention of "Improvements in locomotive or traction engines, and in implements connected therewith for cultivating the soil."

1334. To JAMES LEE NORTON, of Belle Sauvage Yard, Ludgate Hill, in the city of London, for the invention of "Improvements in machines for stretching and drying fabrics, and in drying wool and other fibres."

1335. To ARTHUR MICKELTHWATE, JOSEPH PEACE, and SAMUEL JOHNSTONE HOBSON, all of Sheffield, in the county of York, for the invention of "Improvements in the coating and covering of metallic springs, steel, iron, and other metal bands for the use of any kind of machinery, driving bands, or straps, ribs suitable for umbrellas and parasols, staybusks, and ribs for stays, hats, bonnets, reeds, and crinoline, and articles of dress, and ohter useful purposes."

1336. To ENOCH LEESON, of No. 13, Traffic Street, Derby, in the county of Derby, Lace Manufacturer, for the invention of "Improvements in machinery for the manufacture of ornamental chenille fringes and braids or other fabrics."

1337. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Certain improved means of reefing and shortening sail in ships and other vessels."—A communication from abroad by Enoch Erastus Mulliner, of New York, in the United States of America, Mariner.

1338. And to WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "A new manufacture of leaven."—A communication from abroad by Frederic Ludewig, Manufacturing Chemist, Paris.

On their several petitions, recorded in the Office of the Commissioners on the 30th day of May, 1859.

1340. To JAMES SEPTIMUS COCKINGS, Civil Engineer, of Ann Street, Birmingham, in the county of Warwick, for the invention of "Certain improvements in the construction of self-adjusting cases for holding and carrying cartridges of various sizes or guages, parts of which improvements are also applicable to cartridge-carriers now in use."

1341. To SAMUEL CARR and GEORGE BUTTERWORTH, of the firm of Carr and Butterworth, of Leeds, in the county of York, Manufacturers, for the invention of "Improvements in the manufacture of felted cloth, and in the machinery or apparatus employed in such manufacture."

1342. To EDWIN ARCHER WOOD, of Victoria Terrace, Notting Hill, in the county of Middlesex, of the Peninsular and Oriental Steam Navigation Company, and MARTIN DADD ROGERS, of Bromley, in the county of Middlesex, Shipwright, for the invention of "Improved apparatus for raising and lowering boats."

1343. To JAMES WANSBROUGH, of Bridge Street, in the borough of Southwark, Gentleman, for the invention of "Improvements in the construction of stereoscopes."—A communication from abroad by Egbert Moxham, of Bruges, in the kingdom of Belgium.

1344. To GEORGE HENRY SMITH, of the city of Manchester, in the county of Lancaster, for the invention of "Improvements in sewing machines."

1345. To PHILIPPE GAMBARDELLA, of Naples, Engineer, at present temporarily residing at the Office for Patents, 123, Chancery Lane, London, for the invention of "Improvements in obtaining motive power, and in machinery or apparatus connected therewith."

1346. To JOHN JAMES LUNDY, of the city of Manchester, in the county of Lancaster, and of Leith, North Britain, Colour and Varnish Manufacturer, for the invention of "Improvements in cartridges and gun-wads, for facilitating the loading and lubricating of fire-arms."

1347. To ALFRED SUTER, of 65, Fenchurch Street, in the city of London, for the invention of "A furniture castor, to be used upon the feet of tables, seats, and all descriptions of furniture or other things."

1348. And to FREDERICK ROBERTS, of Maiden Newton, and ALEXANDER ROBERTS, of Frome, Vanchurch, both in the county of Dorset, for the invention of "Improvements in apparatus employed for ploughing, tilling, or cultivating land, when steam power is employed."

On their several petitions, recorded in the Office of the Commissioners on the 31st day of May, 1859.

1349. To JEAN FELIX MIQUEL, of Paris, France, Physician, for the invention of "Improvements in trusses."

On his petition, recorded in the Office of the Commissioners on the 1st day of June, 1859.

1351. To FRANCIS WALTER SALTONSTALL, of Northumberland Street, Strand, in the county of

Middlesex, and ALFRED BUSH, of Hanover Cottage, Park Road, St. John's Wood, in the county of Middlesex aforesaid, for the invention of "An improved machine or apparatus for dredging and excavating."

1352. To MYRON HOLLEY CHAPIN, of 4, Gresham Street, in the city of London, and of Murray Street, New York, United States of America, Merchant, for the invention of "Improvements in galloons, tapes, or ribbons, for supporting steel and other hoops used for distending ladies' dresses."

1353. To ROBERT KAY WHITEHEAD, of Elton, near Bury, in the county of Lancaster, Bleacher, Dyer, and Printer, for the invention of "Improvements in apparatus to be used in bleaching, dyeing, and extracting the colouring matter from dye materials."

1354. To SAMUEL WOOD and JOHN WOOD, both of the city of Manchester, Embroiderers, and PHILLIP BILLINGTON, of Rusholme, near the city of Manchester, Mechanic, for the invention of "Certain improvements in and applicable to machines for embroidering."

1355. To ALEXANDER SMITH and WILLIAM SMITH, both of Glasgow, in the county of Lanark, North Britain, Engineers, for the invention of "Improvements in machinery for curing sugar, and for separating solid and liquid substances by centrifugal force."

1356. To SAMUEL BURY, of Manchester, in the county of Lancaster, Manager, for the invention of "Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces."

1357. To SAMUEL BURY, of Manchester, in the county of Lancaster, Manager, for the invention of "Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces."

1358. To WILLIAM HENRY PARKES, of Birmingham, in the county of Warwick, Manufacturer, and WILLIAM BAGNALL, of Birmingham aforesaid, Plater, for the invention of "A new or improved ventilator for hats and other head coverings, and also for carriages."

1359. To TIMOTHY WHITBY, of Millbank Street, Westminster, and WILLIAM DEMPSEY, of Great George Street, Westminster, in the county of Middlesex, Civil Engineers, for the invention of "Improvements in, and applicable to, ordnance and fire arms, and in the projectiles to be used therewith."

1360. And to JEAN BAPTISTE PASCAL, of Paris, in the empire of France, Civil Engineer, for the invention of "Improvements in hot-air engines."

On their several petitions recorded in the Office of the Commissioners, on the 2nd day of June, 1859.

1361. To JOHN WILSON, of St. Helens, in the county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in the manufacture of carbonate of soda."

1362. To JOHN EDWARDS, of 77, Aldermanbury, in the city of London, for the invention of "Improvements in the manufacture of anchors."

1363. To ROBERT WILLIAM SIEVIER, of Upper Holloway, in the county of Middlesex, but now residing in Hull, in the county of Yorkshire, in the kingdom of Great Britain, for the invention of "Improvements in smelting and purifying of iron and other ores."

1364. To JOSEPH ONIONS, of Darlaston, in the county of Stafford, Engineer, for the invention of "A new or improved steam boiler."

1365. To ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement or improvements in the manufacture of iron and steel."

1366. To HERBERT NEWTON PENRICE, of Witton House, near Norwich, for the invention of "Improvements in machinery for propelling vessels."

1367. To JOHN KYLE, of Liverpool, in the county of Lancaster, Pointsman, for the invention of "Improvements in points for railways and chairs for the same."

1368. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in reducing solid substances to powder, and in the machinery or apparatus employed therein."—A communication from abroad by William James Cantelo, of Burlington, Burlington county, state of New Jersey.

1369. To JEAN JOSEPH BARANOWSKI, of Paris, in the empire of France, Gentleman, for the invention of "Improvements in railway signal apparatuses."

1370. To ALEXANDER ROBERTSON ARROTT, of Saint Helen's, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture of soda."

1371. To JAMES BURROW, of Ashford Parsonage, Bakewell, in the county of Derby, Clerk in Holy Orders, and WILLIAM NEWTON WILSON, of 144, High Holborn, in the county of Middlesex, for the invention of "An improved floor scrubber and sweeper for carpets, floors, lawns, and other such like useful purposes."

1372. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improvement in balancing millstones."—A communication from abroad by John Fairclough, of Louisville, in the county of Jefferson, and state of Kentucky, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of June, 1859.

1373. To HENRY CROSSLEY, of Failsworth, near Manchester, in the county of Lancaster, for the invention of "Improvements in Jacquard machines."

1374. To RICHARD CHRIMES, of Rotherham, in the county of York, Brass and Iron Founder, for the invention of "Improvements in apparatus for supplying water to, and discharging the contents from, urinals, wash hand basins, and other similar articles."

1375. To EDWARD GILL, of the Elms, St. Ann's Road, Wandsworth Common, in the county of Surrey, Distiller, for the invention of "Improvements in producing spirit from rice, maize, and other descriptions of grain,"

1376. To JAMES NUTTALL, of Old Accrington, Beerseller, GEORGE RIDING, of Clayton-le-Moors, Medical Botanist, and WILLIAM COULTHURST, of Old Accrington, Chemist, all in the county of Lancaster, for the invention of "An improved size powder, to be used in sizeing cotton, linen, or other warps for weaving."

1377. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "An improvement in wearing apparel."—A communication from abroad by Gabriel Jean Julien Laury, of Paris, in the empire of France.

1378. To JAMES WOOD and WILLIAM WOOD, both of the town and county of the town of Nottingham, Lace Manufacturers, for the invention of "A peculiar mode or method of dying lace or other fabrics, and making the same into bonnet and cap fronts, or other articles."

1379. And to CHRISTOPHER JAMES, of Mountain Ash, Aberdare, in the county of Glamorgan, Agent, for the invention of "An improvement in the manufacture of railway chairs."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of June, 1859.

1382. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improvements in paddle wheels and screw propellers for steam vessels."—A communication from abroad by Auguste Jouan, of San Francisco, California.

1384. And to WILLOUGHBY GREEN, of No. 2, Victoria Street, in the city of London, and of Leeds, in the county of York, for the invention of "Improvements in mowing machines."

On both their petitions, recorded in the Office of the Commissioners on the 6th day of June, 1859.

1386. To KENNETH HENRY CORNISH, of 5, Essex Court, Middle Temple, Surgeon, M.R.C.S., F.M.S., for the invention of "Improvements in bedsteads, sofas, couches, and chairs, applicable to other seats or reclining surfaces."

1388. To WILLIAM BRYER NATION, of Union Row, Union Bridge, Rotherhithe, London, Analytical Chemist, for the invention of "Improvements in the manufactnre of superphosphate of lime."

1390. To ROBERT BARCLAY, of Bucklersbury, in the city of London, for the invention of "Improvements in the manufacture of paper from which writing or other inks cannot be expunged or extracted without detection."

1392. And to ROBERT RIDDELL FAIRGRIEVE, of Boston, in the United States of America, Machinist, and SIMEON BATHGATE, of the town and county of Selkirk, North Britain, Engineer, for the invention of "Improvements in machinery or apparatus for winding yarns or thread."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of June, 1859.

1394. To JOHN HENDERSON, WILLIAM HENDERSON, and THOMAS BAGLEY, of the city of Durham, Carpet Manufacturers, and SAMUEL HOLDSWORTH, of the same place, Engineer to Messrs. Henderson and Company, for the invention of "Improvements in looms for weaving, some of which improvements are applicable to other purposes."

1396. To JOSEPH BENNETT HOWELL, of Sheffield, in the county of York, Steel Manufacturer, JOHN HICK, of Great Bolton, in the county of Lancaster, Iron Founder, and WILLIAM HARGREAVES, of the same place, Ironfounder, for the invention of "Improvements in apparatus for applying heat to steam or other boilers or vessels, and for facilitating the combustion of gases and smoke."

1398. To JEAN BAPTISTE MOLOZAY, of No. 68, Rue d'Angoulême du Temple, in the city of Paris, Gentleman, for the invention of "New means of manufacturing velvet."

1400. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in gas meters."—A communication from abroad by William Richards, of Barcelona, in the kingdom of Spain.

On their several petitions, recorded in the Office of the Commissioners on the 8th day of June, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

17th June, 1859.

2900. JAMES MACKENZIE, Manager to William Strode, of Saint Martin's le Grand, in the city of London, Gas Engineer, for an invention of "Improvements in those gas burners known as ventilating sun burners." — Dated 18th December, 1858.

2902. JAMES TAYLOR, of Birkenhead, Engineer, for an invention of "Improvements in the construction of pumps or engines for lifting and discharging water."—Dated 18th December, 1858.

2908. SAMUEL HUNTER, of Newcastle-upon-Tyne, Gentleman, for an invention of "Improvements in the construction of anchors."—Dated 20th December, 1858.

2910. JAMES RONALD, of Liverpool, in the county of Lancaster, Merchant, for an invention of "An improved machine for the direct spinning of hemp, flax, and other like fibrous materials."—Dated 20th December, 1858.

2914. WILLIAM ELBERT DANDO, of the state of Pennsylvania, in the United States of America, at present residing in Manchester, in the county of Lancaster, Clerk, for an invention of "Improvements in apparatus for lowering boats from ships or vessels, and also for raising the same as required."—Dated 21st December, 1858.

2924. Michael Kenney, of Queen Street, Dublin, Mechanical Engineer, for an invention of "Improvements in bridges."—Dated 22nd December, 1858.

2933. James Ronald, of Liverpool, in the county of Lancaster, Merchant, for an invention of "Improvements in and machinery for the manufacture of 'hard-topped' and 'soft laid' twine, 'mill banding,' strands for ropes and other purposes and cordage generally from hemp, flax, cotton, and other like fibrous materials."—Dated 23rd December, 1858.

2958. William Armand Gilbee, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention of "Improvements in treating fatty bodies, and in the apparatus employed therein."—A communication from a Foreigner residing abroad.—Dated 27th December, 1858.

2961. Claude Mamès Augustin Marion, of Paris, in the empire of France, Manufacturer, for an invention of "An improved box or case for containing and preserving sensitive photographic paper, called 'Marion's box.'"—Dated 27th December, 1858.

2997. John Wallace Duncan, of Grove End Road, St. John's Wood, in the county of Middlesex, Gentleman, for an invention of "Improvements in or connected with appliances for transmitting or conducting signals or action by electricity or magnetism, and in the method of testing insulating materials, combinations, or structures for conducting electricity, and in treating malconstructed or invalid electric telegraph cables, and in utilizing parts of certain cables, or the application otherwise of such structures, and in certain insulating compounds, and in the apparatus and machinery used in connection therewith."—Dated 30th December, 1858.

30. Jacob Furnival, of Leamington, in the county of Warwick, Thomas Furnival, of Colridge, John Derbyshire, of Longton, and Francis Joseph Emery, of Burslem, all in the county of Stafford, for an invention of "Improvements in apparatus for supporting articles of china and earthenware in kilns and ovens."—Dated 3rd January, 1859.

40. Robert Rumney, of Manchester, in the county of Lancaster, Manufacturing Chemist, and William Stevenson Macdonald, of the same place, Mechanic, for an invention of "Improvements in printing and dyeing woven fabrics and yarns or threads."—Dated 5th January, 1859.

82. Benjamin Robbin, of Yarmouth, Nova Scotia, Master Mariner, for an invention of "Improvements in the machinery for working pumps."—Dated 11th January, 1859.

100. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "A new or improved metallic alloy."—Dated 12th January, 1859.

132. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in the manufacture of cast steel."—Dated 15th January, 1859.

134. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement or improvements in the manufacture of cast steel."—Dated 15th January, 1859.

234. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improvement in life preserving vests."—A communication from T. A. Delano, residing in the United States of America.—Dated 25th January, 1859.

310. Henry Constantine Jennings, of 8, Great Tower Street, in the city of London, Practical Chemist, for an invention of "Improvements in the manufacture of paper and artificial parchment, and of gelatine, applicable to the sizeing of the same and other purposes."—Dated 3rd February, 1859.

860. Isaac Adams, of the state of Massachusetts, of the United States of America, for an invention of "An improved tubular chain cable guide for vessels bulwarks."—A communication from Alfred S. Phillips, a resident of Boston, of the said state of Massachusetts.—Dated 6th April, 1859.

988. Alexander William Williamson, of University College, London, for an invention of "Improvements in making extracts from liquorice root."—Dated 19th April, 1859.

1110. Jedediah Morse, of the state of Massachusetts, of the United States of America, for an invention of "An improved power printing press." Dated 3rd May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 15th June, 1859, inclusive.*)

13th June.

1418. Edouard Guérin, of Paris, in the empire of France, Civil Engineer, for an invention of "A self-acting apparatus for working railway breaks."—Dated 16th June, 1856.

14th June.

1336. William Smith, of 82, Margaret Street, Cavendish Square, in the county of Middlesex, Engineer, for an invention of "Improvements in apparatus for regulating the supply of air to furnaces."—Dated 4th June, 1856.

15th June.

1453. James Bullough, of Accrington, in the county of Lancaster, Manufacturer, for an invention of "Improvements in looms."—Dated 20th June, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents which were Granted, Prolonged, or became Void during the Month of March, 1859.†

(*Communicated by the Austrian Government.*)

1. Patents Granted.

1. Lorenz Nemelka, of Fischamend, for "Improvements in machines for grinding and cleaning corn and for rolling barley."—1 year.—(Secret.)—Dated 3rd March, 1859.

2. M. A. Franz Mennons, of Paris, represented by A. Martin, Vienna, for "A peculiar apparatus for preventing incrustations of steam boilers."—1 year.—(Secret.)—Dated 3rd March, 1859.

3. Alois Görlich, of Vienna, for "A peculiar method of plastering streets."—1 year.—(Secret.)—Dated 4th March, 1859.

4. Friedrich Rödiger, of Vienna, for "Improvements in apparatus for preserving timber."—1 year.—(Secret.)—Dated 4th March, 1859.

5. Dollfuss, Mieg and Co., of Mulhouse, France, represented by Georg Märkl, Vienna, for "A peculiar application in calico-printing."—1 year.—(Secret.)—Dated 4th March, 1859.

6. Carl and Joseph Koppitz, Louise and Pauline Paltauf, of Vienna, for "Improvements in sewing machines, whereby the chief parts are totally altered and partly superseded by new ones."—1 year.—(Secret.)—Dated 4th March, 1859.

7. Sommereyer and Co., Emil Baars and Carl Keck, of Vienna, for "Manufacture of fire-proof safes in all shapes."—1 year.—(Secret.)—Dated 4th March, 1859.

8. William Sellers, of Philadelphia, U.S., represented by Dr. C. W. Tremel, Vienna, for "Improvements in vertical boring and turning machines for removing the usual vibration therein, for rendering those machines complete by themselves, and for rendering the axis of the disk independent from the stone or brick foundation."—1 year.—(Public.)—Dated 4th March, 1859.—(American Patent, 23rd June, 1857.)

9. Adolph Steinberger, of Vienna, for "Elastic expansive spring garments for ladies."—1 year.—(Secret.)—Dated 7th March, 1859.

10. Rudolph Wappenstein, of Manchester, represented by Friedrich Paget, Vienna, for "Improvements in the manufacture of artificial whalebone."—3 years.—(Public.)—Dated 7th March, 1859.

11. W. H. Sleeboom, of Hamburg, represented by Dr. Julius Cölestin Serdl, Vienna, for "A peculiar construction of keels for preventing the drifting of vessels."—1 year.—(Secret.)—Dated 7th March, 1859.

12. Ignaz Strassenreiter, of Pesth, for "Improvements in the manufacture of soap for softening the skin by applying vegetable substances thereto."—1 year.—(Secret.)—Dated 7th March, 1859.

13. Daniel Heindörffer, of Hervatö, Hungary, for "An expeditious and cheap mode of obtaining artificial manure from vegetable ingredients by applying heat and dampness."—1 year.—(Secret.) Dated 7th March, 1859.

14. Alexander Kapper, of Prague, for "Fastening ladies' mantles and cloaks without using buttons and hooks."—3 years.—(Secret.)—Dated 7th March, 1859.

15. Franz Stiehler, of Vienna, for "An improved system of suspension-bridges."—1 year.—(Public.)—Dated 7th March, 1859.

16. Ignaz Prasch, of Wiener, Neustadt, for "A peculiar construction of a self-acting cooling apparatus applicable to all corn mills for obtaining fine and cheap flour."—3 years.—(Public.)—Dated 7th March, 1859.

17. Rudolph Dittmar, of Vienna, for "A peculiar construction of lamps for burning strong mineral oils (solar oil) without causing smoke or smell.—1 year.—(Secret.)—Dated 7th March, 1859.

18. Bernhard Oblat, of Vienna, for "A peculiar one-horse carriage, or travelling public closet."—1 year.—(Secret.)—Dated 7th March, 1859.

19. William Stettinus Clark, of London, represented by S. M. Krohn, Vienna, for "A peculiar construction of harvesting and mowing machines."—3 years.—(Secret.)—Dated 7th March, 1859.—(English Patent, 5th April, 1858.)

20. Johann Weber, of Wiener, Neustadt, for "Improvements in the construction of nibbling mills and hand mills."—2 years.—(Secret.)—Dated 11th March, 1859.

21. Friedrich Rödiger, of Vienna, for "An apparatus in bridles for stopping fiery horses at once."—1 year.—(Secret.)—Dated 11th March, 1859.

22. Sebastian Grandis, of Turin, represented by G. Märkl, Vienna, for "A peculiar system of railway splints or wedges placed underneath."—1 year—(Public.)—Dated 11th March, 1859.

23. Marcus Anton Franz Mennons, of Paris, represented by A. Martin, Vienna, for "A composition for preventing incrustations in steam boilers."—1 year.—(Secret.)—Dated 11th March, 1859.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

24. Heinrich Meyer, of Bubendorf, represented by August Schmidt, Vienna, for "Improvements in power-looms."—5 years.—(Secret.)—Dated 11th March, 1859.

25. Heinrich Wilhelm Wimshurst and Franz Truemann, of London, represented by Eduard Schmidt, Vienna, for "Improvements in the manufacture of metal sheets and plates to be used as lead and tin foils."—5 years.—(Secret.)—Dated 14th March, 1859.

26. Carl Hahn, of Rustendorf, near Vienna, for "Manufacture of pasteboard and paper from the waste of leather."—1 year.—(Secret.)—Dated 15th March, 1859.

27. Friedrich Paget, of Vienna, for "Improved springs for carrying weights and moderating concussion."—5 years.—(Public.)—Dated 15th March, 1859.

28. Adrian Stokar, of Laibach, for "An economical method of manufacturing nuts."—1 year.—(Public.)—Dated 15th March, 1859.

29. Julius Spitzer, of Pesth, for "Improvements in ladies' dresses by means of a peculiar lining."—1 year.—(Secret.)—Dated 15th March, 1859.

30. Leopold Platschick, of Verona, for "An improved aromatic tooth paste which does not dry."—5 years.—(Secret.)—Dated 16th March, 1859.

31. Leopold Platschick, of Verona, for "An improved aromatic liquid for improving the mouth."—5 years.—(Secret.)—Dated 16th March, 1859.

32. Heinrich Gerner, of New York, represented by Johann Baptist Kuffner, Vienna, for "An economical apparatus for purifying gas."—1 year.—(Secret.)—Dated 16th March, 1859.

33. Ferdinand Sallegg, of Gratz, for "Improvements in the manufacture of impervious galoshes of calf or lambskin for ladies and gentlemen."—1 year.—(Public.)—Dated 17th March, 1859.

34. Penney Youngs, of New York, represented by Dr. C. W. Tremel, Vienna, for "Improvements in sawing machines."—1 year.—(Public.)—Dated 17th March, 1859.—(American Patent, 30th January, 1855.)

35. Wilhelm Sellers, of Philadelphia, represented by Dr. C. W. Tremel, Vienna, for "Improvements in screw-cutting machines."—1 year.—(Public.)—Dated 17th March, 1859.—(American Patent, 1st December, 1857.)

36. Tallachini Brothers, of Milan, for "A machine for reeling Chinese raw silk."—5 years.—(Secret.)—Dated 17th March, 1859.

37. Theodor Dosch, of Vienna, for "Carriage steps for controlling passengers."—1 year.—(Secret.)—Dated 18th March, 1859.

38. Clayton, Shuttleworth, and Co., of Vienna, for "Improvements in machines for removing the grain from maize stalks."—5 years.—(Public.)—Dated 18th March, 1859.

39. Ferdinand Troll, of Vienna, for "Chimney-tops for preventing smoke arising from gushes of wind."—2 years.—(Secret.)—Dated 19th March, 1859.

40. Leopold Jellinek, of Vienna, for "An apparatus in closets for keeping the seats clean and preventing bad smell."—1 year.—(Public.)—Dated 19th March, 1859.

41. Ludwig Häcker and Mathias Humbel, of Ungarisch Altenburg, for "A peculiar machine for cleaning malt."—1 year.—(Secret.)—Dated 19th March, 1859.

42. Anton Louis Adolph Favier, of Paris, represented by Georg Märkl, Vienna, for "Improvements in expeditious tanning."—1 year.—(Secret.)—Dated 19th March, 1859.

43. Peter Joseph Bruno Elias Cabanes, of Bordeaux, represented by Cornelius Kasper, Vienna, for "Improved mechanical sieves for sieving grain, flour, bran, &c."—1 year.—(Secret.)—Dated 20th March, 1859.

44. Eduard Lackner, of Vienna, for "A peculiar mode of manufacturing metal buttons for uniforms and liveries."—1 year.—(Public.)—Dated 20th March, 1859.

45. Peter Konorig, of Pesth, for "Improvements in suspending men's dresses."—1 year.—(Secret.)—Dated 20th March, 1859.

46. Carl Tharesig, of Vienna, for "A so-called 'vegetable essence' for cleaning and preserving the teeth and mouth."—1 year.—(Secret.)—Dated 21st March, 1859.

47. Carl Schan, of Vienna, for "Improvements in apparatus for obtaining hot feed water for all kinds of steam boilers."—2 years.—(Public.)—Dated 21st March, 1859.

48. Franz Bierenz, of Vienna for "A composition called 'indestructible universal composition,' for polishing and grinding."—1 year.—(Secret.)—Dated 21st March, 1859.

49. Sigmund Landauer, of Vienna, for "Carbonizing and compressing peat and other fuel by a wet process."—1 year.—(Secret.)—Dated 21st March, 1859.

50. Jacob Barth, of Krems, for "Improvements in the construction of iron bedsteads."—1 year.—(Public.)—Dated 21st March, 1859.

51. Emanuel Ritter and James Mellinger, of Pesth, for "Rendering button-holes more durable by the application of strings of gum elastic."—1 year.—(Secret.)—Dated 23rd March, 1859.

52. Michael Loup, of Givors, France, Louis Franz Clemens Breguet, and August Franz Koch, of Paris, represented by Cornelius Kasper, Vienna, for "A counter worked by magnets for ascertaining the flow of water, the speed of vessels, &c."—1 year.—(Secret.)—Dated 23rd March, 1859.

53. Juda Wiltschek, of Penzing, near Vienna, for "Improvements in soap which cleans well in little time."—1 year.—(Secret.)—Dated 23rd May, 1859.

54. Israel Weiss, of Ofen, for "Improvements in the treatment of animal skins in tanning, whereby the grease is removed therefrom and the fibres are strengthened."—3 years.—(Secret.)—Dated 26th March, 1859.

55. Sigmund Reinitz, of Pesth, for "Improvements in lining hats for preventing the effects of

perspiration."—3 years.—(Secret.) — Dated 26th March, 1859.

56. Eduard Strengsmann, of Vienna, for "Improvements in oil-lights for candelabra, being equal to gas lights."—1 year.—(Secret.)—Dated 26th March, 1859.

57. Perelis and Pollak, of Prague, for "Machines and manipulation for sorting, purifying, bleaching, and disinfecting feathers for beds."—1 year.—(Secret.)—Dated 26th March, 1859.

58. Friedrich Krüger, of Sudenburg Magdeburg, Bernhard Schäffer, of Magdeburg, and Christian Friedrich Budenberg, of Magdeburg, represented by O. E. Hörner, Vienna, for "A means of removing lime from sugar-juice, and of clarifying sacchariferous liquids."—2 years.—(Public.)—Dated 28th March, 1859.—(Prussian Patent, 25th August, 1858.)

59. Gustav Fritsche, of Biala, for "Obtaining soda from kitchen salt without using sulphuric acid."—1 year.—(Secret.) — Dated 28th March, 1859.

60. Carl Hoffmann, of Vienna, for "Manufacture of light, compendious, and durable cylinder-blasts with a double action from iron, zinc, or other metal sheets."—1 year.—(Secret.)—Dated 28th March, 1859.

61. Johann Stanitz, of Vienna, for "Making portmanteaux of sheet iron with double pasteboard and leather."—1 year.—(Public.) — Dated 28th March, 1859.

62. Leopold Liebscher, of Vienna, for "A machine for cutting pencils."—1 year.—(Public.)—Dated 28th March, 1859.

63. Adolph Mandl, of Ofen, for "Improvements in pockets and other slits of men's dresses."—1 year.—(Secret.)—Dated 28th March, 1859.

64. Pierre Amable de St. Simon Sicard, of Paris, represented by Georg Märkl, Vienna, for "A chemical mechanical process for converting pig iron into steel."—1 year.—(Public.)—Dated 28th March, 1859.

65. Anton Duke of Litta, Visconte Arese, of Milan, for "Improvements in apparatus for heating or drying buildings, workshops, &c., by means of hot air, and for drying yarns, wool, cotton, tissues, &c."—5 years.— (Secret.) — Dated 29th March, 1859.

66. Alois Bing, of Pesth, for "Improvements in the manufacture of durable men's and ladies' dresses."—1 year.—(Secret.)—Dated 29th March, 1859.

67. Julius von Mannstein, of Vienna, for "A two-wheeled carriage, in which the draught animal is placed between the two wheels."—1 year.—(Secret.)—Dated 29th March, 1859.

68. Franz Hirsch, of Vienna, for "Improvements in his composition for washing wool, whereby it may be used for cleaning other objects."—1 year.—(Public.)—Dated 29th March, 1859.

69. Franz Leumötzer, of Wimpassing, Lower Austria, for "A machine for making all kinds of gun-stocks." — 1 year. — (Secret.) — Dated 30th March, 1859.

70. Jacob Malenchini, of Milan, for "Improvements in the manufacture of mineral and metallic asphalt."—1 year.—(Secret.)—Dated 31st March, 1859.

71. August Lenz, of Vienna, for "A peculiar construction of forge hammers and other hammers."—2 years.—(Public.)—Dated 31st March, 1859.

72. Stephen Vidats, of Pesth, for "Improvements in ploughs of wrought iron with a wooden mould-board and moveable fore-train." — 2 years. — (Public.)—Dated 31st March, 1859.

73. Nathan Bichler, of Alt Ofen, for "Improvements in the manufacture of fabrics printed and dyed with blue colours."—1 year.—(Secret.)—Dated 31st March, 1859.

74. Felix Joseph Foncou, of Paris, represented by Georg Märkl, Vienna, for "A smoke-consuming apparatus applicable to the fire-places of fixed and moveable engines, locomotives, steam boats,&c."—1 year.—(Secret.)—Dated 31st March, 1859.

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2. Patents Prolonged.

1. Joseph Rohrbacher, for "Improvements in mail omnibuses."—9th year. — (Public.) —Dated 28th February, 1851.

2. Rudolph Weinhold, for "Improvements in the manufacture of pasteboard for covering houses."—6th year.—(Secret.) — Dated 26th February, 1854.

3. Mathias Schwell, for "Manufacture of several kinds of mineral colours from gold satinober."—3rd year.—(Secret.)—Dated 18th Februa ry, 1857

4. Joseph Rubesch, for "Smelting plutonic rock-stones into a paste fit for casting, rolling, or pressing."—3rd year.—(Secret.)—Dated 20th February, 1857.

5. Joachim Klatscher, for "Improvements in the manufacture of mens' dresses by using human hair instead of sewing silk."—2nd year.—(Secret.) —Dated 22nd February, 1858.

6. Stephan Peter Proust, for "An apparatus for oiling axles and other rotary machinery."—4th year.—(Public.)—Dated 6th March, 1856.

7. Alois Johann Metzger (Friedrich Schilling, assignee), for "New means of manufacturing boots and shoes."—8th year.—(Public.) — Dated 25th February, 1852.

8. Leopold Zoder, for "A peculiar mode of fixing all kinds of boilers, pans, and other fire-places."—5th year.—(Secret.)—Dated 27th February, 1855.

9. Joseph Mayer, for "Constructing of furniture so as to protect it from vermin."—3rd year.—(Secret.)—Dated 27th March, 1857.

10. Ernst Ziegler, for "A substitute for animal charcoal." — 2nd year. — (Secret.) — Dated 22nd February, 1858.

11. Joseph Ferstl von Förstenau (Joseph Boschan's Sons, assignees), for "Ungreasing and scouring wool."—2nd–4th year.—(Public.)—Dated 24th March, 1858.

12. Ignaz Schoffer, Ferdinand Lehner, and Julius Georg Ellenberger, for "Improvements in the manufacture of fire and waterproof fibrous substances."—5th year.—(Secret.)—Dated 28th February, 1855.

13. Carl Gustav Kern, for "Improvements in his statuary pasteboard."—4th year.—(Secret.)—Dated 15th March, 1856.

14. Carl Heing, for "Cleaning wool and waste wool in a closed sieve by means of metal sticks."—2nd and 3rd year.—(Secret.)—Dated 16th March, 1858.

15. Johann Baptist Mauss, for "Improvements in a method of extracting and fixing the aroma of all kinds of plants, fruit, &c., and for using the same for perfumery articles."—5th year.—(Secret.)—Dated 28th February, 1855.

16. Rudolph Mahler, for "Rendering men's dresses impervious to perspiration and must."—2nd year.—(Secret.)—Dated 15th March, 1858.

17. Franz Swaty and Carl Kirchhof, for "Improvements in their apparatus for preserving substances liable to be damaged by the influence of the atmospheric air."—4th year.—(Secret.)—Dated 1st March, 1856.

18. Anton Strobel, for "Improvements in meerschaum and composition pipes and mouth pieces."—Dated 4th year.—(Public.)—Dated 1st March, 1856.

19. August Klein, for "Improvements in portemonnaies, cigar-cases, and similar articles."—4th year.—(Secret.)—Dated 4th March, 1856.

20. Georg Schwab, for "Making windows, doors, skylights, show-windows, &c., of hollow forged iron tubes or of solid tubes."—4th year.—(Secret.)—Dated 31st March, 1856.

21. Wenzel and Franz Skriwan, for "Improvements in the manufacture of silk and felt hats."—3rd, 4th, and 5th year.—(Secret.)—Dated 25th March, 1857.

22. M. Rolans Peter Joseph Lescrue, for "An embroidering machine."—3rd year.—(Public.)—Dated 22nd April, 1857.

23. Anton von Sibrik, for "A mowing machine."—2nd year.—(Secret.)—Dated 9th March, 1858.

24. Friedrich Wiese, for "Improvements in the manufacture of kitchen vessels."—2nd year.—(Public.)—Dated 9th March, 1858.

25. J. A. Matthäus Chaufoux, for "A system of journals and boxes of axles and cylinders."—2nd year.—(Secret.)—Dated 23rd April, 1858.

26. Wilhelm Eisenmann, for "Improvements in fire-places."—5th year.—(Secret.)—Dated 18th March, 1855.

27. Franz Loret-Vermeersch, for "A mechanical hand-weaving loom."—3rd year.—(Public.)—Dated 4th March, 1857.

28. Bland William Croker, for "Construction of self-lubricating axle-journals of locomotives, tenders, railway carriages."—2nd—6th years.—(Public.)—Dated 8th April, 1858.

29. Angelo Felino Lue, for "A peculiar kind of rails for railways."—2nd year.—(Public.)—Dated 17th June, 1858.

30. Johann Wawra, for "Manufacture of umbrellas and parasols."—5th year.—(Secret.)—Dated 14th March, 1855.

31. Johann Giergel, for "Improvements in playing cards."—4th year.—(Secret.)—Dated 15th April, 1856.

32. Bernhard Schäffer and C. F. Budenberg, for "A new construction of manometers for measuring high and low pressure of steam, water, and air."—8th year.—(Public.)—Dated 22nd March, 1852.

33. Alois Johann Metzger, for "Grease for leather."—3rd year.—(Secret.)—Dated 8th June, 1857.

34. Johann Bertin, for "Improvements in the manufacture of silk and machine-made hats."—2nd year.—(Secret.)—Dated 19th May, 1858.

35. Joseph Pohlmann, for "So-called 'cosmetic liquid for the mouth.'"—5th–10th year.—(Secret.)—Dated 19th January, 1857.

36. Ignaz Martin Guggenberger, for "Improvements in constructing and preserving roads, streets, and railways."—3rd year.—(Secret.)—Dated 9th March, 1857.

37. Leon Pujol, for "A process for manufacturing and purifying water-gas."—3rd year.—(Public.)—Dated 10th March, 1857.

38. Florentin Garand, for "An apparatus in machines for transmitting and preserving motion."—3rd year.—(Public.)—Dated 29th March, 1857.

39. Johann Randnitz, for "So-called 'Pinabin vegetable pomatum.'"—2nd year.—(Secret.)—Dated 11th March, 1858.

40. Michael Lamarche, for "Improvements in tiles."—6th and 7th years.—(Secret.)—Dated 7th March, 1854.

41. Michael Lamarche, for "Improvements in his tiles, as patented 7th March, 1854."—5th and 6th years.—(Secret.)—Dated 9th June, 1855.

42. Ignaz Schoffer and Ferdinand Lehner, for "Refining fat substances, such as rape-oil, linseed-oil, salad-oil, liver-oil, &c., by means of a new substance."—4th year.—(Secret.)—Dated 25th March, 1856.

43. J. C. Stelzl, for "Blacking."—2nd year.—(Secret.)—Dated 11th March, 1858.

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3. Patents which have become Void.*

1. Carl Exter, for "Treatment of peat."—Dated 28th January, 1857.—Annulled 2nd March, 1859, in consequence of not being worked.

2. Franz Weiss (Peter Paul Fritsch, assignee), for "An oval drum washing machine."—Dated 26th November, 1855; expired 26th November, 1858.

3. Ferdinand Hallmann and Johann Swenoha, for "Converting Bramah locks of fireproof iron chests from rim-locks into slide locks."—Dated 2nd December, 1857; expired 2nd December, 1858.

4. Anton Ignaz Krebs, for "Combining knives or other edge tools with pencil cutters."—Dated 26th December, 1857; expired 26th December, 1858.

5. Max Krauss, for "Improvements in fastening ladies' dresses."—Dated 5th September, 1853: expired 5th September, 1858.

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* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

6. Gustav Hirsch, for "Improvements in metal catch-springs with metal cylinders."—Dated 7th September, 1853; expired 7th September, 1858.

7. J. F. H. Hemberger, for "Improvements in the construction of looms for obtaining various and peculiar kinds of fabrics."—Dated 12th September, 1853; expired 12th September, 1858.

8. Anton Wedl and Leopold Müller, for "A process for printing woven fabrics by the lithochromic process, and of obtaining lithochromic prints on wood, leather, and sheet-iron."—Dated 29th September, 1853; expired 29th September, 1858.

9. Franz Lengzel, Johann Weiss, and M. Lobmayer, for "Economical kitchen ranges."—Dated 5th September, 1855; expired 5th September, 1858.

10. Wenzel Saidan, for "Improvements in the manufacture of seals of names."—Dated 29th September, 1855; expired 29th September, 1858.

11. Ludwig Rappacioli, for "A new process for manufacturing mirrors."—Dated 30th September, 1855; expired 30th September, 1858.

12. Gustav Fritsche, for "A peculiar mode of decomposing kitchen salt for the manufacture of soda, and chemicals related thereto."—Dated 17th September, 1856; expired 17th September, 1858.

13. Johann Baptist de Lorenzi, for "Improvements in the phonochromic system of organs."—Dated 18th September, 1856; expired 18th September, 1858.

14. Arnaud and Co., for "A rotary apparatus worked by steam, or any other fluid."—Dated 20th September, 1856; expired 20th September, 1858.

15. Alexander Lindner, for "Improvements in screw-breaks of railway carriages."—Dated 24th September, 1856; expired 24th September, 1858.

16. Peter Dugué, for "A root-cutter."—Dated 1st September, 1857; expired 1st September, 1858.

17. Friedrich Russ, for "Improvements in oil reservoirs of oil lamps."—Dated 2nd September, 1857; expired 2nd September, 1858.

18. Friedrich Russ, for "Improvements in burners of oil lamps."—Dated 2nd September, 1857; expired 2nd September, 1858.

19. Peter Tiget, for "A process for burning bricks and pottery by means of a clay substance."—Dated 2nd September, 1857; expired 2nd September, 1858.

20. C. Stengle and P. Catraro, for "A kiln for obtaining fat and hydraulic lime."—Dated 2nd September, 1857; expired 2nd September, 1858.

21. Salomon Wallerstein, for "A machine for taking self-measurement for dresses."—Dated 2nd September, 1857; expired 2nd September, 1858.

22. Georg Gleischner, for "Improvements in Krems vine scissors."—Dated 3rd September, 1857; expired 3rd September, 1858.

23. Jacob Lemberger, for "A peculiar mode of combining two kinds of silk fabrics for making parasols."—Dated 3rd September, 1857; expired 3rd September, 1858.

24. Schmitz and Marx, for "Improvements in mountings of cotton cards."—Dated 3rd September, 1857; expired 3rd September, 1858.

25. Anton Bartholomäus Kleinert, for "Improvements in travelling-beds, furniture, and travelling-chairs of wood, iron, and hollow wrought iron, which may be taken to pieces."—Dated 16th September, 1857; expired 16th September, 1858.

26. Joseph Köhrer, for "Improvements in making silk hats."—Dated 16th September, 1857; expired 16th September, 1858.

27. Ludwig Franz Devisne, for "Revolving pistols with forced balls."—Dated 20th September, 1857; expired 20th September, 1858.

28. Andreas Ignaz Kunowitsch, for "A folding lighting apparatus, combined with a cigar cutter."—Dated 22nd September, 1857; expired 22nd September, 1858.

29. Saloman Fischer, for "Improvements in the interior construction of steam engines and water mills for grinding corn."—Dated 24th September, 1857; expired 24th September, 1858.

30. Julius Hiller, for "Applying caoutchouc valves to steam and water pipes."—Dated 28th September, 1857; expired 28th September, 1858.

31. Heinrich Servait, for "A silver colour for cleaning silver and other metal objects."—Dated 28th September, 1857; expired 28th September, 1858.

32. Theophil Weisse, for "Improvements in broad cast sowing machines."—Dated 30th September, 1857; expired 30th September, 1858.

33. Paul Toth, for "A perpetuum mobile obtained by turbines with a vacuum for working mills, workshops, &c."—Dated 30th September, 1857; expired 30th September, 1858.

34. Carl Zwilling, for "Manufacture of durable waterproof articles of leather, wood, linen, and other substances."—Dated 23rd February, 1857; annulled 28th January, 1859, in consequence of not being worked.

35. Joseph Adensamer, for "A quick motion in ribbon looms."—Dated 12th October, 1852; expired 12th October, 1858.

36. Louis Leo Wolf, for "Improvements in portable universal mills with a peculiar grinding apparatus and eccentric motion."—Dated 30th October, 1856; expired 30th October, 1858.

37. Alois Egger, for "A new kind of grease for lubricating carriages, machines and works."—Dated 4th October, 1847; expired 8th October, 1858.

38. Johann Georg Bodmer, for "Improvements in locomotives and railway carriages whereby they may travel on curves and carry greater weights."—Dated 31st October, 1850; expired 31st October, 1858.

39. JOHANN GEORG BODMER, for "Improvements in regulators of steam engines, hydraulic wheels, turbines, &c."—Dated 31st October, 1850; expired 31st October, 1858.

40. JOHN PIERREPONT HUMASTON, for "Improvements in apparatus used in the composition and transmission of telegraphic messages."—Dated 9th November, 1856; expired 9th November, 1858.

41. STEPHAN STERLINGREE, for "Improvements in expeditious tanning."—Dated 9th November, 1856; expired 9th November, 1858.

42. JOHN WALLACE DUNCAN, for "Improvements in apparatus for generating steam."—Dated 17th November, 1856; expired 17th November, 1858.

43. PETER PHILIPP CÖLESTIN BARRAT and JOHANN BAPTIST BARRAT, for "A steam engine for breaking up and ploughing lands."—Dated 10th December, 1856; expired 10th December, 1858.

44. AUGUSTIN VRAIN ADRIEN LAUGÈRE, for "An horizontal windmill."—Dated 15th December, 1857; expired 15th December, 1858.

45. LOUIS BEANCHÉ, for "A mechanical apparatus for the expeditious manufacture of cigars."—Dated 24th December, 1856; expired 24th December, 1858.

46. JULIUS HIPPOLYT CLEMENT, for "A break for stopping the rotary motion of all kinds of wheels and cylindrical bodies."—Dated 2nd January, 1858; expired 2nd January, 1859.

47. GERMAIN CANOUIL, for "Improvements in the composition of friction matches."—Dated 13th January, 1858; expired 13th January, 1859.

48. CARL WILHELM SIEMENS, for "A peculiar steam engine, in which the working cylinders utilize repeatedly the same steam by means of reciprocal motion, with a third cylinder (regenerator)."—Dated 6th November, 1855; expired 6th November, 1858.

49. M. ROLANS SAINTARD, for "A peculiar break for railway carriages and common carriages."—Dated 2nd October, 1857; expired 2nd October, 1858.

50. JOHANN DUPONY-LANGA, for "A composition for keeping varnished leather in a smooth and brilliant state."—Dated 1st November, 1857; expired 1st November, 1858.

51. JÉRÔME NAPOLEON MOURET, for "An apparatus for establishing a close connection between the different carriages of a railway train, whereby the tail motion is obviated."—Dated 1st December, 1857; expired 1st December, 1858.

52. D. BRIX, for "A machine for making drains with grooved ends."—Dated 30th November, 1857; expired 30th November, 1858.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 31st May, 1859, and each bearing that date.

No. 24,184. GEO. M. ALSOP, of Philadelphia, Pa., for an "Improvement in air springs for railroad cars."

"What I claim, 1st, is the method or arrangement of enclosing an elastic air-tight vessel filled with air, in a box or chamber with a flexible waterproof cover, or diaphragm, and surrounding the air vessel with water, or some other suitable fluid, substantially as herein-before described, and for the purpose set forth. 2d, I claim the arrangement of the convex steel plates B^{11}, which are divided into radiating leaves, or segments, connected together at the centre, whose outer edges or periphery rest upon and slide on the metal ring or plate *b*, and in the recess in the bottom of the top A^1, the whole being arranged as herein-before described, for the purpose of forming a flexible metallic support or covering to the diaphragm, to prevent its being strained or ruptured, substantially as set forth. 3d, I claim the combination and arrangement of the piston D, with its elastic cushion E, the flexible steel plate or plates B^{11}, the metal plate or rings *b*, *b*, and the diaphragm B, B^1, the whole being arranged and combined, substantially as described, and for the purpose set forth."

No. 24,185. C. F. ANDERSON, of Charlestown, N.H., for an "Improvement in seed planters."

"I claim the ratchet-shaped projections *d*, *e*, in the hub H of wheel B, and on the disk K of the tube J, in connection with the tube L, provided with the spiral and straight grooves *f*, *g*, in which the projection *h* of the tube J is fitted. The tube L having the side lever M attached, and also the catch *i*, the whole being combined and arranged to operate, as and for the purpose set forth."

No. 24,186. ENSIGN BAKER, of Fredonia, N. Y., for an "Improvement in straw cutters."

"What I do claim is, 1st, the employment or use of the leger knife J, provided with the hook a^*, actuated by the cam F, and used in connection with the knives E, E, attached to the wheel D, and provided with the hooks G, G, to operate substantially as and for the purpose herein set forth. 2d, the arrangement of the crank H, spring L, with rack *d* attached, and the ratchet *c*, on the shaft of the feed roller K, substantially as shown, to feed the stuff intermittently to the knives, as described."

No. 24,187. JOHN A. BAWSEL, of Powhatan Court House, Va., for an "Improvement in tobacco presses."

"I claim, 1st, the use of the follower B^1, fitting into the groove of the opposite roller, substantially as set forth. 2, I claim the springs S, as constructed and operated for guiding the tobacco and straightening the leaves as they pass between the rollers, substantially as described. 3, I claim the use of the treadle H, in combination with the springs S, and with the rollers B and C, operating substantially as described, for separating the springs S, and also for separating the rollers, as set forth. 4, I claim the oil cup O and roller V, in connection with grove *r*, for oiling the groove and the tobacco, substantially as described."

No. 24,188. ALBERT BETTELEY, of Boston, Mass., for an "Improvement in elevators for hoisting goods in warehouses, &c."

"I claim so arranging and combining a rider (*t*), with a brake, by the means described, or their equivalents, as to

operate upon a driven pulley to check or prevent its rotation whenever the driving belt breaks, or is removed."

No. 24,189. Joseph D. Billings, of Rutland, Vt., for an "Improvement in frieght cars."

"I claim placing a metal shoe, single, or continuous, between the studs or sheathing boards and sills of railroad cars, for excluding the water and thereby preventing the rapid decay of the same, substantially as herein-above set forth."

No. 24,190. John W. Brewster, of Stamford, N.Y., for an "Improved wrench."

"I claim as a new article of manufacture, a wrench, having a six-sided handle A, stationary jaw B, and sliding jaw C, with apertures (c) of the precise form shown, and the article being otherwise made as herein set forth."

No. 24,191. Jay H. Brown, of Grand Ledge, Mich., for an "Improved machine for punching metal."

"But what I do claim is, the application and use of the bars I, I, in combination with the lever L, punching bar E, frusto-conical rollers *o*, *o*, *o*, *o*, &c., rod G, and spiral (or equivalent) spring *s*, for the purposes specified, the whole being constructed and arranged substantially in the manner as herein described and set forth."

No. 24,192. Frederick Bucher, of Columbia, Pa., for an "Improvement in stoves."

"What I claim is, in combination with the fire cylinder the double radiators *h*, each enclosing an interior chamber and register, so that the draft may be direct or checked at pleasure in its passage through the stove, by which means I obtain much radiating surface and economize much fuel, the whole being arranged substantially as herein represented."

No. 24,193. John P. Carr, of Mattapoisett, Mass., for an "Improved pump gearing."

"But what I do claim, and to what I do confine myself, is, the device, as herein set forth and described, for operating pumps on board of ships and in other places, where said invention may be useful."

No. 24,194. John Clackson, of Milford, Pa., for an "Improved joiners' clamp."

"I claim the clamp formed of the bar A, with the jaws D, F, constructed, arranged, and fitted on it, substantially as described, to form a new and improved article of manufacture."

No. 24,195. E. P. Clark, of Holyoke, Mass., for an "Improvement in composition for pencils."

"I claim the composition for pencils for indelible writing, made by combining nitrate of silver with the several other ingredients herein specified, substantially in the manner, and in about the proportions herein set forth."

No. 24,196. Wm. Clemson, of East Woburn, Mass., for an "Improved machine for grinding saws."

"I claim the elliptical bearings *a*, *a*, lever L, and double gearing F, F, and G, G, in combination with the adjustable bearing plates D, D, when all are arranged substantially as and for the purposes herein-above specified."

No. 24,197. Jacob Closs, of Decatur, Ind., for an "Improved churn."

"I claim the use of the screw dashers D, E, constructed and operated as set forth, in connection with the wings F, F, as specified."

No. 24,198. T. B. Coursey, of Fredrica, Del., for an "Improvement in corn crushers."

"I claim the employment or use of the serrated flanches F, F, placed obliquely and eccentrically on the shaft B, in combination with the crushing heads C, D, and shell A, substantially as and for the purpose set forth."

No. 24,199. E. Hall Covel, of New York, N. Y, for an "Improvement in gas regulators."

"What I claim is, 1st, the combining of the rotary pump or air forcer with the air receiver and its fluid valve arrangements, in the manner herein set forth, whereby the one controls the action of the other, and through their joint action the charging apparatus is controlled, substantially as described. 2d, I claim connecting the commingling chamber of the charging apparatus with the air receiver, for the purposes set forth."

No. 24,200. E. Hall Covel, of New York, N. Y., for an "Improvement in hydro-carbon vapor apparatus."

"What I claim is, 1st, constructing the apparatus for th e purposes herein set forth, of detachable parts or chambers, substantially as described. 2d, I claim the arrangement of the feed pipes or tubes and outlet pipes, whereby I am enabled to pass in the material to any one of the chambers, or to let out material, and to examine the interior while the apparatus is in operation and the process of charging going on, as herein set forth."

No. 24,201. G. F. Decker, of Scranton, Pa., for an "Improvement in railroad car trucks."

"I claim the axles B of a track, in separate or inde pendent frames *b*, *b*, attached to the bed piece *a*, as shown and connected by a spring or flexible plate *e*, and used in connection with the spring C, arranged substantially as and for the purpose set forth."

No. 24,202. Edwd. J. Durant, of Lebanon, N.H., for an "Improvement in hand lever."

"I claim combining the forked shaft *a*, with the sliding head piece *b*, the intermediate lever *c*, and the hand lever *d*, in such a manner as to form a compound leverage car mover, that can be operated substantially as herein set, forth."

No. 24,203. Celestin Eastburn, of Spencer County, Ky., for an "Improvement in cultivators."

"What I claim is the arrangement of the plows D, wheel F block J, spring I, and rake H, as set forth and described, for the purposes specified."

No. 24,204. Frederick Ebeling, of New York, N. Y., for an "Improvement in machinery for crushing and mixing sugar."

"What I claim is, first, the reciprocating plunger *p*, acting on the sugar loaf, in combination with the revolving cutter head *e*, in the manner and for the purposes substantially as specified. Second, I claim the support *r*, and latch *s*, actuated as set forth, and acting to drop one loaf of sugar at a time from the hopper, so as to be pressed forward by the plunger *p*, as set forth. Third, I claim the sliding bar c^1, fitted with the incline 15, in combination with the pins 10, on the wheel *m*, and the weight o^2, or its equivalent, for drawing back the plungers *p*, *p*, in the manner and for the purposes specified. Fourth, I claim the revolving mixers *y*, y^1, constructed with slats *z*, *z*, between the heads, in the manner and for the purposes set forth."

No. 24,205. Jeremiah Essex, of North Bennington, Vt., for an "Improvement in machines for drying fibrous substances."

"What I claim is the manner herein specified, of guiding and ascending and descending endless apron by the pulley *d*, *d*, or their equivalents, acting on the edges of said endless apron, in the manner and for the purposes specified."

No. 24,206. Merrill A. Furbush and Geo. Crompton, of Worcester, Mass., for an "Improvement in looms for weaving plaids, &c."

"What we claim, is, the employment of two sets of ratchet wheels and appendages, each set consisting of reversed ratchets, substantially as described, in combination with two sets of cams and two series of shuttle boxes, substantially as and for the purpose specified. And we also claim the two sets of reversible ratchets and appendages, the two sets of cams, and two series of shuttle boxes, substantially as described, in combination with one pattern chain of cylinder, in manner substantially as and for the purpose specified."

No. 24,207. Geo. Geer, of Uniontown, Ill., for an "Improved washing machine."

"I claim a washing machine, provided with a lever I, cylinder of rollers F, clutch (*j*), endless belt B, adjustable levers C, C, made as set forth, and otherwise constructed as shown, so that by shifting the lever I the motion of the belt will cease and hold the clothes at rest beneath the rotating cylinder of rollers F, and so that the belt B may be loosened or tightened, when desired, by shifting the levers C, C, as herein specified."

No. 24,208. Jacob Gove, of Milford, N. H., for an "Improvement in tanning leather."

"What I claim is, giving to the liquor or tanning fluid in the vat, a rapid motion, commencing across the bottom of the vat, and under the suspended hides, for the purpose set forth."

No. 24,209. John Hassell, jr., of Newark, N. J., for an "Improvement in construction of pins for securing artifical teeth."

"What I claim is the split pin, used double, or single, half round, or flat, for the purposes set forth, and substantially as herein described."

No. 24,210. Henry Havell, of Newark, N. J., for an "Improved meat cutter."

"What I claim as my invention, is, 1st, the hook-pointed rotary knives, E, *e*, arranged in the described relation to the hopper F, for the purpose explained. 2nd, the combined arrangement of the stationary curved knives C, C¹, latitudinal grooves *d*, and rotary knives E, substantially as and for the purposes set forth."

No. 24,211. Robt. W. Hazlett and John H. Hobbs, of Wheeling, Va., for an "Improvement in retorts for distilling coal oils."

"We claim, 1st, constructing the horizontal retort with a pan or flat-shaped base A, and inclined upper sides or top B, B, and with open conduits or gutters *b*, *b*, running from end to end of the retort, and arranged on the inner side thereof, and set inclining and emptying into the neck of the retort the whole for united operation, substantially as and for the purpose herein set forth. 2nd, the drawer or charger D, when open at top, and in no way or at any time attached as a fixture to the retort, and yet serving during the distilling process as a part of the generating chamber, and being kept elevated above the bottom of the generating chamber, and allowed to slide in and out without the necessity of removing or disconnecting any portions of the retort or generator, substantially as and for the purpose herein set forth."

No. 24,212. J. E. Holmes, of Newark, O., for an "Improvement in retorts for distilling oil from coal."

"I claim the employment in a retort for distilling oil from coal of a central perforated tube P, suspended from the mouthpiece A¹, an open space being also left below the bottom of tube P, for the removal of the coke residuum through the mouth C, substantially as herein shown and described."

No. 24,213. Henry Hooton, of Boston, Mass., and Jos. G. Bicknell, of Cambridgeport, Mass., for an "Improvement in wheel jack for carriages, &c."

"We claim, first, the combination of the hollow box *a* with the lever D, the front jointed pawl C, the back pawl C, and the notched shaft B, operating substantially as described. Second, the combination of the button E, the spring F, the catch G, the button H, and the jointed connecting rod K, operating substantially as described."

No. 24,214. Mark Howland, of Waterbury, Conn., for an "Improved door latch."

"I claim the within-specified relative arrangement for united operation of the latch C with female screw threaded socket *s*, latch guide plate *u*, with square opening *v*, latch shank or rod B, with male screw thread *t* on its front end, stationary slotted guide case *A*, *b*, *a*, *a*, shoulder *w*, on the latch shank or rod B, spiral spring D, sliding connecting link or plate E, with cross heads *d*, *d*, and double-acting knob tumbler F, *c*, *c*, all for the purpose herein set forth."

No. 24,215. Robt. W. Huston, of Calais, Maine, for an "Improved mode of securing corks in bottles."

"I claim the within-described fastener, which consists of the metallic pieces 3, 3, which are hinged on a wire secured below the enlargement on the bottle neck, and which are provided with teeth 5, 5, 5, with the strips 6, 6, and with the wire 2, and clasp 11, the several parts being arranged substantially in the manner and for the purpose herein specified."

No. 24,216. A. B. Irving, of Terre Haute, Ind., for an "Improvement in sewing machines."

"What I claim is, the arrangement relatively to one another of the following parts, to wit: the upper and lower feeding arms D, D¹, upper and lower rock shafts E, E¹, actuating cam C, combining and regulating projection J, and slotted adjustable spring holding down bar I, for the purposes set forth."

No. 24,217. Wm. G. W. Jaeger, of Baltimore, Md., for an "Improvement in retorts for distilling oil from coal."

"1st, what I claim is, the side channels *d*, *d*, and the trap openings or discharge pipes *e*, *e*, for the heavy oils, as set forth. 2d, in combination with said side channels I claim the double inclination or arched form of the bottom of the retort. 3d, in combination with the coal oil retort, constructed substantially as above set forth, I claim the opening *g*, for the purposes set forth."

No. 24,218. Mathaus Kaefer, of New York, N. Y., for an "Improvement in machinery for transmitting motion."

"But what I do claim is, the arrangement of the carriage C, and fly wheel E, in such relation to the crank F that the weight of the carriage and of the fly wheel acts on the crank, substantially in the manner herein specified."

No. 24,219. Geo. Lindley, of Chicago, Ill., for an "Improvement in field rollers."

"I claim the vibrating scrapers, constructed and arranged so that the driver can operate them, to clear the rollers of the earth adhering to them when the machine is drawn in either direction, substantially as described. I claim constructing and arranging the platform, so that the ends which support it may vibrate freely under it, substantially as described, when the rollers pass over uneven ground."

No. 24,220. Tindal A. Madison, of Terre Haute, Ind., for an "Improvement in the mode of connecting and disconnecting machinery by means of a belt."

"I claim, 1st, the combination of the shifting bar K with the belt D, D, D, the driving pulley A, and the series of dead rollers H, H, H, or their equivalents, for the purpose described. 2d, the combination of the shifting bar K, and box M, M, with the gate or pawl N, or their equivalents, for the purposes described. 3d, the guide plate S, with its slot U, U, in combination with the friction roller *h*, or their equivalents, for the purpose of giving both forward and lateral motion to the belt D, D, D, when moved from a state of rest, as described. 4th, the series of dead rollers H, H, H, for the purposes and arranged in the manner set forth. 5th, the lever J, in combination with the slots *d* and *e*, the stud *f*, and connecting rod R, for the purpose of operating the gate or pawl N, in the manner described."

No. 24,221. Thos. J. Mayall, of Roxbury, Mass., for an "Improved water-tight sink."

"What I claim is, the production as a new article of manufacture of water-tight sinks, formed from vulcanized india rubber or gutta percha, substantially in the manner and for the purposes above set forth."

No. 24,222. Chas. McBurney, of Roxbury Mass., for an "Improved suction hose."

"What I claim is, the rings B, operating in the manner substantially as set forth."

No. 24,223. W. H. McClintock, of Frankfort, Ohio, for an "Improved churn."

"What I claim as my invention is, the employment of the within-specified peculiarly-constructed circularly-vibrating suction and force pump, in combinatian with a churn, constructed with a perforated partition, substantially as and for the purpose set forth."

No. 24,224. Robt. McKenna, of Rossville, Tenn., for an "Improved device for operating the index of time registers."

"What I claim is, the moving of the pencil, in the manner described."

No. 24,225. Thos. E. McNeill, of Philadelphia, Pa., for an "Improvement in seats and couches for railway cars."

"I claim, first, the end frame D of the seat, with its slotted top, and the slotted plate secured to the side of the car, in combination with the back F, and its pins or bolts, when the several parts are adapted to and arranged in respect

to each other, substantially as set forth. Second, the arms *d*, so hinged to the inside of the end frame as to be folded down under the seat during the day, and elevated so as to form supports for the couches during the night, in the manner specified. Third, the vertical frames N, hinged to the side of the car, and furnished with ledges to support two couches. Fourth, the board R, its rods *p*, and the hangers *n*, when arranged as and for the purpose herein set forth."

No. 24,226. JOHN MCPHERSON, of Pennington, N. J., for an "Improvement in harvesting machines."

"What I claim as my invention is, 1st, the curved slatted flexible apron K, when constructed in the manner and for the purposes set forth. 2nd, the combination of the endless apron I, with the curved slatted flexible apron K; the whole being constructed and arranged in the manner and for the purposes set forth."

No. 24,227. REUBEN M. MELTON, of Criglersville, Va., for an "Improvement in cultivators."

"What I claim therein, as new, is, first, the combination of the adjustable links with the adjustable slide, arranged substantially as described, for the purpose of adjusting the distance between the ploughs. Second, in combination with the curved plough beam, I claim the coulter constructed and arranged substantially as described, whereby the draught of the side ploughs is regulated by sliding the coulter on the beam, and firm support given to the coulter, in passing through compact soil."

No. 24,228. JAMES R. MOCK, of Elizabethtown, Ky., for an "Improvement in lock for repeating fire-arms."

"I claim the use of the coiled spring F, in combination with the sliding lock, catch No. 6, the catch spring No. 7, and grooved barrel, and grooved breech pin, substantially as described."

No. 24,229. RICHD. MONTGOMERY, of New York, N.Y., for an "Improvement in manufacture of corrugated beams."

"What I claim, is, the roller A, with its peculiarly-formed projections and recesses, in combination with the roller B, with its peculiarly formed projections and recesses, arranged and operating in relation to each other, substantially as and for the purposes set forth. I also claim the rollers A and B in combination with the former C, said parts being constructed, arranged, and operating in relation to each other substantially as and for the purposes described."

No. 24,230. MORDECAI R. MOORE, of Philadelphia, Pa., for an "Improvement in apparatus for seasoning lumber."

"What I claim, is, the combined arrangement of the track rails C and C^1, or their equivalents, with a steaming and drying chamber or vessel A, fitted with steam pipes and stop-cocks or valves substantially as described, so as to operate therewith substantially in the manner and for the purposes specified."

No. 24,231. D. J. OWEN, of Springville, Lynn, Pa., for an "Improved broom."

"I claim as an improved article of manufacture, a broom provided with a leather bag A, spring C, and otherwise made as herein shown and described."

No. 24,232. GEO. W. PARKER, of Fitzwilliam, N.H., for an "Improvement in cross cut sawing machines."

"I claim the cross head and the several parts attached to it, whether arranged as shown in figures 1 and 2, or as in figure 3, together with the piece X, or its equivalent, to work the arms V and N, to raise the saw and the handle *h*, to hold the saw when raised."

No. 24,233. JAMES ROY PARKER, of Sing Sing, N.Y., for an "Improved churn."

"What I claim, is, the combination of the rotating faces of the disk C, with the stationary faces B, B, in the manner and for the purposes set forth."

No. 24,234. JOHN F. PEABODY, of Salem, Mass., for an "Improvement in chairs for railways."

"What I claim, is, my improvement thereon, or the arrangement and application of rail bearers *b*, *b*, with respect to the elastic bearing E, its cap plate F, the base plate *a*, and under the rails A, B, of the railway chair, substantially as described, and particularly with the elastic bearing and cap plate arranged and protected by a recess essentially as explained."

No. 24,235. ALEXR. E. PIRKEY, of Bradford, Ill., for an "Improvement in mills."

"What I claim, is, the within described arrangement of the adjustable slides *d*, and the corner pieces *b*, to operate in combination with the piston B, which receives its motion by means of a lever E, and wheels H and I, substantially in the manner and for the purpose specified."

No. 24,236. ALBERT P. PITKIN, of Hartford, Conn., for an "Improvement in screw dies."

"What I claim, is, making a screw plate A, with both top and bottom parts P, P^1, which hold the die N, cast or made on to the screw plate A, in the manner and for the purpose described. I further claim the making the inlet for the introduction of the die N into its chamber between the parts P, P^1, through the outside edge of the screw plate A, as and for the purpose described."

No. 24,237. CHRISTIAN REIF, of Hartleton, Lewis Township, Pa., for an "Improvement in clover hullers."

"I claim the projections at different angles on the concave, in combination with the spiral rows of projections on the cylinder substantially as and for the purpose set forth."

No. 24,238. EZRA RIPLEY, of Troy, N.Y., for an "Improved nut cracker."

"What I claim, is, the above described nut cracker or implement, consisting essentially of the fixed jaw A, with its standard *e*, the movable jaw B, with its slide *g*, and the eccentric or cam C, with its handle *d*, and flange *k*, all constructed and arranged in combination for conjoint operation substantially as herein described."

No. 24,239. JOSEPH ROSENCRANS, of Avoca, N.Y., for an "Improvement in self-acting wagon brake."

"What I claim, is, the arrangement of means herein set forth for operating the brake by the holding back of the team."

No. 24,240. ANDW. C. ROSS, of Almont, Mich., for an "Improved sawing machine for resawing boards."

"What I claim is, 1st, the arrangement of circular saw K, stationary divider L, in connection with a permanent horizontal bed, in resawing machines, for the purposes set forth. 2nd, the bell-shaped flanges or sockets *z*, of the saws, constructed and employed substantially as and for the purpose herein described."

No. 24,241. GEO. H. RUSSELL, of Baltimore, Md., for an "Improvement in stoves."

"What I claim is, the combination with the inner fire drum A of the cold air base D, vertical side pipes E, E^1, and elbow *e*, with their dampers *g*, *g*, cylindrical cover or top drum F, with its chambers *f*, f^1, f^2, f^3, and connecting tube f^4, horizontal air space G, and outlet *i*, outer air drums I, K, passage *j*, *j*, front vertical register pipes J, J, foot warmer connecting pipes *k*, *k*, and foot warmer L, with its register *l*, ventilating registers R, R, double smoke pipes N, *n*, P, *p*, with dampers set as described, and divided outer smoke drum O, with its passage or passages, substantially as and for the purposes set forth."

No. 24,242. ALBERT M. SMITH, of New York, N.Y., for an "Improved carpet fastener."

"What I claim is, the combination and arrangement of the point '*a*,' lips '*b*, *b*,' slot '*c*,' bearing '*d*,' lips '*e*, *e*,' point '*f*,' hook '*g*,' lips '*h*, *h*,' bearings '*i*, *i*,' substantially as and for the purpose herein specified."

No. 24,243. CHAS. E. SMITH, of Philadelphia, Pa., for an "Improvement in manufacture of belting."

"What I claim is, the manufacture of continuous belting or bands, by uniting pieces of band iron, by lapping and riveting two beveled ends, so as to produce a rhomboidal joint, in the manner and for the purpose substantially as described."

No. 24,244. GEO. STEPHENSON, of Northfield, Ind., for an "Improvement in cordage machinery."

"What I claim is, the employment of a series of movable bearing cross bars (*i*), with side pivots or gudgeons (*k*), the

ends of the cross bars being supported by longitudinal slots or grooves (*h*), in the flyer bars (*a*), and connected to each other by elastic straps or thongs (*l*), whereby the cross bars are made to press gently upon the ends of the spools (which are mounted upon the side pivots *k*), to resist, slightly, the rotary motion thereof, and also admit of the occasional removal of one or more of the spools, without disarranging others of the series, the cross bars, spools, and elastic straps, being arranged in the manner and for the purpose herein described."

No. 24,245. LEVI STEVENS, of Fitchburgh, Mass., for an "Improvement in axle box for railroad cars."

"What I claim is, a box made of anti-friction metal, and backed with a casing of bronze, the bronze passing through the anti-friction metal, and resting upon the axle, for the purpose described."

No. 24,246. JOHN SUTTON, of New York, N. Y., assignor to himself and De Witt C. Van Tuyl, of same place, for an "Improvement in condensing steam engines."

"I claim, 1st, the arrangement of the combined air pump and condenser piston K, to act independently of the walking beam of the engine, so that a portion of the exhaust steam, while the piston F is just completing and commencing a stroke, shall impart a full stroke to the piston K, as herein shown and described. 2d, the arrangement and combination of the forked levers Q, S, the crank E, lever R, and piston rod K^1, so that by the action of the piston K, the crank E, will be assisted in passing the dead points, but during other portions of the crank movement, the parts above named will be disconnected from the crank E, all substantially as herein shown and described."

No. 24,247. GEO. C. TAFT, of Worcester, Mass., for an "Improvement in the manufacture of wrenches."

"What I claim is, the above described peculiar mode of constructing the head and shank of screw wrenches, viz.: by first forming or constructing the head *c* and shank or bar *a* separately, as shown and described, and then uniting the head and shank after the shank *a* has been inserted into the depression *d*, first made in the head *c* by welding, the whole operation being substantially as above described, and for the purposes set forth."

No. 24,248. THOS. H. TATLOW, jr., of Palmyra, Mo., for an "Improvement in seeding machines."

"I claim, 1st, the employment or use of the covering hoe G, operated from the supporting wheel C, through the medium of the rollers *g*, *g*, bar J, and the bars F, I, connected by the rod H, substantially as described. 2nd, the share O, provided with the curved bars j^1, j^1, in connection with the shares M, N, and hoe G, the whole being arranged for joint operation, substantially as and for the purpose set forth."

No. 24,249. JOSHUA W. TAYLOR, of Philadelphia, Pa., for an "Improvement in corn mills."

"What I claim is, the application and arrangement of the oblique projections *c* to the shell or concave *a*, operating in the manner and for the purpose set forth and specified."

No. 24,250. JOSEPH W. THORP, of Hillsboro', N.H., for an "Improvement in tailors' pressing machine."

"I claim raising the heater from the bottom of the hollow goose, either by means of the projections formed on the bottom of the heater, or by adjusting screws, or their equivalents."

No. 24,251. SIMON H. WALKER, of Somerville, Tenn., for an "Improvement in bee hives."

"What I claim is, the moth decoy entrances *c*, *f*, provided with the jutting lips or ledges *b*, *d*, and arranged just within the bee entrance *a*, across its entire extent, both above and below, substantially in the manner and for the purpose herein specified. I also claim the construction and arrangement of the cross bars *r*, *r*, attached to a supporting cross-piece P, and with open spaces *s*, *s*, around their ends, substantially in the manner and for the purpose herein set forth."

No. 24,252. JOHN WAUGH, of Elmira, N.Y., for an "Improved boring machine."

"What I claim is, the arrangement of those mechanical appliances in a peculiar manner, for a new and useful purpose, as substantially set forth."

No. 24,253. DAVID WHEELER, of Fairfield, Conn., and ISAAC LITTLE, of Bridgeport, Conn., for an "Improvement in gas regulators."

"What we claim is, the combination of a self-acting discharge pipe, or siphon S, T, with the chamber (*c*) of a gas regulator, substantially as and for the purposes herein shown and described."

No. 24,254. E. D. WILLIAMS, of Philadelphia, Pa., for an "Improvement in friction spring for supporting window sash."

"What I claim is, providing with friction springs having sharpened projections or spurs, for cutting their own grooves, substantially as above set forth."

No. 24,255. THOS. S. WILLIAMS, of Enterprise, Miss., for an "Improved musquito bar."

"What I claim is, the folding musquito net, or bar, constructed substantially as described."

No. 24,256. SAMSON WOLF, of Vicksburgh, Miss., for an "Improvement in cotton and hay presses."

"What I claim is, the combination of a conical spiral wheel or pinion, with an inclined rack, when the latter is set oblique to the axis of the pinion, substantially in the manner and for the purpose herein described."

No. 24,257. THEODORE T. WOODRUFF, of Philadelphia, Pa., for an "Improvement in seats and couches for railroad cars."

"What I claim is, the combination and arrangement of the two frames with each other and with the supports therefor, connected with each compartment of a car; the said frame is, when spread out forming couches for two persons, on the same level with the seats, and when transformed, one of the said frames forming seats and the other the back for such seats, substantially as described. I also claim connecting the frame which forms the seats with the frame which forms the backs by means of links connected with one of the said frames by means of hinged joints, and with the other of the said frames by means of sliding hinged joints, substantially as and for the purpose specified. I also claim, in combination with the frame for the main seats, the auxilliary seats, which slide under the frame for the main seats, substantially as and for the purpose described. And I also claim the frame for an elevated couch, when combined with the car by means of sliding hinged joints, substantially as and for the purpose specified. I also claim, in combination with the elevated couch next to the side of the car, or the equivalent therefor, the front elevated couch, so connected with the car, substantially as described, as to admit of being let down to form part of a double couch, and thrown up towards the roof of the car when not wanted as a couch, as set forth."

No. 24,258. LESTER L. BOND, of Chicago, Ill., assignor to himself and Giles B. Williams, of New York, N. Y., for an "Improvement in self-acting presses."

"But what I claim is, first, the arrangement for connecting the press beam B with the levers D, D, by the connecting bars E, E, whereby the press is made to operate from above and below. Second, the socket shoe I and the ratchet plate H, or their mechanical equivalents, for altering and gauging the power of the press, substantially as set forth and specified."

No. 24,259. C. A. YOUNG and S. W. YOUNG, of Providence, R. I., for an "Improvement in machines for making upholstery springs."

"What we claim is, 1st, the cutters *v*, *r*, attached to the machine and arranged relatively with the rolls D, D, I, and bar J, when the movable cutter *r* is actuated automatically by suitable mechanism to cut the springs as formed from the continuous wire T. 2nd, the bar J attached to the lever H, or other part of the machine or framing when provided with a bend *l* to project over the uppermost roller D, for the purpose of guiding and ensuring the turning or bending of the wire T, as set forth. 3rd, the plates *n*, *p*, when used in connection with the shears *o*, *r*, for the purpose of cutting off the springs and bending the ends thereof, simultaneously and substantially as described."

No. 24,260. JOHN W. DRUMMOND, of New York, N. Y., assignor to Horace H. Day, of same place, for an "Improvement in machines for measuring cloth."

"What I claim is, the combination of the measuring wheel, substantially as described, in combination with the spring

block, or the equivalent thereof, for holding the cloth to the periphery of the wheel, and for stopping the said wheel the moment the cloth has passed off, substantially as described."

No. 24,261. D. G. Fletcher, of Racine, Wis., assignor to himself and HenryWeiskopf, of same place, for an "Improvement in coffee pots."

"I claim the box-like strainer D, arranged with a hinged top *c*, so that access can be had to the same from the inside as well as from the outside, and that the same can easily be cleaned, substantially as described."

No. 24,262. Wm. H. Lazelle, of Boston, Mass., assignor to himself and Elbridge B. Lazelle, of same place, for an "Improved refrigerator."

"I claim the combination and arrangement of the siphon pipe I, water space F, and ice box C, open and beveled at one end, substantially as set forth, and for the purposes described."

No. 24,263. Hugh Logue, of Philadelphia, Pa., assignor to himself and Daniel P. Vandergrift, of same place, for an "Improvement in dry gas meters."

"I claim so constructing one of the partitions between two of the chambers of a dry gas meter, that it may afford a passage for the gas from the inlet pipe to the central opening of the valve seat, substantially as and for the purpose set forth."

No. 24,264. Henry F. Mann, of Laporte, Ind., assignor to himself and Wm. J. Walker, of same place, for an "Improved hemp brake."

"What I claim is, first, the combination of the adjustable cams or arms (*c*) with the breaker, as constructed, the whole being arranged and operated substantially as described. 2dly, the adjustable spring (*h*), as arranged and operated for the purposes set forth."

No. 24,265. Henry Messer, of Roxbury, Mass., assignor to Chas. Rice, of Boston, Mass., for an "Improved machine for cutting india rubber into threads."

"What I claim is, the arrangement and combination of the rotating table D, and the adjustable cutters (*o*), (*s*), substantially as and for the purposes herein shown and described."

No. 24,266. A. Orvis, of Niagara, N. Y., assignor to himself and Downs and Co., of Seneca Falls, N. Y., for an "Improvement in grinding mills."

"What I claim as my invention is, 1st, the construction and arrangement of cylinder D, and concave F, with supplementary cylinder G, whereby the rhomboidal teeth *f* and *g* serve to adjust the parts to efficient action, by means of the longitudinal movement of the collar *e* on the shaft B, substantially as set forth. I also claim the peculiar conformation of the grinding surfaces of the cast-iron cylinder E, and concave H, consisting of the alternate intersection of the raised and depressed corrugations thereof, in the manner and for the purpose shown and described. I claim the combination and arrangement of the two concaves F and G, spout *j*, and divided winged partition R, or its equivalent, whereby the operation of cracking and grinding in said concaves may be conjoint or separate, substantially in the manner and for the purposes shown and described. I claim the automatic rapper *v*, arranged and operated substantially as described, for the purpose of keeping the bolt free from obstructions, and rendering its action efficient, as set forth."

No. 24,267. Wm. H. Tendler, of Cambridge, Mass., assignor to himself and John F. Moeschlin, of same place, for an "Improved sofa bedstead."

"I claim the improved sofa bed, constructed not only with each of its arm rests formed in two parts and hinged together, arranged and applied to the back *b* and bed frame *a*, as described, but with its seat hinged to the bed frame, so as to be capable of being moved with respect to it and the arm rests, as specified. I also claim the combination of the pillow and foot rests *l*, *m*, E, and F, with the arm rests and seat frame or seat applied to the frame A, the whole being made to operate together, essentially as explained."

No. 24,268. Ferdinand Walters, of Covington, Ky., assignor to C. F. Walters and S. H. Stout, of same place, for an "Improvement in mill drivers."

"I claim the driver (*d*, d^1,) constructed and arranged with reference to the shaft (C) and cap (*c*), substantially as and for the purposes set forth."

No. 24,269. Alfred B. Wilton, of Dorchester, Mass., assignor to himself and Chas. Adams, of same place, for an "Improved heel for boots and shoes."

"I claim the improvement of the dished or concave elastic heel, as made with the air channel *b*, leading out of the concavity *a*, and arranged substantially as described."

Re-issues.

John McCollum, of New York, N. Y., for an "Improvement in cracker machines."—Patented 23rd March, 1852.—Re-issued 31 May, 1859.

"What I claim is, the combination of adjustable springs with a cracker cutter, and its resisting surface or bed, substantially as herein-before described, and substantially for the purposes herein-before set forth."

Adolph Stempel, of New York, N. Y., for "Machine for creasing and blacking leather for harness."—Patented 2nd November, 1858.—Re-issued 31st May, 1859.

"What I claim is, 1st, the pressure roller F, and the creasing and embossing rollers *i*, in combination with the color fountains K and L, and felt rolls M, M, arranged to operate as and for the purpose set forth. 2nd, the arrangement of the embossing rollers *i* with thin projecting flanges i^1, to operate in combination with the guides *d*, d^1, substantially in the manner and for the purpose specified."

David Stuart and Richard Peterson, of Philadelphia, Pa., assignees (through mesne assignment) of John B. Chollar, of Albany, N. Y., for an "Improvement in plates for boiler holes and tops of stoves."—Patented 6th February, 1849.—Re-issued 31st May, 1859.

"What I claim is, constructing a cross piece for cooking stoves and ranges, with a hollow chamber, and with the openings *e*, *e*, to allow air to pass into the said chamber, substantially as set forth."

James Dodge, of Waterford, N. Y., assignor to himself and David Blak, of Albany, N. Y., for an "Improvement in grinding and polishing knives."—Patented 12th October, 1858.—Re-issued 31st May, 1859.

"What I claim as my invention, is, grinding and polishing articles, and forming their surfaces upon or against the periphery of a grindstone or polishing wheel, or other analogous reducing surface, by attaching them to the periphery of a revolving drum or cylinder, substantially as herein set forth. I also claim making matrices in the periphery of a wheel, to which a series of articles to be ground are attached, said matrices being adapted to give the required shape to the articles to be ground, so as to grind, polish, and shape such articles in a uniform manner, substantially as and upon the principle herein set forth. I also claim, in combination with said matrices, attaching and supporting the articles to be ground upon the cylinder, in such manner as to allow them to rock or accommodate themselves thereon, whereby their surfaces may be shaped either convex, flat, or concave, substantially as herein set forth."

George H. Bechtel, of Philadelphia, Pa., assignee (through mesne assignment) of Horatio G. Sickels, of said Philadelphia, for an "Improvement in gas lamps."—Patented 7th August, 1849.—Re-issued 31st May, 1859.

"What I claim is, first, forming a valve within the adjustable gas chamber P, and a seat for the said valve on the tube which contains the wick *t*, so as to regulate and extinguish the light, when required, whether the said valve be made and arranged in the manner described, or other modes substantially the same, by which similar results may be produced. Second, the employment of the safety valve C, D, E, in combination with the guard T, constructed substantially as described. Third, I also claim the guard T, in combination

with the combined burner and generator, arranged and operating in the manner and for the purpose set forth. Fourth, I likewise claim combining the generator Q, R, burner P, ring U, and guard T, in a single piece, made to ascend and descend simultaneously, in the manner and for the purpose substantially as herein set forth."

ADDITIONAL IMPROVEMENT.

LYMAN P. HARRIS, of Mansfield, Ohio, for "Improvement in apparatus for evaporating saccharine juices."—Patented 18th January, 1859.—Additional Improvement, dated 31st May, 1859.

"What I claim is, 1st, I claim the application of one or more dampers 'H' to the movable furnace 'A,' also the cooling surface on the evaporator connected therewith for the purposes set forth. 2nd, I claim the movable flue 'I,' as described. 3rd, I claim the broad hook, or supporter 'K,' or its equivalent, as set forth."

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Notices to Proceed.

NOTICE is hereby given, that

342. MATTHEW CURTIS, of the city of Manchester, in the county of Lancaster, Machinist, and JOHN MILLER, of Staley Bridge, in the said county, Manager, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in certain mules for spinning cotton and other fibrous substances."

346. And JOHN SMITH, of Bradford, in the county of York, Machine Maker, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for preparing and combing wool and other fibrous substances."

As set forth in their respective petitions, both recorded in the said office on the 7th day of February, 1859.

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350. And JAMES HOSKING, Oil Merchant, Walworth Common, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the manufacture of lamps."

357. And ALEXANDER CLARK, of Gate Street, Lincoln's Inn Fields, in the county of Middlesex, Engineer and Revolving Shutter Manufacturer, has given the like notice in respect of the invention of "Improvements in revolving shutters and blinds, and in apparatus connected therewith."

As set forth in their respective petitions, both recorded in the said office on the 8th day of February, 1859.

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362. And JOHN STEPHEN JOSEPH, of Rhostyllan, near Wrexham, in the county of Denbigh, North Wales, has given the like notice in respect of the invention of "Improvements in coke ovens and in cooling and extinguishing coke."

As set forth in his petition, recorded in the said office on the 9th day of February, 1859.

373. And HENRY POTTER BURT, of Charlotte Row, Mansion House, in the city of London, has given the like notice in respect of the invention of "Improvements in railway carriages and waggons."

377. And ROBERT JOSEPH ELLIS, of Liverpool, in the county of Lancaster, Merchant, has given the like notice in respect of the invention of "Improvements in the apparatus for lifting sunken vessels and other submerged bodies."

As set forth in their respective petitions, both recorded in the said office on the 10th day of February, 1859.

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390. And CHARLES JACKSON, of Store Street, Bedford Square, in the county of Middlesex, Pianoforte Manufacturer, has given the like notice in respect of the invention of "Improvements in the action of pianofortes."

392. And HENRY RANSFORD, of West Brompton, in the county of Middlesex, has given the like notice in respect of the invention of "An improvement in building ships and other vessels."

As set forth in their respective petitions, both recorded in the said office on the 11th day of February, 1859.

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400. And JAMES BENNETT and JOHN BENNETT, of the firm of Bennett and Sons, of Kingsland Road, in the county of Middlesex, Engineers, have given the like notice in respect of the invention of "An improvement in refrigerators for cooling beer and worts."

401. And GEORGE BETJEMANN, GEORGE WILLIAM BETJEMANN, and JOHN BETJEMANN, all of Ashby Street, in the county of Middlesex, Desk and Dressing Case Makers, have given the like notice in respect of the invention of "Improvements in book-slides."

As set forth in their respective petitions, both recorded in the said office on the 12th day of February, 1859.

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410. And CHARLES SANDERS, Photographic Mat Manufacturer, of Harford Street, Birmingham, in the county of Warwick, has given the like

notice in respect of the invention of "Certain improvements in ornamenting English passe-partouts for photographic-pictures, also the glasses used with the same, and which said modes of ornamenting are also applicable to ornamenting photographic frames generally."

411. And JOHN WRIGHT, of New George Street, Sheffield, in the county of York, Spring Manufacturer, has given the like notice in respect of the invention of "Improvements in reducing and rolling steel and iron wire and other forms of those metals in long lengths."

412. And JOSIAH LATIMER CLARK, of Haverstock Hill, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the means of working railway signals and switches."

414. And ROBERT CLEGG, of Islington, in the county of Middlesex, FREDERICK ANGERSTEIN, of Kennington, in the county of Surrey, and JOHN WILLIAM PAGE, of Walworth Road, in the county of Surrey, have given the like notice in respect of the invention of "Improvements in making soap."

As set forth in their respective petitions, all recorded in the said office on the 14th day of February, 1859.

418. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in the manufacture of steel, iron, and cast steel."

423. And GEORGE BEDSON, of Manchester, in the county of Lancaster, Manager for Messrs. Richard Johnson and Brother, Wire Manufacturers, has given the like notice in respect of the invention of "Improvements in joining wire for telegraphic and other purposes."

As set forth in their respective petitions, both recorded in the said office on the 15th day of February, 1859.

427. And RICHARD COOKSON, of Layton Hawes, near Blackpool, in the county of Lancaster, Gentleman, and CHARLES WILLIAM HOMER, at Castle Hill, near Northwich, in the county of Chester, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machinery for making bricks, tiles, tubes and other articles of plastic materials, and in the mode of jointing drain pipes."

429. And RICHARD JENNINGS STEVENSON PEARCE, of Fleet Street, in the city of London, Machinist, has given the like notice in respect of the invention of "Improvements in weighing and dynamic machines."

As set forth in their respective petitions, both recorded in the said office on the 16th day of February, 1859.

445. And PIERRE EDOUARD FRAISSINET, of Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "A new or improved structure of iron, applicable for paving, flooring, bridges, gratings, girders, and other like purposes."

As set forth in his petition, recorded in the said office on the 17th day of February, 1859.

453. And GEORGE WALLIS, of Stretton, near Penkridge, in the county of Stafford, Artist, has given the like notice in respect of the invention of "A new or improved method of engraving, applicable to the production of printing surfaces and the ornamentation of metallic and other surfaces."

456. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in pressure guages."—A communication from abroad by Louis Droissart, Mechanician, of Paris.

As set forth in their respective petitions, both recorded in the said office on the 18th day of February, 1859.

458. And PIERRE ANTOINE JOSEPH DUJARDIN, of the town of Lille, France, Physician, has given the like notice in respect of the invention of "Improvements in the printing apparatus of railway telegraphs."

464. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "An improved apparatus for manufacturing the strands of wire-ropes."—A communication from Jean Baptiste Pieux-Aubert, residing at Clermont-Ferrand, Puy-de-Dôme, in the empire of France.

As set forth in their respective petitions, both recorded in the said office on the 19th day of February, 1859.

483. And WILLIAM STETTINIUS CLARK, of 76, Cannon Street West, in the city of London, and of 35, Boulevart Bonne Nouvelle, Paris, in the empire of France, has given the like notice in respect of the invention of "Improvements in the formation of cast-iron rails for city railways, and also in the method of uniting the ends of two adjacent rails for railway use."—A communication from Sydney A. Beers, Civil Engineer, now residing at Brooklyn, New York.

As set forth in his petition, recorded in the said office on the 22nd day of February, 1859.

489. And AUGUSTUS WILLIAM SMETHURST, of Chorley, in the county of Lancaster, Cotton Spinner and Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for driving looms for weaving."

As set forth in his petition, recorded in the said office on the 23rd day of February, 1859.

505. And JEAN HENRI GUILLAUME DANIEL WAGNER, of Paris, in the empire of France, Manufacturer, has given the like notice in respect of the invention of "Apparatus for cleaning water and removing all matters in suspension and dissolution contained in it, water intended to feed generators of all sorts, application also to other purposes, which besides, previous to its getting into the generators, is heated to the highest degree, without almost any expense."

506. And JOHN DALE, of Cornbrook, in Manchester, and county of Lancaster, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in concentrating caustic alkalis, and in applying a product therefrom to the purpose of obtaining motive power, and to other purposes."

As set forth in their respective petitions, recorded in the said office on the 24th day of February, 1859.

550. And Robert Hanham Collyer, of Alpha Road, in the county of Middlesex, Doctor of Medicine and Civil Engineer, has given the like notice in respect of the invention of "A process of preparing materials for the manufacture of paper, and a machine employed therein, which machine is applicable for crushing, grinding, bruising, and reducing various substances."

As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

779. And Charles Lewis Roberts, of Clerkenwell, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in cigars."

As set forth in his petition, recorded in the said office on the 29th day of March, 1859.

797. And John Cartwright, of Shrewsbury, in the county of Salop, Agricultural Implement Manufacturer, has given the like notice in respect of the invention of "An improved implement for crushing clods and pulverizing the surface soil, also convertible into a press wheel roller."

As set forth in his petition, recorded in the said office on the 30th day of March, 1859.

1026. And William Moxon, of Parliament Street, in the city of Westminster, Contractor, and Joseph Jeffrey Bennett, of Homer Terrace, Victoria Park, in the county of Middlesex, Civil Engineer, have given the like notice in respect of the invention of "Improved apparatus for raising or lifting and lowering heavy bodies."

As set forth in their petition, recorded in the said office on the 23rd day of April, 1859.

1158. And Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A self-regulating horse machine." — A communication from abroad by P. Isaac Garin, No. 10, Rue Mogador, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 9th day of May, 1859.

1173. And George Bell, of Wandsworth, in the county of Surrey, Manufacturer, has given the like notice in respect of the invention of "Improvements in matches or fusees."

As set forth in his petition, recorded in the said office on the 10th day of May, 1859.

1194. And William Warne, John Americus Fanshawe, James Archibald Jaques, and Thomas Galpin, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, have given the like notice in respect of the invention of "An improved compound or preparation of materials for, and mode of, and apparatus for, covering and insulating wires or conductors used for telegraphic or electrical purposes."

As set forth in their petition, recorded in the said office on the 12th day of May, 1859.

1286. And Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved apparatus for the preparation of sand moulds for metal casting."—A communication from Messrs. Maudoy and Couty, residing in Paris.

As set forth in his petition, recorded in the said office on the 24th day of May, 1859.

1317. And Bernhard Samuelson, of Banbury, in the county of Oxford, has given the like notice in respect of the invention of "Improvements in machines for cutting roots and other vegetables."

1319. And Walter Crum, of Thornliebank, in the county of Renfrew, Bleacher and Calico Printer, has given the like notice in respect of the invention of "Improvements in printing and dyeing textile fibres and fabrics."

1321. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E. C., Patent Agent, has given the like notice in respect of the invention of "Improvements in machinery for cleaning, grinding, and bolting corn and other grain."—A communication from abroad by Jean Baptiste Falguière, of Marseilles.

As set forth in their respective petitions, all recorded in the said office on the 28th day of May, 1859.

1336. And Enoch Leeson, of No. 13, Traffic Street, Derby, in the county of Derby, Lace Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for the manufacture of ornamental chenille fringes and braids or other fabrics."

As set forth in his petition, recorded in the said office on the 30th day of May, 1859.

1378. And James Wood and William Wood, both of the town and county of the town of Nottingham, Lace Manufacturers, have given the like notice in respect of the invention of "A peculiar mode or method of dying lace or other fabrics, and making the same into bonnet and cap fronts or other articles."

As set forth in their petition, recorded in the said office on the 4th day of June, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

21st June, 1859.

2917. William Speakman Yates, of Leeds, in the county of York, Brush Maker, for an invention of "Machinery or apparatus for dragging bristles, and drawing hair and vegetable fibre."—Dated 21st December, 1858.

2920. Robert Clegg, of Islington, in the county of Middlesex, Frederick Angerstein, of Kennington, in the county of Surrey, and George Ferry, of Hackney, in the said county of Middlesex, for an invention of "Improved mechanism for imparting reciprocating motion to machinery, and more especially pumps."—Dated 22nd December, 1858.

2926. Edward Thomas Dunn, of Hammersmith, in the county of Middlesex, Gentleman, for an invention of "Improved fabrics suitable for the covering of floors, walls, and other like purposes."—Dated 22nd December, 1858.

2930. Alexander Prince, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for an invention of "Improvements in ornamenting and illuminating surfaces of glass."—Dated 22nd December, 1858.

2942. John Wright Child, of Halifax, in the county of York, Engineer, for an invention of "Improvements in dyeing wool and other fibres."—Dated 24th December, 1858.

2954. John Radley, of 22, Upper Sackville Street, in the city of Dublin, Hotel Keeper, for an invention of "An improved cooking apparatus."—Dated 27th December, 1858.

2966. John Sinclair, of the city of Dublin, Ireland, Turner and Fitter, for an invention of "Improvements in pistons."—Dated 28th December, 1858.

12. Pierre Emmanuel Guérinot, 60, Boulevart de Strasbourg, Paris, Mechanician Jeweller, for an invention of "Improvements in the application of an apparatus to railway locomotives, waggons, and carriages, for the purpose of lessening the effect of concussion in the event of collision."—Dated 1st January, 1859.

37. Frederick Clark, of King Street, Bloomsbury, in the county of Middlesex, Turner, for an invention of "Improvements in connecting knobs and handles to the spindles of locks and latches, and other articles of a like nature."—Dated 5th January, 1859.

39. James Howard, of Bedford, Agricultural Implement Maker, for an invention of "An improved construction of lever-neck plough."—Dated 5th January, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 18th June*, 1859, *inclusive.*)

16th June.

1436. Walter Henry Tucker, of Fleet Street, London, for an invention of "Improvements in locks and latches."—Dated 18th June, 1856.

1437. Matthew Andrew Muir, of Glasgow, in the county of Lanark, North Britain, Machinist, and James McIlwham, of the same place, Machinist, for an invention of "Improvements in looms for weaving."—Dated 18th June, 1856.

1438. Charles Clifford, of the Temple, for an invention of "Improvements in boat lashings, and in blocks and apparatus used for raising and lowering boats and other articles."—Dated 18th June, 1856.

1441. George Tillett, of Clapham, in the county of Surrey, Bedstead Manufacturer, for an invention of "Improvements in bedsteads."—Dated 19th June, 1856.

1473. Henry Hussey Vivian, Bernhardt Gustav Herrmann, and William Morgan, all of the Hafod Works, Swansea, in the county of Glamorgan, for an invention of "Improvements in the manufacture of copper, and in obtaining gold and silver from the ores employed in such manufacture."—Dated 23rd June, 1856.

1475. Isaac Atkin and Marmaduke Miller, of the town and county of the town of Nottingham, Gentlemen, for an invention of "Improvements in machinery for sewing lace and other fabrics."—Dated 23rd June, 1856.

17th June.

1479. John Saxby, of Brighton, Sussex, for an invention of "A mode of working simultaneously the points and signals of railways at junctions, to prevent accidents."—Dated 24th June, 1856.

18th June.

1934. Pierre Noyer, of 38, Gerrard Street, Soho, for an invention of "Winding up fusee watche and pocket chronometers, and setting the hand without key."—Dated 19th August, 1856.

Erratum in Journal of 17th June.

1369. For "apparatus" read "apparatuses."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

List of Specifications published during the week ending 17th June, 1859.

No.	Price.	Subject-Matter.
2517	3d.	Furnaces.
2518	1s. 11d.	Machinery for making metallic screw rivets, &c.
2519	3d.	Propelling vessels.
2520	6d.	Removing fur from skins, &c.
2524	6d.	Screw propellers.
2526	3d.	Gas meters.
2527	5d.	Gas regulators.
2528	3d.	Manufacture of fuel.
2529	6d	Oil cans.
2530	3d.	Motive power engine.
2531	1s.	Ships of war and other vessels, &c.
2532	10d.	Manufacture of railway bars.
2533	10d.	Apparatus for securing doors of safes, closets, and apartments.
2534	3d.	Separating animal fibres from mixed fabrics.
2535	10d.	Cisterns.
2536	3d.	Treating and manufacturing buffalo and other horns, &c.
2537	3d.	Propelling vessels.
2538	3d.	Manufacture of steel and iron wire, &c.
2539	3d.	Shuttles for looms.
2540	2s. 11d.	Manufacture of iron.
2541	3d.	Manufacture of wood soles for clogs, boots, and shoes.
2542	7d.	Apparatus for illustrating conic sections and the lines of the globe.
2543	10d.	Looms for weaving.
2544	8d.	Looms for weaving.
2545	7d.	Moveable heels for boots and shoes, &c.
2546	7d.	Air pumps, &c.
2547	3d.	Furnaces for smelting ores, &c.
2548	1s. 9d.	Portable steam engines.
2549	11d.	Furnaces and boilers, &c.
2550	3d.	Floating docks, &c.
2551	3d.	Application of glass to ornamental and useful purposes.
2552	3d.	Manufacture of shuttlecocks.
2553	4d.	Manufacture of mats, &c.
2554	3d.	Manufacture of caustic alkaline lees.
2555	10d.	Covering rollers, shafts, and tubes, &c.
2557	9d.	Machinery for drying yarns and other materials.
2558	7d.	Steam boilers.
2559	5d.	Economical guard for candles and wax lights.
2560	3d.	Hammer rails of pianofortes.
2562	10d.	Finishing piled fabrics, &c.
2563	3d.	Obtaining motive power.
2565	3d.	Compound metal.
2566	10d.	Colouring, preserving, and desiccating wood and marble, &c.
2567	3d.	Advertising.
2568	10d.	Horse-tamer or brake.
2569	6d.	Effecting the locomotion of carriages, &c.
2570	7d.	Machinery for kneading dough or mixing plastic materials.
2571	6d.	Horse mill or gear.
2572	10d.	Manufacture of buttons, &c.
2573	9d.	Railway sleepers.
2574	3d.	Fountain pens.
2575	11d.	Instrument for approximating the course of an approaching vessel at sea.
2576	3d.	Machinery for adjusting the permanent way of railways.
2577	3d.	Fire-arms and ordnance.
2578	3d.	Application of hydrogen gas in distilling coal, &c.
2579	3d.	Producing colors on cotton, linen, and silk fabrics.
2580	7d.	Electric telegraphs.
2582	3d.	Waterproof coating.
2583	6d.	Smoothing iron.
2584	7d.	Laying and securing telegraphic cables.
2585	3d.	Apparatus for heating water and other liquids.
2586	9d.	Manufacture of tobacco, &c.
2587	3d.	Musical instruments.
2588	7d.	Breakwaters, &c.
2589	6d.	Machinery for spinning cotton, &c.
2590	7d.	Looms for weaving, &c.
2593	3d.	Apparatus for uniting lace to blond and other fabrics.
2595	7d.	Treating tanned hides.
2596	3d	Screw propellers.
2598	5d.	Manufacture of hats, bonnets, and caps.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5s. must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2d. each, or 3d. free by post :—

Austria, No. 291.
Bavaria, No. 262.
Belgium, Nos. 292 and 348.
Baden, and Petty States of Germany, No. 325.
Canada, No. 279.
Cuba, No. 498.
Dutch West Indies, No. 322.
France, No. 228.
Greece, No. 325.
Germany, No. 435.
Hanover, No. 231.
India, Nos. 240, 348, and 552.
Mexico, No. 496.
Netherlands, No. 289.
New South Wales, No. 386.
Prussia, Nos. 313 and 329.
Parma, Piacenza, and Guastalla, No. 321.
Portugal, No. 325.
Poland, No. 335.
Roman States, No. 319.
Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 527 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

A FREE LIBRARY and READING ROOM, in connection with the Office of the Commissioners of Patents, is open to the Public daily from 10 till 4 o'clock.

In addition to the Printed Specifications, Indexes, and other publications of the Commissioners, the Library includes a Collection of the leading British and Foreign Scientific Journals, and text-books in the various departments of science and art. A printed Catalogue of the Library is on sale.

NOTE.—The Commissioners' publications may be consulted daily in the Library of the British Museum; in the Library of the Society of Arts; and in the Free Libraries of the following Towns and Cities:—

Aberdeen (*Public Library Town House*).
Accrington (*Mechanics' Institution, Bank Street*).
Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
Bradford, Yorkshire (*Borough Accountant's Office, Corporation Buildings, Swain Street*).
Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
Leamington Priors (*Public Library, Town Hall*).
Leeds (*Town Clerk's Office, Town Hall*).
Leicester (*Corporation Library, Town Hall*).
Limerick.
Liverpool (*Free Public Library, Duke Street*).
——— (*Royal Institution*).
London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*).
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices, Institutions, &c.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
Dublin Castle, Dublin.
Rolls Office, Chancery (Four Courts), Dublin.
Office of Chancery, Edinburgh.
East India House, Military Stores, Leadenhall Street.
Incorporated Law Society Chancery Lane, London.

Seats of Learning.

Cambridge University.
Trinity College, Dublin.
Queen's College, Galway.
University College, London.

British Colonies.

Malta.
Cape of Good Hope.
Mauritius.
India—Bengal.
North-West Provinces.
Madras.
Bombay.
Ceylon.
Victoria—Patent Office, Melbourne.
Parliamentary Library, Melbourne.
New South Wales.
South Australia.
Tasmania.
New Zealand.
Newfoundland.
Canada—Quebec.
Toronto.
New Brunswick.
Prince Edward Island.
Antigua.
Barbados.
Jamaica.
Trinidad.
British Guiana.

Foreign States.

Austria—Handels Ministerium, Vienna.
Bavaria—Königliche Bibliothek, Munich.
Belgium—Ministère de l'Intérieur, Brussels.
France—Bibliothèque Impériale, Conservatoire des Arts et Métiers, Hôtel de Ville. } Paris.
Gotha—Ducal Friedenstein Collection.
Hanover—Ministerium des Innern, Hanover.
Netherlands—Ministère de l'Intérieur, The Hague.
Prussia—Handels Ministerium, Berlin.
Russia—Bibliothèque Impériale, St. Petersburg.
Sardinia—Ufficio delle Privative, Turin
Saxony—Polytechnische Schule, Dresden.
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B. WOODCROFT,
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No. 571. FRIDAY, JUNE 24, 1859. Price 2d.

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686. To FERDINAND POTTS, of the firm of F. Potts and Co., Tube Manufacturers, of Birmingham, in the county of Warwick, for the invention of "A combined metallic support and label for training, supporting, removing, and transplanting flowers or trees, in gardens, or green or hot houses, or for other horticultural purposes."

On his petition, recorded in the Office of the Commissioners on the 18th day of March, 1859.

1339. To WILLIAM SMITH, of Nos. 18 and 19, Salisbury Street, Adelphi, Civil Engineer, for the invention of "Apparatus for raising and docking ships, and other similar purposes."—A communication from abroad by Mr. John W. Nystrom, a citizen of the United States of North America, at present residing in Russia.

On his petition, recorded in the Office of the Commissioners on the 31st day of May, 1859.

1350. To GEORGE HALLEN COTTAM and HENRY RICHARD COTTAM, of St. Pancras Iron Works, Old Saint Pancras Road, in the county of Middlesex, for the invention of "Improvements in stable fittings."

On their petition, recorded in the Office of the Commissioners on the 1st day of June, 1859.

1381. To THOMAS HYLAND, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in the manufacture of gum or dextrine, and their compounds, from starch."

1383. And to JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, for the invention of "Improved machinery for forming bats of fleece or sheet sliver, and also for folding cloth and other fabrics."

On both their petitions, recorded in the Office of the Commissioners on the 6th day of June, 1859.

1385. To CHARLES PORLEY, of the city of Manchester, Cotton Spinner, for the invention of "Improvements in machinery for preparing to spin, and for spinning cotton and other fibrous materials."

1387. To PETER SALMON, of Glasgow, in the county of Lanark, Merchant, for the invention of "Improvements in valves for pumps and other uses."

1389. To WILLIAM HENRY DORMAN, of Winchester House, Old Broad Street, in the city of London, and CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in traction and locomotive engines."

1391. To JOHN GREENFIELD, of 8, Speedwell Street, Oxford, in the county of Oxford, for the invention of "Improvements in fastenings for dresses and other like apparel."

1393. And to FRANCIS MUIR, of Paisley, in the county of Renfrew, North Britain, Pattern Printer, for the invention of "Improvements in ornamental or colour printing."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of June, 1859.

1395. To CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the city of London, Engineer, for the invention of "Improvements in machinery for punching and shearing metal."—Partly a communication from abroad by Michael de Bergue, of Barcelona, in the kingdom of Spain.

1397. To JOSEPH NICOLAS ROYER, Tailor, of Paris, France, for the invention of "Improvements in the manufacture of wadded or quilted fabrics, and in their imitation.

1399. To CHARLES WALTER EDDY, of Kegworth in the county of Leicester, Master of Arts, for the invention of "An improvement in reaping machines."

1401. And to JOHN EYRE ASHBY, of Enfield, Bachelor of Arts, F.R.A.S., for the invention of "Improvements in sights for fire-arms."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of June, 1859.

1403. To GEORGE BARTHOLOMEW of the town and county of Linlithgow, North Britain, Edge Tool Maker, for the invention of "Improvements in shoes for horses and other animals."

1404. To JOSEPH HENRY TUCK, of 34, Great George Street, Westminster, for the invention of "Improvements in breakwaters, sea walls, and like structures."

1405. And to ENOS WELSFORD, of Bona, Algeria, Proprietor, for the invention of "Improvements in tanning."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of June, 1859.

1406. To THOMAS GREENSHIELDS, of No 11, Little Titchfield Street, London, for the invention of "Improvements in purifying gas and obtaining ammoniacal and other salts."

1407. To MICHAEL JOHN HAINES, of Dursley, in the county of Gloucester, Strap Maker, for the invention of "Improvements in the manufacture of driving straps or bands."

1408. To GEORGE JAMES FARMER, of Hampton Street, Birmingham, in the county of Warwick, Machinist, and GEORGE BRIGGS HARDY, of Alexander Place, Brompton, in the county of Middlesex, Chemist, for the invention of "Improvements in stair rods and eyes or sockets, which are also applicable for other purposes."

1409. To ALBERT FREDERICK HAAS, of Camomile Street, in the city of London, Merchant, for the invention of "Improvements in lamp and gas shades or glasses."

1410. And FRANCIS PULS, Chemist, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, for the invention of "Improvements in the treatment of hydrocarbons."

1411. To SAMUEL WHITFORD TYLER, of Greenwich, in the state of New York, United States of America, for the invention of "Improvements in harvesters."

1412. To WILLIAM SELLERS, of Philadelphia, in the state of Pennsylvania, one of the United States of America, Engineer and Machinist, for the invention of "Improvements in ovens for baking bread or other substances, which improvements are also applicable for drying, annealing, and other analogous purposes."

1413. And to MOSES HAYM PICCIOTTO, of Finsbury Circus, in the city of London, Merchant, for the invention of "Improvements in apparatus for producing or obtaining motive power."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of June, 1859.

1414. To WILLIAM DONBAVAND, of the city of Manchester, in the county of Lancaster, Scale beam and Weighing Machine Manufacturer, and DAVID CRICHTON, of the same place, Machinist, for the invention of "Improvements in looms for weaving."

1415. To JABEZ JAMES, of Broadwall, Lambeth, in the county of Surrey, Engineer, for the invention of "Improvements in obtaining and applying motive power."

1416. To FRANCIS PALLING, of Esher Street, Lambeth, county of Surrey, Clerk, for the invention of "Improvements in the construction of lamps for the purpose of burning tallow, grease or oils, either singly or in combination."

1417. To THOMAS FREDERICK HENLEY, of Denbigh Street, Pimlico, in the county of Middlesex, for the invention of "Improvements in obtaining alcohol or spirit from rice and other grain, and in apparatus for that purpose."

1418. To HENRY JOHN NICOLL, of the firm of Messrs. H. J. and D. Nicoll, Merchant Tailors, 114 to 120, Regent Street, in the county of Middlesex, for the invention of "Improvements in trowsers."

1419. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improvement in fire arms."—A communication from abroad from Charles Theodore Pierson, of New York, in the United States of America.

1420. To FELIX ALEXANDRE RESTUD DE BEAUREGARD, of Paris, in the French empire, Civil Engineer, for the invention of "Certain improvements in generating steam, and in apparatus for obtaining power and in generating steam for other purposes."

1421. And to GEORGE CLAUDIUS ASH, of West View, Hampstead, in the county of Middlesex, for the invention of "Improvements in the manufacture of artificial teeth."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of June, 1859.

1422. To BENJAMIN BAUGH, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the county of Warwick, for the invention of "Certain improvements in apparatus or machinery for raising metals."

1423. To HENRY LEE CORLETT, of Inchicore, in the county of Dublin, Engineer, for the invention of "Improvements in rails, and the permanent way of railways, parts of such improvements being applicable to common roads."

1424. To OLIVER MAGGS, of Bourton, in the county of Dorset, for the invention of "Improvements in washing machines."

1425. To ARTHUR SMITH, of 4, Stafford Terrace, Loughborough Road, Brixton, in the county of Surrey, for the invention of "Improvements in bleaching and purifying bees' wax."

1426. To CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the county of Lancaster, Soap Manufacturer, for the invention of "A means of cleansing or purifying the 'Thames.'"

1427. To JACQUES THÉODORE SMETS, of Plaçamen, in the empire of France, Distiller, for the invention of "Improvements in the manufacture of

vinegar from grain and other vegetable products containing saccharine matter, and from a refuse product obtained in the manufacture of starch, also in apparatuses employed therein."

1428. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in the fitting of life and other boats."—A communication from abroad by Matthias Ludlum, of Fairhaven, in the state of Vermont, United States of America.

1429. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the manufacture of piled fabrics, and in the machinery employed in such manufacture."—A communication from abroad by Charles Miller, of New York City, in the United States of America, Machinist.

On their several petitions, recorded in the Office of the Commissioners on the 13*th day of June,* 1859.

1430. To GEORGE SMITH, of Manor Road, Saint Mary's, Newington, in the county of Surrey, for the invention of "Improvements in hat-bands."

1431. To WILLIAM BROWN the younger, of the town and county of Selkirk, North Britain, Manufacturer, and SIMEON BATHGATE, of the same place, Engineer, for the invention of "Improvements in machinery or apparatus for carding and treating or preparing fibrous materials."

1432. To JOHN DIXON, of Bishopwearmouth, in the county of Durham, Engineer, for the invention of "Improvements in puddling steel."

1433. To JOHN COWAN, of the firm of L. Cowan and Sons, of Barnes, in the county of Surrey, Soap Manufacturers, for the invention of "An improved soap."

1434. To JAMES WANSBROUGH, of Bridge Street, Southwark Bridge, in the county of Surrey, Manufacturer, and ALEXANDER BAIN, of Clerkenwell Green, in the county of Middlesex, Telegraph Engineer, for the invention of "Improvements in effecting communications between parts of railway trains."

1435. And to ALEXANDER MACDONALD, of Manchester, in the county of Lancaster, Engineer, for the invention of "Certain improvements in machinery or apparatus for punching patterns or devices upon metallic printing rollers or cylinders."

On their several petitions, recorded in the Office of the Commissioners on the 14*th day of June,* 1859.

1436. To EDME JULES MAUMENÉ, Professor of Chymistry, and VICTOR ROGELET, Merchant, both residing in Reims, a town of France, for the invention of "Using the 'suint,' or the portion soluble, in water of the greasy substance found on the skin and hair of sheep for the purpose of manufacturing potash and other products."

1437. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in the manufacture of polishing wheels, sticks, and tools."—A communication from abroad by Thomas J. Mayall, of Roxbury, in the county of Norfolk, and state of Massachusetts, United States of America.

On both their petitions, recorded in the Office of the Commissioners on the 15*th day of June,* 1859.

1439. To JAMES TAYLOR, of the town and county of Aberdeen, North Britain, Joiner, for the invention of "Improvements in planes or cutting tools for working in wood."

1440. To SIMON LEVY, of the city of Manchester, in the county of Lancaster, Cap Manufacturer, for the invention of "Improvements in hats, caps, or coverings for the head."

1441. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agent, 123, Chancery Lane, London, W.C., for the invention of "An improved night lamp clock."—A communication from abroad by Louis Montanari, of Lyons, in the empire of France.

1442. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A new siphon meter for liquids." — A communication from abroad by A. Grenet, of No. 10, Rue Mogador, Paris, in the empire of France.

1443. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1A, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "An apparatus for regulating individually the pressure, expenditure, and light in gas burners."—A communication from abroad by Edward Ferguson, of No. 10, Rue Mogador, of Paris, in the empire of France.

1445. To WILLIAM BIRKMYRE, of Port Glasgow, in the county of Renfrew, North Britain, Manufacturer, for the invention of "Improvements in drying, treating, and preparing yarns or thread.

1447. To CHARLES HENRY WARING, of Neath Abbey, in the county of Glamorgan, Mining Engineer, for the invention of "Improvements in safety lamps."

1448. To CHARLES WILKINSON, of Slaithwaite, in the county of York, Merchant, for the invention of "Improvements in doubling or twisting silk, cotton, worsted, linen, or woollen yarns, or yarns from any other fibrous substance."

1449. To THOMAS EDWARD TALLENT, of the Southwark Bridge Road, Southwark, county of Surrey, Engineer, for the invention of "Improvements in the manufacture of leather, and in machinery for that purpose."

1452. To HENRY FRANCIS SMITH, of No. 4, Dale Street, in the city of Manchester, Agent, for the invention of "Improvements in the manufacture of driving straps or bands."

1454. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in casting cylinders and tubes."—A communication from abroad by Freeborn Adams, of Somerville, in the state of Massachusetts, United States of America.

1455. To JOHN HARMER, of Wellington Villas, Brighton, in the county of Sussex, Gent'eman, and WILLIAM PARSONS, of Scotland Street, Brighton,

in the county of Sussex aforesaid, for the invention of "Improvements in fire-arms."

1456. And to THOMAS CATTELL, of 30, Euston Square, in the county of Middlesex, Doctor of Medicine, for the invention of "Improvements in the manufacture of varnish and lacker."

On their several petitions recorded in the Office of the Commissioners, on the 16th day of June, 1859.

1457. To THOMAS ORRELL, junior, of Mill Hill, Bolton-le-Moors, in the county of Lancaster, Cotton Spinner, for the invention of "Certain improvements in mules for spinning."

1458. To HENRI EVETTE, of Lisieux, department of the Calvados, in the empire of France, Manufacturer, for the invention of "A new system of bedding."

1459. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in treating and decomposing fatty substances."—A communication from abroad by Charles Leroy and Joseph Jean Marie Durand, both residing at No. 25, Route de Fontainebleau, at Chantilly, near Paris, in the empire of France.

1460. To WILLIAM HENRY HAMMERSLEY, of Leek, in the county of Stafford, Silk Dyer, for the invention of "Improvements in stringeing, glossing, or finishing silk, and apparatus employed therein."—A communication from abroad, by James Leigh, of Seymour, in the state of Connecticut, America.

1461. To DAVID DEAS, of Carneil, in the county of Fife, North Britain, Farmer, for the invention of "Improvements in reaping machines."

1462. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in generating anhydrous steam, and in apparatuses employed therein and connected therewith."—A communication from abroad by Claudius Marcius Chaney Duplay, of Firminy Loire, France.

1463. To CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "Improvements in the construction of stereoscopes."—A communication from Henry Adolphe Corbin, residing in Paris, in the empire of France.

1464. To JULES JEAN LOUIS GUIBLET, of 11, Wilmington Square, Clerkenwell, in the county of Middlesex, for the invention of "Improvements in watches."

1465. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improved means for assorting substances of different specific gravities."—A communication from abroad by Désiré Marchal, of Brussels.

1466. And to JOHN COMBE, of Leeds, in the county of York, Engineer, and ROBERT SMALPAGE, of the same place, Woollen Draper, for the invention of "Improvements in winding and spinning machinery, and in arranging and securing a uniform delivery from cops, to be used as weft or warp, or for other purposes."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of June, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

1444. LEON BARROUX, of No. 10, Rue Mogador, Paris, in the empire of France, praying for Letters Patent for the invention of "A new system of railroad, supported on iron soles, with or without wood being used," was deposited and recorded in the Office of the Commissioners on the 16th day of June, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And notice is also hereby given that the petition of

1451. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, praying for Letters Patent for the invention of "An improved kiln for brick and plaster burning,"—a communication from Mr. A. Mombrun, residing in Paris,—was deposited and recorded in the Office of the Commissioners on the 16th day of June, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And notice is also hereby given that the petition of

1453. EDWARD ADAMS CUTLER, of the state of Connecticut, of the United States of America, praying for Letters Patent for the invention of "A new and useful machine for making horse shoes,"—a communication from Charles H. Perkins, a resident of Putney, of the said state of Connecticut,—was deposited and recorded in the Office of the Commissioners on the 16th day of June, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

24th June, 1859.

2939. JAMES THOMAS PETER NEWBON and THOMAS SMITH, of Fenchurch Street, Naval Architects, and JAMES BROWN, of Follit Street, Engineer, for an invention of "Improvements in machinery or apparatus for raising and lowering, or otherwise moving heavy weights."—Dated 24th December, 1858.

2945. DICKINSON EDLESTON, of Halifax, in the county of York, Dyer and Finisher, for an invention of "Improvements in preparing and finishing textile fabrics, and in the means or apparatus employed therein."—Dated 24th December, 1858.

2952. William Beckett Johnson, Manager for Messrs. Ormerod and Son, of Manchester, in the county of Lancaster, Engineers, for an invention of "Improvements in the employment of gas for generating steam, and in engines connected therewith."—Dated 24th December, 1858.

2955. Thomas Steven, Ironfounder, and Thomas Scott, Engineer, both of Glasgow, in the county of Lanark, North Britain, for an invention of "Improvements in heating apparatus for culinary and warming purposes, and in part applicable to steam-boiler and other furnaces."—Dated 27th December, 1858.

2959. James Macpherson, of Aberdeen, in the county of Aberdeen, North Britain, Comb Manufacturer, for an invention of "Improvements in solidifying the raspings and other waste of horns and hoofs, and in applying the process to the cementing of prepared horns, hoofs, and tortoiseshell."—Dated 27th December, 1858.

2960. John Davies, of Liverpool, in the county of Lancaster, Provision Merchant, for an invention of "An improved portable self gas generating lamp."—A communication from James Lawrence, resident at Brooklin, in the state of New York, one of the United States of America.—Dated 27th December, 1858.

2962. Frederick William Turner, of Foxhole Colliery, Swansea, in the county of Glamorgan, Mechanical Engineer, for an invention of "Improvements in steam engines, condensers, and steam boilers, and in promoting combustion in the furnaces of the same."—Dated 27th December, 1858.

2965. Benjamin Browne, of No. 52, King William Street, London Bridge, E.C., Civil Engineer and Patent Agent, for an invention of "Certain improvements in the manufacture of boots and shoes, or other coverings for the feet, and in the mode or method of uniting the same or parts thereof."—A communication from a Foreigner residing abroad.—Dated 28th December 1858.

2971. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the manufacture of boots and shoes or other coverings for the feet."—Dated 28th December, 1858.

2999. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the manufacture or production of boots and shoes, or other coverings for the feet, and in the machinery and apparatus employed in such manufacture."—Dated 31st December, 1858.

3000. Henri Robin, of Nantes, in the empire of France, for an invention of "Improvements in reaping machines."—Dated 31st December, 1858.

1. John Talbot Pitman, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention of "An improved mode of making and fitting bungs to casks and other vessels."—A communication from a Foreigner residing abroad.—Dated 1st January, 1859.

7. John Oliver, of White Bank, near Chesterfield, in the county of Derby, for an invention of "Improvements in lubricators for steam engine cylinders."—Dated 1st January, 1859.

23. Joseph Bond Morgan, of Liverpool, in the county of Lancaster, Cotton Broker, for an invention of "Improvements in propelling navigable vessels."—Dated 1st January, 1859.

24. Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "New economical candles."—A communication from Adolphe Michaut, residing at Montpellier, in the empire of France.—Dated 3rd January, 1859.

70. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in steam engines and steam generators."—A communication from abroad by Louis Arnier, of Marseilles, in the empire of France.—Dated 8th January, 1859.

77. John White, of Finchley, in the county of Middlesex, Surgeon, for an invention of "Improvements in cleansing or purifying air, and in increasing or reducing the temperature thereof, and in the application of air so treated to sanitary and other uses."—Dated 10th January, 1859.

91. William Bray and William Thomas George Bray, both of Folkstone, in the county of Kent, Engineers, for an invention of "Improvements in locomotive and traction engines."—Dated 12th January, 1859.

108. Henry Critchley, of Bury, in the county of Lancaster, Engineer, and Solomon Elston, of the same place, Engineer, for an invention of "Certain improvements in pistons for steam engines or other purposes."—Dated 13th January, 1859.

129. William Henry Edward McKnight, of Lydiard House, near Swindon, co. Wilts, for an invention of "An upright-celled boiler, applicable to all heating purposes by hot-water or other fluid."—Dated 15th January, 1859.

139. Pierre Amable de Saint Simon Sicard, of Paris, in the French empire, Chemist, for an invention of "An improved process and apparatus for converting cast iron into steel."—Dated 17th January, 1859.

142. Edward Brooks, of 43, Edward Street, Dorset Square, in the county of Middlesex, Locksmith, for an invention of "Improvements in locks."—Dated 17th January, 1859.

167. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Certain improvements in the manufacture or production of lasts, boot trees, and clogs, and in the machinery and apparatus employed in the production of such articles."—A communication from Jules Mathieu, residing at Paris, in the empire of France.—Dated 19th January, 1859.

201. David Moseley, of the Chapel Field Works, Ardwick, in the city of Manchester, Manufacturer of India-rubber and Gutta Petcha, for an invention of "Improvements in the manufacture of india rubber thread."—Dated 22nd Jauuary, 1859.

367. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166,

Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in fire arms."—A communication from William H. Bell, residing at the city and county of Washington, in the district of Columbia.—Dated 9th February, 1859.

518. Frederick Weeks, of Bolney, in the county of Sussex, for an invention of "The treatment of certain alcoholic products." — Dated 26th February, 1859.

715. George Gregg, of Sheffield, in the county of York, Currier, for an invention of "Improvements in currying or manufacturing leather."—Dated 21st March, 1859.

757. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in fire arms.' —A communication from abroad by Francis H. Bell, of the city and county of Washington, in the district of Columbia, in the United States of America. — Dated 25th March, 1859.

1003. John Alison, of Hainault Forest, Essex, Gentleman, for an invention of "An improved instrument for extirpating thistles, docks, and other deep-rooted weeds." — Dated 21st April, 1859.

1016. John Armstrong, of Sunderland, in the county of Durham, Timber Merchant, for an invention of "Improvements in drying and preserving timber."—Dated 23rd April, 1859.

1074. Arthur Boyle, of Birmingham, in the county of Warwick, Tool Maker, for an invention of "Improvements in the manufacture of certain parts of umbrellas and parasols."—Dated 28th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 22nd June*, 1859, *inclusive*).

20th June.

1471. George Riley, of No. 1, The Grove, in the parish of St. Mary, Lambeth, in the county of Surrey, for an invention of "An improved refrigerator for cooling brewers' and distillers' worts." —Dated 23rd June, 1856.

1513. Andrew Shanks, Engineer, 6, Robert Street, Adelphi, Westminster, for an invention of "Certain improvements in machines for drilling, boring, and cutting metals."—Dated 27th June, 1856.

21st June.

1468. Goldsworthy Gurney, of Bude, Cornwall, for an invention of "Certain improvements in warming and moistening air."—Dated 23rd June, 1856.

1529. Thomas Frederick Henley, of Bromley, in the county of Middlesex, for an invention of "An improved process for obtaining arrack or spirit from rice or other grain."—Dated 28th June, 1856.

22nd June.

1501. Gustave Dürrich, of Stuttgart, in the kingdom of Würtemberg, and of 77, Chancery Lane, in the county of Middlesex, for an invention of "Improvements in gas burners."—A communication. —Dated 26th June, 1856.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

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No. 572. TUESDAY, JUNE 28, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

154. JOHN FAWCETT, of Kingston-upon-Hull, in the county of the same town, Merchant, has given notice at the office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improved preparation of food for cattle and horses."

As set forth in his petition, recorded in the said office on the 18*th day of January*, 1859.

420. And WALTER RAYMOND, of No. 4, Albion Square, Dalston, in the county of Middlesex, Master Mariner, has given the like notice in respect of the invention of "An improved life-raft."

421. And JOHN PATERSON, of Wood Street, in the city of London, Manufacturer, has given the like notice in respect of the invention of "Improvements in brace buckles and loops and in braces."

As set forth in their respective petitions, both recorded in the said office on the 15*th day of February*, 1859.

428. And CHARLES EDWARD WRIGHT, of Nottingham, Commercial Traveller, has given the like notice in respect of the invention of "Improvements in means or apparatus employed in the nursing or treatment of infants."

As set forth in his petition, recorded in the said office on the 16*th day of February*, 1859.

441. And SAMUEL THOMAS COOPER, of Upper Clapton, Gentleman, has given the like notice in respect of the invention of "Improvements in the use and application of artificial light."

447. And FREDERICK WILLIAM EMERSON, of New Charlton, in the county of Kent, Mining Engineer and Metallurgical Chemist, has given the like notice in respect of the invention of "Improvements in the treatment of certain ores of lead, and obtaining from them valuable primary and secondary products."

449. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus for propelling and steering vessels, and other floating craft."—A communication from John Eaton, residing at Belleville, in the province of Upper Canada, Engineer.

As set forth in their respective petitions, all recorded in the said office on the 17*th day of February*, 1859.

465. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "An improved carding machine."—A communication from Victor Madeline Morin, residing at Athis, Orne, in the empire of France.

467. And FERDINAND PIERRE JEAN VAN DEN OUWELANT, of Paris, France, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatuses to be applied to fire places for obtaining a more complete combustion of the fuel employed therein."

As set forth in their respective petitions, both recorded in the said office on the 19*th day of February*, 1859.

471. And THOMAS WILSON, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture and construction of ordnance."

474. And PETER SPENCE, of Pendleton, in the county of Lancaster, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of alum, and in the mode of and apparatus for condensing or destroying gases arising therefrom."

475. And ROBERT JOBSON, of Wordsley, in the county of Stafford, Ironfounder, has given the like

notice in respect of the invention of "Improvements in supplying water or other fluid to axle tree boxes and other journal bearings to lubricate the same."

As set forth in their respective petitions, all recorded in the said office on the 21st day of February, 1859.

484. And JOSEPH HINE, of Clerkenwell, in the county of Middlesex, Fancy Cabinet Manufacturer, has given the like notice in respect of the invention of "An improved book slide."

486. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, has given the like notice in respect of the invention of "A method of fixing tannin upon textile fibres, and the employment thereof in dyeing black and dark colors."—A communication from M. Verguin, residing at Lyon, France.

As set forth in their respective petitions, both recorded in the said office on the 22nd day of February, 1859.

490. And SAMUEL RIDGE, of Hyde, in the county of Chester, Millwright, has given the like notice in respect of the invention of "Improvements in coupling or making the joints of pipes and other articles."

As set forth in his petition, recorded in the said office on the 23rd day of February, 1859.

500. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "A new metallic compound or alloy."

501. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement in the manufacture of cast steel."

504. And ADOLPHE LANÇON, junior, Watch Manufacturer, at Besançon, Departement du Doubs, empire of France, has given the like notice in respect of the invention of "A new system of watches."

As set forth in their respective petitions, all recorded in the said office on the 24th day of February, 1859.

512. And CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in electric telegraphs and apparatus, and in supports for electric telegraphic line wires."—Partly a communication from Werner Siemens, residing at Berlin, in Prussia.

513. And WILLIAM MCNAUGHT, of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Certain improvements in steam engines, particularly applicable to compound steam engines."

As set forth in their respective petitions, both recorded in the said office on the 25th day of February, 1859.

520. And JAMES LEE, of Saint Helen's, in the county of Lancaster, Grocer, has given the like notice in respect of the invention of "Certain improvements in ploughs."

As set forth in his petition, recorded in the said office on the 26th day of February, 1859.

523. And EDWARD GATWOOD, of Great George Street, Westminster, in the county of Middlesex, Carriage Builder, has given the like notice in respect of the invention of "Improvements in buffing, traction, and bearing springs, applicable to railway carriages and locomotive engines."

525. And ALEXANDER MARTIN, Merchant, and ALEXANDER CRICHTON, Mechanic, both residing in Pollokshaws, in the county of Renfrew, have given the like notice in respect of the invention of "Improvements in weaving and woven goods."

As set forth in their respective petitions, both recorded in the said office on the 28th day of February, 1859.

536. And EDWARD JOSEPH HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, has given the like notice in respect of the invention of "Improvements in preserving animal food, poultry, game, fish, fruit, and other similar substances."—A communication from abroad by Edward Gorges, of Paris.

539. And the Reverend HENRY MOULE, Clerk, Master of Arts, of Fordington, in the county of Dorset, has given the like notice in respect of the invention of "Improvements in apparatus applicable to the evaporation of sewage or other waters, and for affording heat for other uses."

As set forth in their respective petitions, both recorded in the said office on the 1st day of March, 1859.

553. And JOHN WILLIAM HARKER, of No. 24, Upper Barnsbury Street, Islington, and JOHN KINGSFORD FIELD, of Upper Marsh, Lambeth, have given the like notice in respect of the invention of "Improvements in coating the bottoms of iron and other ships and vessels."—A communication from abroad, by John Cooke Harker and Frederick Field, both of Chili.

As set forth in their petition, recorded in the said office on the 2nd day of March, 1859.

604. And CHARLES MILLS, of High Street, Camden Town, has given the like notice in respect of the invention of "Improvements in the action of pianofortes."

As set forth in his petition, recorded in the said office on the 8th day of March, 1859.

618. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in billiard tables."—A communication from abroad by Abraham Bassford, of New York.

As set forth in his petition, recorded in the said office on the 9th day of March, 1859.

693. And CHARLES LAMBERT, of Sunk Island, in the county of York, Farmer, has given the like notice in respect of the invention of "Improvements in corn and seed drills."

As set forth in his petition, recorded in the said office on the 18th day of March, 1859.

704. And WILLIAM and SAMUEL PICKSTONE, of Radcliffe Bridge, near Manchester, Cotton Spinners, Manufacturers, and Dyers, have given the like notice in respect of the invention of "An im-

provement in stiffening, sizing, filling, or weighting textile fabrics."
As set forth in their petition, recorded in the said office on the 19th day of March, 1859.

768. And Matthew Andrew Muir, of Glasgow, in the county of Lanark, North Britain, Machinist, and James McIlwham, of the same place, Machinist, have given the like notice in respect of the invention of "Improvements in moulding or shaping metals."
As set forth in their petition, recorded in the said office on the 26th day of March, 1859.

1098. And James Childs, of Windsor House, Putney, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the manufacture of night light cases."
As set forth in his petition, recorded in the said office on the 2nd day of May, 1859.

1143. And William Shakspere Booth, of Birmingham, in the county of Warwick, Undertaker, has given the like notice in respect of the invention of "A new or improved washing machine."
As set forth in his petition, recorded in the said office on the 6th day of May, 1859.

1156. And Walter Jeffery, of Eastgate Street, Gloucester, has given the like notice in respect of the invention of "Rendering more convenient outdoor manipulations in photography by means of an improved portable photographic tent and tent camera."
As set forth in his petition, recorded in the said office on the 7th day of May, 1859.

1189. And Daniel Foxwell, of the city of Manchester, in the county of Lancaster, Card Manufacturer, has given the like notice in respect of the invention of "Improvements in sewing machines and apparatus connected therewith."
As set forth in his petition, recorded in the said office on the 12th day of May, 1859.

1258. And Thomas Stokes Cressey, of Burton-upon-Trent, has given the like notice in respect of the invention of "Improvements in machinery for cutting staves for casks."
As set forth in his petition, recorded in the said office on the 21st day of May, 1859.

1288. And David Simpson Price, of 7, Green Street, Grosvenor Square, in the county of Middlesex, Analytical Chemist, has given the like notice in respect of the invention of "Improvements in the production of colors for dyeing and printing."

1291. And Alexander Prince, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the construction of ships and vessels."—A communication from abroad, by Hermann Hirsch, resident at Berlin, in the kingdom of Prussia.

1292. And Alexander Prince, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in screw propellors."—A communication from abroad, by Hermann Hirsch, resident at Berlin, in the kingdom of Prussia.
As set forth in their respective petitions, all recorded in the said office on the 25th day of May, 1859.

1302. And John Young, of Wolverhampton, in the county of Stafford, Manufacturer, has given the like notice in respect of the invention of "Improvements in locks, and in the manufacture of knobs for locks and latches, and also in apparatus for preventing draughts and keeping out wet from doors and windows."
As set forth in his petition, recorded in the said office on the 26th day of May, 1859.

1333. And Isaac Blackburn and Robert Blackburn, both of Long Eaton, in the county of Derby, Engineers, have given the like notice in respect of the invention of "Improvements in locomotive or traction engines, and in implements connected therewith for cultivating the soil."
As set forth in their petition, recorded in the said office on the 30th day of May, 1859.

1374. And Richard Chrimes, of Rotherham, in the county of York, Brass and Ironfounder, has given the like notice in respect of the invention of "Improvements in apparatus for supplying water to and discharging the contents from urinals, wash hand basins, and other similar articles."

1375. And Edward Gill, of the Elms, Saint Ann's Road, Wandsworth Common, in the county of Surrey, Distiller, has given the like notice in respect of the invention of "Improvements in producing spirit from rice, maize, and other descriptions of grain."
As set forth in their respective petitions, both recorded in the said office on the 4th day of June, 1859.

1396. And Joseph Bennett Howell, of Sheffield, in the county of York, Steel Manufacturer, John Hick, of Great Bolton, in the county of Lancaster, Ironfounder, and William Hargreaves, of the same place, Ironfounder, have given the like notice in respect of the invention of "Improvements in apparatus for applying heat to steam or other boilers or vessels, and for facilitating the combustion of gases and smoke."

1400. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in gas meters."—A communication from abroad by William Richards, of Barcelona, in the Kingdom of Spain.
As set forth in their respective petitions, both recorded in the said office on the 18th day of June, 1859.

1413. And Moses Haym Picciotto, of Finsbur Circus, in the city of London, Merchant, has given the like notice in respect of the invention of "Improvements in apparatus for producing or obtaining motive power."
As set forth in his petition, recorded in the said office on the 10th day of June, 1859.

1415. And JABEZ JAMES, of Broadwall, Lambeth, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in obtaining and applying motive power."

As set forth in his petition, recorded in the said office on the 11th day of June, 1859.

1431. And WILLIAM BROWN the younger, of the town and county of Selkirk, North Britain, Manufacturer, and SIMEON BATHGATE, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for carding and treating or preparing fibrous materials."

As set forth in their petition, recorded in the said office on the 14th day of June, 1859.

1451. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved kiln for brick and plaster burning."—A communication from Mr. A. Mombrun, residing in Paris.

1453. And EDWARD ADAMS CUTLER, of the state of Connecticut, of the United States of America, has given the like notice in respect of the invention of "A new and useful machine for making horse shoes."—A communication from Charles H. Perkins, a resident of Putney, of the said State of Connecticut.

As set forth in their respective petitions, both recorded in the said office on the 16th day of June, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

28th June, 1859.

2976. RICHARD DUGDALE KAY, of Accrington, in the county of Lancaster, Manufacturer of Patent Fabrics, for an invention of "An improved chemical means of applying or fixing on woven or felted fabrics certain colouring matters produced from tar.—Dated 29th December, 1858.

2989. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in washing and drying machinery and apparatuses.—A communication from S. Charles, residing at Paris.—Dated 30th December, 1858.

2990. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in revolving fire-arms.—A communication from L. F. Devisme, residing at Paris.—Dated 30th December, 1858.

2991. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in machines for embroidering."—A communication from B. G. Dutel, residing at St. Quentin, France. —Dated 30th December, 1858.

2992. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in machinery for splitting or dividing hides, skins, leather, and other like materials."—A communication from F. Martin, residing at Paris.—Dated 30th December, 1858.

2994. WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Engineers, for an invention of "Improvements in apparatuses for converting reciprocating into rotary motion."—A communication from G. Bancker, residing in New York.—Dated 30th December, 1858.

2996. JOHN KNOWELDEN, of Southwark, in the county of Surrey, Engineer, and RICHARD DOWNES EDWARDS, of Upper Belgrave Place, in the county of Middlesex, for an invention of "Improvements in hydraulic engines and apparatus connected therewith."—Dated 30th December, 1858.

3005. FREDERIC WILHELM ALEXANDRE CASPER and GUILLAUME HENRY SCHMAHL, both of No. 152, Rue du Faubourg St. Martin, Paris, for an invention of "Using spart or Spanish broom in manufacturing seats of all descriptions." —Dated 31st December, 1858.

3006. LOUIS A. NORMANDY, junr., of 67, Judd Street, London, for an invention of "A new system of shaft tugs."—A communication from a Foreigner now residing abroad.—Dated 31st December, 1858.

4. BENOÎT JOSEPH GOSTEAU, of 2, Rue Sainte Appoline, Paris, in the empire of France, and of 45, Essex Street, Strand, London, Merchant, for an invention of "An improved gridiron which may form a complete cooking-apparatus."—Dated 1st January, 1859.

5. JOSEPH EUGÈNE DROUOT, Baker, of 2, Rue Ste. Appoline, Paris, empire of France, and of 45, Essex Street, Strand, London, for an invention of "Improvements in bakers' ovens."——Dated 1st January, 1859.

9. JAMES GARFORTH, of Dukinfield, in the county of Chester, Engineer, for an invention of "Certain improvements in steam engines." — Dated 1st January, 1859.

11. Montague Wigzell, of Friar's Green, Exeter, in the county of Devon, for an invention of "An improved form of nail or driving article."—Dated 1st January, 1859.

22. Alexandre Louis Lévèque, of Paris, France, Gentleman, for an invention of "An improved apparatus for subduing or stopping run-away or restive horses."—Dated 1st January, 1859.

81. John Biers the younger, of No. 38, Rochester Road, Kentish Town, in the parish of Saint Pancras, in the county of Middlesex, Coach Maker, for an invention of "A self-acting carriage wheel break."—Dated 11th January, 1859.

98. William McNaught, of Manchester, in the county of Lancaster, Engineer, and William McNaught, of Rochdale, in the county of Lancaster, Engineer, for an invention of "Improvements in steam engines, and in apparatus connected therewith."—Dated 12th January, 1859.

145. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in the manufacture of cast steel."—Dated 17th January, 1859.

175. Thomas Greenwood and John Batley, of Leeds, in the county of York, Machine Makers, for an invention of "An improvement in the process of gassing textile fabrics."—A communication from H. Van den Berghe, residing at Rue de St. Georges, Courtrai, Belgium.—Dated 20th January, 1859.

178. Thomas Greenwood, John Batley, and Jacob Dockray, of Leeds, in the county of York, Machinists, for an invention of "Improved machinery for converting hemp and flax fibres into yarn, twine, ropes, and cordage."—Dated 20th January, 1859.

182. Henry Sagar, of Broughton, near the city of Manchester, in the county of Lancaster, Bleacher and Dyer, and Alexander Schultz, of Paris, in the kingdom of France, and of the city of Manchester aforesaid, Chemist, for an invention of "Improvements in producing pink shades on cotton fabrics or yarns."—Dated 20th January, 1859.

183. Thomas Richardson, of 20, New Bridge Street, Newcastle-on-Tyne, for an invention of "Improvements in the manufacture of manure."—Dated 21st January, 1859.

193. James Childs, of Windsor House, Windsor Road, Putney, in the county of Surrey, for an invention of "An improvement in applying heat in the manufacture of artificial gums and teeth, and other articles composed of india rubber or gutta percha combined with sulphur."—Dated 21st January, 1859.

223. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for cutting and shaping wood."—A communication from Peter H. Niles, residing at Boston, in the United States of America.—Dated 25th January, 1859.

262. Henry Watson, of High Bridge Works, Newcastle-upon-Tyne, for an invention of "Improvements in the manufacture of knotter plates used in the manufacture of paper."—Dated 28th January, 1859.

269. Henry Grissell, of Regent's Canal Iron Works, Eagle Wharf Road, in the county of Middlesex, Engineer, for an invention of "Improvements in machinery for moving ships and vessels on slips or inclined ways."—Dated 29th January, 1859.

295. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved blowing machine."—A communication from Mr. Antoine Louis Hyacinthe Fiefnet de Sauville, of Paris, in the empire of France, a foreigner residing abroad.—Dated 1st February, 1859.

509. Alexander Reid, of the city of Manchester, Merchant, and Richard Tonge, of the same place, Manufacturer, for an invention of "Certain improvements in weaving, and in the machinery employed therein."—Dated 25th February, 1859.

845. David Blair White, of Newcastle-on-Tyne, M.D., for an invention of "Improvements in arranging ships and other pumps."—Dated 4th April, 1859.

951. Hugh Adams Silver, of Cornhill and Bishopsgate Street Within, in the city of London, and Silver-Town, in the county of Essex, India-rubber Manufacturer, for an invention of "Improvements in insulating wire for electric telegraphs."—Dated 15th April, 1859.

996. Henry Rawson, of Leicester, for an invention of "Improvements in machinery for combing wool and other fibres."—Dated 20th April, 1859.

1073. William Alonzo Tompson, of 18, Cecil Street, Strand, in the county of Middlesex, and Weston Green, Thames Ditton, in the county of Surry, Surgeon and Apothecary, for an invention of "Improvements in apparatus for applying liquids to the throat and air passages for medical purposes."—Dated 28th April, 1859.

1119. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in steam boilers."—A communication from Samuel Pierce, of Troy, in the state of New York and United States of America.—Dated 4th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 24th June*, 1859, *inclusive.*)

23rd June.

1477. Edwin Hardon, of Stockport, in the county of Chester, Manufacturer, and Joseph Henry, of

the same place, Mechanic, for an invention of "Improvements in looms for weaving, and in machinery for communicating motion to looms and other machines."—Dated 24th June, 1856.

1526. Charles Armand Messager-Abit, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London, for an invention of "Certain improvements in the treatment of fibrous substances."—Dated 28th June, 1856.

24th June.

1495. Robert Wilson Chandler, of Bow, in the county of Middlesex, Engineer, and Thomas Oliver, of Hatfield, in the county of Hertford, Farmer, for an invention of "Improvements in engines employed for agricultural purposes."—Dated 25th June, 1856.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. 1.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February,* 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April,* 1626, *and* 23*rd July,* 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February,* 1620, *and* 2*nd May,* 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June,* 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset, Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent, No.* 347, *dated* 10*th January,* 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July,* 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August,* 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December,* 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March,* 1744.) Price 1*s.*

FOREIGN PATENTS.

BELGIUM.*

List of Patents of Invention Delivered on the 16th June, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 567 of this Journal.)

7442. P. L. M. Debain, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "Obtaining motive power by means of heat."—Dated 20th April, 1859.—(French Patent, 12th April, 1859.)

7526. B. de Smet, of St. Antelinckx, for "A thrashing machine."—Dated 6th May, 1859.

7582. A. Pomme de Mirimonde, represented by J. Piddington, of Brussels, for "Apparatus and processes for obtaining sets of teeth of vulcanized india-rubber."—Dated 23rd May, 1859.

7583. P. Fromont, of Chatelineau, a Patent of Improvement for "A delivery-cock."—Dated 25th May, 1859.—(Original Patent, 12th June, 1858.)

7584. G. L. Vanderspeeten, of Ghent, for "A keyboard system of reading (looms)."—Dated 23rd May, 1859.

7585. D. de Broux, of Ramillies-Offus, for "An apparatus for working mines."—Dated 25th May, 1859.

7586. J. Fermont-Vanwaesberghe, of Lokeren, for "An apparatus for making vinegar."—Dated 25th May, 1859.

7587. S. Pierce, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in steam-boilers."—Dated 25th May, 1859.—(American Patent, 5th April, 1859.)

7588. A. J. Sax, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "Improvements in brass instruments."—Dated 25th May, 1859.—(French Patent, 3rd January, 1859.)

7589. F. Vennin-Dérégniaux, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for cleaning copper shavings." Dated 25th May, 1859.—(French Patent, 19th March, 1858.)

7590. G. J. J. Laury, represented by H. Biebuyck, of Brussels, for an imported invention of "A

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* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

system of sheaths applicable to dresses."—Dated 25th May, 1859.—French Patent, 19th May, 1859.

7591. L. Le Chatelier, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Manufacture of alumina."—Dated 25th May, 1859.—(Original Patent, 8th September, 1858.)

7594. H. De Gruytter, of Brussels, for "A metal or wooden linear instrument."—Dated 26th May, 1859.

7595. F. De Caluwe, of Brussels, a Patent of Improvement for "A system of fastening show windows."—Dated 26th May, 1859.

7596. J. B. Pascal, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in hot-air generators and engines."—Dated 26th May, 1859.—(French Patent, 20th May, 1859.)

7597. F. Bangert, of Floreffi, for "Using fine or granular pyrites in the manufacture of sulphuric acid."—Dated 26th May, 1859.

7598. J. M. Colombon, of Liége, for "A system of lamps for burning mineral oil."—Dated 27th May, 1859.

7599. J. C. Botty, of Liége, for "A machine for cutting and pulverizing tobacco."—Dated 30th May, 1859.

7600. J. Laubereau, represented by A. Angot, a Patent of Importation for "A motor worked by means of heated and cool air, with a single and double action."—Dated 28th May, 1859.—(Original Patent, 7th January, 1859.)

7601. H. de Gruytter, of Brussels, a Patent of Improvement for "A linear instrument."—Dated 26th May, 1859.—(Original Patent, 26th May, 1859.)

7602. W. H. Harfield, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in capstans or windlasses."—Dated 28th May, 1859.—(English Patent, 23rd August, 1858.)

7603. G. Dallemagne, of Sclessin, for "A system of fixed grates and removing slags from the bars."—Dated 30th May, 1859.

7604. J. Blethyn, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in the manufacture of artificial fuel."—Dated 30th May, 1859.—(English Patent, 11th November, 1858.)

7605. J. Clegg, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in lubricating clack valves and pistons of steam engines."—Dated 30th May, 1859.—(English Patent, 17th December, 1858.)

7606. P. Van Hercke, of Ostend, a Patent of Improvement for "An apparatus for preventing the smoke of chimneys from being driven back into apartments."—Dated 1st June, 1859.—(Original Patent, 8th November, 1858.)

7607. J. P. Houget, of Verviers, for an imported invention of "A system of ventilators."—Dated 1st June, 1859.

7608. S. Thomson, of Brussels, for "A system of zinc windows or sashes."—Dated 31st May, 1859.

7609. L. C. Bureau, represented by A. Crooy, of Brussels, for an imported invention of "A system of heating and ventilating furnaces used for industrial purposes."—Dated 31st May, 1859.—(French Patent, 9th April, 1859.)

7610. J. Zelis, represented by H. Biebuyck, of Brussels, for "Manufacture of economical manure."—Dated 31st May, 1859.

7611. J. F. Miguel, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "A truss."—Dated 31st May, 1859.—(French Patent, 28th May, 1859.)

7612. F. Ludewig, represented by O. Daillencourt, of Brussels, for an imported invention of "Manufacture of yeast."—Dated 31st May, 1859.—(French Patent, 8th January, 1859.)

7613. F. Botta, represented by D. de Vos-Verraert, of Brussels, for "A direct mode of returning steam to generators."—Dated 1st June, 1859.

7614. L. Stevenaux, represented by A. Crooy, of Brussels, a Patent of Improvement for "A system of drying stoves, being a substitute for malt-kilns."—Dated 1st June, 1859.—(Original Patent, 6th March, 1858.)

7615. L. Janssens, of Antwerp, for "A system of hats."—Dated 1st June, 1859.

7616. Grenié and Ladevèze, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in converting common fire-arms into breech-loading arms."—Dated 3rd June, 1859.—(French Patent, 30th September, 1858.)

7617. E. Charles and Pirotte and Co., represented by A. Anoul, of Ixelles, for "A system of smoke-consuming graduated grates."—Dated 3rd June, 1859.

7618. J. Delporte, of Tournai, for "Retorts for distilling coal."—Dated 6th June, 1859.

7619. L. F. Devisme, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Revolvers."—Dated 31st May, 1859.—(Original Patent, 27th November, 1854.)

7620. F. Bouquié, represented by P. Bouquié-Lefebvre, of Saint Josse-ten-Node, for an imported invention of "Propelling and loading boats on canals and rivers."—Dated 6th June, 1859.

7621. H. R. L. Schramm, represented by P. Bals, of Brussels, for "An apparatus for simultaneously pressing and separating the fibres of the pellicules contained in beetroot, grain, potatoes, &c."—Dated 6th June, 1859.

7637. D. Marchal, of Brussels, for "A process and apparatus for ranging solid bodies, such as ores, sands, clay, soil, grain, &c., according to their specific weight, by means of a current of water or ascensional air."—Dated 10th May, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 7th June, 1859, and each bearing that date.

No. 24,270. JAMES ALBRO, of Elizabeth, N. J., for an "Improvement in printing oilcloths."

"What I claim is, forming ornamental figured surfaces on oilcloth by raising parallel ridges or surfaces *b* on the ground colour, when in a soft or green state, by means of a properly prepared block pressed upon it, and then forming parallel ridges or raised surfaces *d* at right angles thereto, and in the form of the design or desired configuration, by means of a properly prepared block, it being understood that I claim the privilege of having either the ground *b* or figure *d*, one of them only if desired, composed of dots, or broken lines, or ridges, in order to obtain a similar effect."

No. 24,271. D. HILLEN ARMOUR, of Columbia, Texas, for an "Improvement in breakwater."

"What I claim is, the projecting or overhanging sand-plate F, applied in combination with the diagonal walls of the breakwater, substantially as and for the purpose herein described."

No. 24,272. DANIEL S. AYRES, of Hope, N. J., for an "Improved washing machine."

"What I claim, and desire to secure by Letters Patent, is the revolving and movable disks or heads, with the mode of operating the same, as applied to washing machines."

No. 24,273. J. A. AYRES, of Hartford, Conn., for an "Improved device for raising water."

"I claim the wind wheel H, vane G, endless chain J, with buckets *d*, and weight L attached, the cylinder C, and annular receiving trough D, the whole being arranged and combined for joint operation substantially as and for the purpose set forth."

No. 24,274. THOS. BAILEY, of New Orleans, La., for an "Improvement in revolving fire-arms."—(Patented in England 17th January, 1859.)

"What I claim is, first, the placing of the within-named working or actuating means within the body, as herein set forth. Secondly, the revolving chamber, working on two adjustable centers of suspension instead of in the ordinary way. Thirdly, the mode described of connecting the barrel to the body. Fourthly, the stopping or retaining of the revolving chamber by means of a spring stop acting on the ratchet, such stop being actuated by a cam on the tumbler. Fifthly, the notch or cavity in the cap guard, or cock nose, to fit upon the solid part of the chamber and retain the chamber in a safe position."

No. 24,275. JOHN B. BAKER, of Syracuse, N. Y., for an "Improvement in bridle bits."

"What I claim is, the attachment, as described, of sliding rings or rein-connections (P), to the curb bars of bridle bits, when the same are operated upon by springs attached to the bit, substantially in the manner and for the purpose set forth."

No. 24,276. HENRY BEDLOW, of Newport, R. I., for an "Improved chimney cowl."

"I claim the arrangement and combination of the chimney-top or tube A, chamber F, tubes G, or other external draught passages and deflectors *b*, *b*, *c*, c^1, C, the tube chamber and draught passages communicating with each other and the external air to operate as and for the purpose set forth."

No. 24,277. N. BOARDMAN, of Fond du Lac, Wis., for an improved method of sawing shingles from the bolt."

"What I claim is, 1st, the employment or use of two bolt carriages F, F, when used in connection with the adjustable planes H, and arranged in the relation with the circular saw C as shown, so that a shingle may be sawed from each bolt at each movement of its carriage, and the two bolts operated upon simultaneously by one and the same saw. 2nd, the adjustable or tilting tracks, or bolt frames E, E, in combination with the reciprocating carriages F, F, and saw C, the whole being arranged to operate substantially as and for the purpose set forth."

No. 24,278. JEHU BRAINARD and W. H. BURRIDGE, of Cleveland, O., for an "Improvement in tanning."

"What we claim as our improvement, and desire to secure by Letters Patent of the United States, is, the herein-described process of treating skins or hides in a preparation liquor or liquors, substantially as set forth for the purposes described."

No. 24,279. JOHN M. BRUNSWICK, of Cincinnati, O., for an "Improved pocket handle for billiard tables."

"I claim the pocket handles (A, A^1,) arranged and secured substantially as described, and formed of vulcanized gutta percha, or india rubber, as a new article of manufacture, for the purposes set forth."

No. 24,280. F. A. CALVERT and CHAS. G. SARGENT, of Lowell, Mass., for an "Improvement in machines for burring wool and ginning cotton."

"What we claim as our invention, and desire to secure by Letters Patent, as an improvement in machines for burring wool and ginning cotton, is, a cylinder, having spaces between the teeth, for the accommodation of the seed, as set forth, in combination with a revolving guard, operating in the manner substantially as described."

No. 24,281. J. C. CLAPP, of Seneca Falls, N. Y., for an "Improvement in corn huskers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination and arrangement of the carriage B, fly clearer *a*, cross lever H, concaves and gauge F, E, blade L, and tread lever J, operating conjointly, substantially as and for the purpose set forth."

No. 24,282. DECIUS W. CLARK, of Bennington, Vt., for an "Improvement in enamel compositions for bricks, &c.

"What I claim is, the enamel or glaze, for pottery ware, or other articles formed of the ingredients, and substantially as specified."

No. 24,283. S. C. COFFIN, of Lawrenceville, Pa., for an "Improved method of jointing shingles."

"What I claim is, so combining with the horizontal saw B, that saws the shingle from the bolt, the transverse piece, J, and carriage K, upon it, so that the same saw that cuts the shingles from the bolt may be used for jointing said shingles, as herein set forth and explained."

No. 24,284. ENOCH COLVIN, of Poultney, Vt., for an "Improvement in knitting machines."

"What I claim, is, 1, the combination of the needle arm (*d*,) and the iron rim upon the ring (*e*), constructed as above described for raising each needle by itself, and completing each stitch before another is begun. 2, the cylinder (*o*) for reversing and regulating the motion of the machine, while forming the heel and toe. 3, the combination of the notched wheel (*t*), the toothed bar (*u*), with its pointer (*v*), the cylinder (*o*), the elevating arm (*u*), the elevating bar (*S*), and cam thereon, and the pin on the wheel (*l*), by means of all which the motion of the machine is reversed back and forth, and regulated so as to knit upon a straight hose flaps of the proper form for the heel and toe. 4, the wheel (*p*) and the elevating arm (*r*), combined with the several parts and devices mentioned in the last preceding claim, or paragraph, as above described, for setting in motion at the proper juncture the machinery for regulating the formation of the flaps for the heel and toe."

No. 24,285. David Conlan, of New York, N. Y., for an "Improved light shade for billiard tables."

"I claim, and desire to secure by Letters Patent, as an improved article of manufacture, a shade for billiard tables, &c., having two reflecting parts B', B'', and otherwise made as herein shown and described."

No. 24,286. Thos. Crane, of Fort Atkinson, Wis., for an "Improvement in rakes."

"What I claim as my invention, and desire to secure by Letters Patent, is, my improved harvesting rake for gathering and elevating cut stalks of grain preparatory to binding the same into sheaves; when the said rake is composed of side handles, gathering fingers, and swinging legs, or the equivalents of the same, substantially as herein set forth."

No. 24,287. Thos. Dougherty, of Macon, Geo., for an "Improved lock."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the spring tumblers, C, D, and E, when constructed and operated in the manner described, in connection with the bolt B, the said springs being detained by the key to let the bolt slide, as specified."

No. 24,288. Daniel Du Pré, of Raleigh, N. C., for an "Improved chain pump."

"What I claim is, 1st, the endless chain for raising water, composed of the curved detachable links M, when said links are constructed and united in the manner and for the purposes set forth. 2nd, keeping the chain stiff between the upper and lower pulleys by means of projections R, on the links, substantially as and for the purpose set forth. 3rd, the combination of the curved links M with the peculiarly shaped curved buckets N, when constructed and operated substantially in the manner and for the purposes set forth."

No. 24,289. Wm. B. Dunning, of Geneva, N. Y., for an "Improvement in railroad chairs."

"What I claim, therefore, is as follows: 1, I claim the peculiar form of a partly raised and double-slotted bed plate, as described. 2, I claim, also, the peculiar form and position of the clamps, one part of them being confined and borne down on the tie by the weight of the rail and all above it, and the other part, viz., the jaw resting upon the flange of the rail and holding it fast. 3, I claim the combination of the several parts as above described, or their mechanical equivalent."

No. 24,290. James Fay, of Baltimore, Md., for an "Improvements in hydrants."

"I claim the arrangement of the stock L, and chamber P, as constructed, with the india rubber ball F, rod E, opening in the top of box I, nut G, spring J, valve stem *n*, valve *m*, and thimble H, the several parts being used, and operating conjointly, substantially in the manner and for the purpose herein specified."

No. 24,291. Wm. Field, of Providence, R. I., for an "Improvement in horse power machines."

"I claim arranging and supporting a hollow driving shaft, and the driven shaft passing through the driver, substantially as described, whereby both driver and driven shaft turn in the same direction, and both ends of the driver are fully supported by boxes, independent of the shaft passing through it, while at the same time the bearing of the shaft passing through the hollow driver will be on the driver only, at a point directly opposite its journal, so that any slight displacement of either shaft will not cause them to bind on each other, so as to increase the friction of the machine."

No. 24,292. Archibald Ford, of Newport, Ky., for an "Improvement in machinery for opening old rope."

"I claim the elevated bar *k*, provided with cavities *k*, *k*, arranged in the described relation to the feed mechanism and drum, and operating in combination with the latter, to preparatorily open the butts of the rope, as set forth."

No. 24,293. Geo. P. Frick, of Baltimore, Md., for an "Improved mode of starting city railroad cars."

"What I claim is, the application of a lever, acting temporarily upon the axle of a railway carriage or other wheeled vehicle, in combination with the pulley and chain, substantially as set forth, and whether the pulley is of uniform or different diameters, as described. I also claim such lever, in combination with the ratchet wheel and catch, substantially as set forth, in their application to a railway or other wheeled vehicle. I also claim the cord, whereby the lever may be loosened from the catch at the will of the driver, in combination with the said lever and catch, pulley, and chain, when applied to a railway carriage or other wheeled vehicle. I also claim the combination of the catch and ratchet wheel with the chain and weight described in the foregoing specification, whereby the engaging and disengaging of the catch is operated by the motion of the draft bar, substantially as described."

No. 24,294. Felix Gelin and Chas. Gelin, of New York, N. Y., for an "Improvement in legs for pianos."

"What we claim is, the glass socket F, so mounted in the legs of musical instruments, that the escape of sound from the instrument to the floor is checked without injuring the appearance or endangering the strength and durability of the instrument."

No. 24,295. T. W. Gibbons, of Franklin, N. J., for an "Improvement in money boxes for stages, &c."

"What I claim, is, 1st, the box A provided with the drawers B, D, the former having a flap or door *h* in its bottom and arranged to operate substantially as and for the purpose set forth. 2nd, the change slide or plate G, one or more used in connexion with tubes *s*, and arranged relatively with drawer B, to operate substantially as and for the purpose set forth. 3rd, in combination with the drawers B, D, and change plate or plates G, the bell *g*, and index *n*, and dial *o*, arranged substantially as and for the purpose set forth."

No. 24,296. David Glover, of Township of Cass, Schuylkill County, Pa., for an "Improved safety cage for coal shafts."

"I claim the construction of the cage in two separate sections separated at the guides, and so connected by hinges at the top of the bottom of the sill, that when the rope or chain used in hoisting brakes or the power ceases to operate, the cage shall open at the top, where the sections are joined, and the height and weight of each section shall operate as a lever and weight, to force the iron shoe on the ends of the sills, and pieces 'B,' 'B,' powerfully against and into the guides, and by this means entirely prevent the dropping of the cage and car down the shaft."

No. 24,297. Robt. Greaves, of Philadelphia, Pa., for an "Improvement in cleaning spinning mule carriage tops.'

"What I claim is the within-described mode of cleaning mule carriage tops, or any mechanical equivalent therefor."

No. 24,298. W. L. Gregory, of Theresa, N. Y., for an "Improvement in wind wheels."

"I claim the arrangement of the main vane K, and the regulating vane L, to operate in combination with the wings E, substantially as and for the purpose described."

No. 24,299. Albert C. Griswold, of Hartford, Conn., and Wait R. Griswold, of Durham, Conn., for an "Improved rocking carriage."

"What we claim, therefore, is, the employment of the rockers A, in combination with the seats or cribs B, as and for the purpose described. Also, the railway track or framework D, with the cords or rods E, springs F, when used as and for the purpose described. Also, the employment of the elastic substance H, attached to the rocker, for the purpose as described."

No. 24,300. John W. Harris, of Durhamville, N. Y., for an "Improved paddle wheel."

"I claim constructing paddle wheels for boats, in such a manner that the paddles may be folded laterally upon the frame, and the wheel thereby withdrawn from projecting beyond the sides of the boat, or extended at pleasure, whether the boat be in motion or at rest, the paddles (H) being connected to the framework (A & D), substantially as descaibed, and their outer edges of the form shown, the whole operating substantially as set forth."

No. 24,301. Wm. A Hawkes, of Corinth, N.Y., for an "Improvement in rotating dumping car."

"I claim the arrangement and combination of the rotating platform *c*, provided with dumping boxes L, with the shaft K, and gearing D, E, H, (*b*), G, (*i*), (*v*), (*m*), and the clutches (*d*, *j*), substantially as herein shown and described, so that the car may be propelled, and the dumping boxes rotated by turning shaft K, as desired, all as set forth."

No. 24,302. Henry W. Henly, of New York, N. Y., for an "Improved mattress."

"I claim the use or employment of the serrated section B, B, when the same shall be combined for the purpose specified."

No. 24,303. J. Herald and C. B. Tompkins, of Trumansburg, N. Y., for an "Improvement in harrows."

"We claim the arrangement of the plates B, B^1, with recesses a, a^1, and b, b^1, and projections c, c^1, and with a hole in their center for the purpose of securing the bars A, A^1, and the tooth C, substantially in the manner specified."

No. 24,304. Chas. Hewitt, of Trenton, N. J., for an "Improved machine for moving iron at the rolls."

"I claim the movable floors, platforms, or supports A, B, for moving iron or other metal at the rolls, while in process of manufacture, constructed and operated as herein described or otherwise, substantially the same."

No. 24,305. Gideon Hotchkiss, of Windsor, N.Y., for an "Improved machine for working butter."

"I claim the combination of the lever stem ladle and oblong bowl, by means of the revolving joint, the projecting cope and follower ladle, substantially as described."

No. 24,306. Wm. H. Howard, of Philadelphia, Pa., for an "Improvement in loom temples."

"I claim the rollers D and D^1, turning in bearing or steps, arranged to yield independently of and in contrary directions to each other, on the opening of the warp threads, substantially as and for the purpose herein set forth."

No. 24,307. Enoch Jacobs, of Cincinnati, O., for an "Improvement in the construction of prisons."

"I claim a secret passage or guard chamber around the outside of an iron plate jail, and between said jail and a surrounding enclosure, constructed and arranged substantially as described, for the purposes set forth."

No. 24,308. Joseph K. Kilbourn, of Pittsfield, Mass., and Edwd. E. Kilbourn, of Litchfield, Conn., for an "Improvement in manufacturing knitted fabrics."

"We claim the new knitted fabric herein described, composed of columns of stitches oblique to each other, having openings at the places where the oblique columns of stitches diverge, the same being a new article of manufacture."

No. 24,309. T. E. King, of West Andover, Ohio, for an "Improved saw filing machine."

"I claim the suspending the file holder upon arms, as herein set forth, so that it is susceptible of adjustment horizontally, vertically, and obliquely, and in combination with the curved faced slot in the holder, as described."

No. 24,310. Josiah Kirby, of Cincinnati, Ohio, for an "Improved bung cutter."

"I claim the mode of pointing the lower or last end cut off the plug or bung, by forcing it into a separate dog, made and used substantially and for the purpose as described. I also claim the mode of lifting the plug out of the dog, after it has been compressed by means of rod G^1, when operated in the manner and for the purpose described. I also claim the mode of driving the plug out of the cutter into the compressing dog by movable rod as at a, Fig. 3, when operating in the manner and for the purpose described."

No. 24,311. Suspended.

No. 24,312. Alexr. Le Mat, of New Orleans, La., for an "Improvement in adjustable hammer for revolving fire-arms."

"I claim providing the hammer with a hinged head, so arranged that it shall present the same face in different directions, for the purpose of discharging in succession different barrels, or a grape shot pistol and a revolving fire-arm, as may be desired, and providing the same with small lateral wings for locking the revolving chambers in position, in the manner and for the purposes herein set forth."

No. 24,313. Alexr. Le Mat, of New Orleans, La., for an "Improvement in automatic finger for closing the vent of cannons, &c."

"What I claim is, 1st, the apparatus B and B^1, with the automatic finger C, substantially as described. 2nd, the inclined plane H, in the manner and purpose described, or as an equivalent, the inclination of the slot of the percussion lock, for the purpose set forth."

No. 24,314. John Lemman, of Cincinnati, O., for an "Improved machine for sawing circular bevels."

"What I claim is, the adjustable rest (e), hinged to the bed (f), in the manner described, and adjustable vertically with reference thereto, substantially as and for the purposes set forth."

No. 24,315. H. J. Lombaert, of Philadelphia, Pa., for an "Improvement in compound railroad axles."

"What I claim is, the divided tubular axle (A and A^1) and the solid undivided center piece or mandrel (C) when the same are constructed and combined together with each other and with the wheels (B and B^1), so that the two said tubular parts (A and A^1) shall project through their respective wheels, and form their journals, and also rotate out of contact and independently of each other, substantially in the manner and for the purposes set forth and described."

No. 24,316. Warren S. Low, of Albany, N. Y, for an "Improvement in furnace grate bars."

"What I claim is, the combination of the corrugated and circular removable face piece C, with the body A, of a furnace grate bar, in the manner and for the purposes herein set forth."

No. 24,317. Wm. J. Lyman, of Easthampton, Mass., for an "Improved shoe sole."

"What I claim as new, and desire to secure by Letters Patent is, the use, or application, or employment of a metallic insoles to shoes, boots, &c."

No. 24,318. H. H. Luther, of Warren, R. I., for an "Improvement in harvesting machines."

"What I claim is, 1st, attaching the finger bar P, to the frame J, suspended on the shaft k, and fitted between bars j, j, on frame G, and arranged on shaft H, substantially as shown, so that the finger bar and sickles may, when necessary, be elevated, placed directly over the main wheel and shaft, as described. 2nd, adjusting the finger bar D and sickles r, r, in a more or less inclined position, in order to cut the grass or grain the desired height, by having the finger bar attached to a circular frame G, fitted on the arm of the driving wheel F, and secured at the desired point by means of the lever I, and projections, or any equivalent fastening. 3rd, the arrangement and combination of the frames J, G, applied to the driving wheel F, in connection with the gearing w, t^1, t^1, u, and v, v, respectively, on the wheel F, shafts t, t, and in the frame J, substantially as and for the purpose set forth."

No. 24,319. Robt. Marcher, of New York, N.Y., for an "Improvement in burnishing mouldings."

"What I claim is, attaching a self-adjusting burnisher I, to a reciprocating plate or carriage C, when used in connection with a moulding N suspended and attached to the machine, in the manner as shown, or in any equivalent way, to admit of being acted upon by the burnisher, for the purpose set forth."

No. 24,320. W. S. Mayo, of New York, N.Y., for an "Improvement in machines for finishing bricks."

"What I claim is, the combination of the box A, plunger B, and plates k, with or without the feed block F, substantially as and for the purpose set forth."

No. 24,321. Chas McBurney, of Boston, Mass., for "Improvements in the manufacture of india-rubber blankets, or aprons, used in the printing of fabrics, books, &c."

"What I claim is, bringing the blanket to a uniform thickness and smooth surface, by passing it between a revolving emery roll, and a revolving feed roll, so arranged with respect to each other that the surface of the feed roll shall be ground by the emery wheel, as set forth, and for the purpose specified."

No. 24,322. J. W. McLean, of Lebanon, Ind., for an "Improvement in rotary harrows."

"I claim the combination of the within specified obliquely set teeth, with two or more harrow frames revolving in opposite directions, substantially as and for the purpose set forth."

No. 24,323. Saml. J. Reeves, of Philadelphia, Pa., and Montgomery C. Meigs, of Washington, D.C., for an "Improvement in truss for roofs, bridges, &c.

"We claim the mode of trussing, or stiffening a curved or arched beam or rafter, for bridges, or roofs, by means of tension rods, or ties of metal, wood, or other suitable material, connected at their outer ends with the arched or curved beam or rafter, at various points, and converging towards and connected together at their inner ends, at a point within the space contained between the arc, or arched, or curved beam or rafter, and the straight line joining its extremities, substantially as above described, and as represented in the drawing and model herewith."

No. 24,324. James S. Moody, of Cincinnati, Ohio, for an "Improvement in sewing machines."

"I claim the employment of an endless belt, arranged and operated as described, to carry one or more hooks, to draw the thread through the cloth in the manner described. I claim the tension collar G, embracing the thread and needle, and operating to hold the thread in the manner herein set forth. I claim alternately holding and releasing the double pointed needle, by means of sliding keys *c* and c^1, operating so as to pass through notches *d*, *d*, towards the ends of said needle, at the proper times, arranged and operating substantially in the manner herein set forth."

No. 24,325. M. Newbauer and P. Adelman, of New York, N. Y., for an "Improvement in apparatus for drying glue."

"What we claim is, the arrangement of a chamber of circular or polygonal form, which is provided with a fan blower, or its equivalent, to which air of the proper temperature is conducted by means of a pipe *b*, and tube E, for the purpose of drying the cakes of glue, substantially as described."

No. 24,326. Wm. Oldman, of Buffalo, N. Y., for an "Improvement in steam boilers."

"What I claim is, the central water space F^1, in the combustion chamber F, arranged in relation to the annular water space F^{11}, and to the tubes D, or their respective equivalents, substantially as within set forth, for the purpose of inducing an active circulation of the water, radially among the tubes, with the advantages above explained."

No. 24,327. Stuart Perry, of Newport, N. Y., for an "Apparatus for exhibiting stereoscopic pictures."

"What I claim is, first, a movable framework for holding a series of stereoscopic pictures, from which the pictures are brought to be inspected, and then returned to it again by a mechanism operated by the user, substantially as described. I also claim bringing each individual picture, or pair of pictures, in succession to the same point or place before they are projected from their compartment to be exhibited by mechanism, substantially such as described. I also claim in combination with a movable picture holder, a reciprocating carrying frame that catches each picture or pair of pictures in succession, and carries them to the place where they are to be inspected, and returns them to their compartment again, substantially as described. I also claim in combination with a box or case, containing within it a series of pictures and a mechanism for projecting them from said case, a framework on the outside of said box or case for receiving said pictures, substantially as described. I also claim the slots in the picture-holder carrier *f*, and in the box or case, so that the picture from its compartment in the picture holder may be projected through both slots or openings to the outside of the box, substantially as described. I also claim the friction brake *t*, or its equivalent, for holding the picture holder, and prevent it from moving until started by the crank, substantially as described. I also claim making the frame B in sections, or with an opening, for the purpose of introducing the pictures through said frame into the compartments of the picture holder, as well as removing them therefrom, substantially as described. I also claim the clamps as applied to single or double pictures for the purpose of strengthening them, preventing their warping or bending, and thus facilitating their passage through the slot, which they must pass through to the place where they are exhibited, as described."

No. 24,328. Edward L. Perkins, of Roxbury, Mass., for an "Improvement in machinery for drying paper."

"What I claim is, a new mode of drying paper, which consists in feeding the paper from a roll outside of the drying chamber through proper openings to a series of rollers, arranged as described, and then conducting it over said rollers vertically through the apparatus, and subjecting it during its passage there through to a gentle current of heated air, produced by forming inlets at the bottom of the reception of the atmospheric air, which passes up and is heated by a suitable heating apparatus, and escapes readily through apertures at the top, as set forth, and then out of the drying chamber through proper openings to a receiving roller, in the manner substantially as described."

No. 24,329. John Pfaff, of Philadelphia, Pa., for an "Improvement in tail pieces for violins."

"I claim the metal tail piece A with an eye *a*, adapted to the detachable pin *h*, recesses 1, 2, 3, and 4, for the reception of the strings, and with the rib *h*, the whole being constructed and applied to a violin, substantially as and for the purpose herein set forth."

No. 24,330. Sam'l M. Richardson, of New York, N. Y., for an "Improvement in cutting out strap hinges."

"What I claim is, the relieving die *d*, in combination with the shaping die *f* and cutter *g*, in the manner and for the purposes specified."

No. 24,331. J. Hall Rohrman, of Philadelphia, Pa., for an "Improved dust pan."

"What I claim as a new article of manufacture, and desire to secure by Letters Patent, is, a dust pan, having its bottom corrugated, and its back edge seamed over, substantially as herein-before described, for the purposes of making the bottom of the pan rigid, without extending any brace from the handle, and rendering unnecessary the wiring of the back edge of the pan."

No. 24,332. Chas. B. Sawyer, of Fitchburg, Mass., for an "Improvement in furnaces and stoves."

"What I claim is, first, the arrangement of the closed topped fire pot K, gas or combustion chamber X, fire or draft flues H, small gas openings *e*, and air-heating flues G, in relation to each other, substantially as shown and described. Second, the arrangement of the horizontal ventilating flue J, ventilating chamber I, and exit ventilating flue *o*, and right-angled draft flue F, in relation to each other, and in the top of the furnace, as shown and described."

No. 24,333. Geo. Schott and John Loudon, of New York, N. Y., for "Improved spring bedstead bottoms."

"What we claim is, the arrangement of the eyes *d*, *d* elastic cord or strap (1), and hooks 2, 2, on the ends of the slats (*c*, *c*,) substantially as and for the purposes specified. We also claim the studs 3, 3, and 5, 5, constructed and acting as specified to sustain the slats *c*, *c*, on the strap or elastic cord 4, as set forth."

No. 24,334. Joseph Sedgebeer, of Cincinnati, O. for an "Improvement in grinding mills."

"What I claim is, 1st, constructing the rotating plate (A), with the same dress or finish upon its grinding face as that of the stationary plate (B), substantially as described for the purposes set forth. 2d, I claim the diamond-shaped teeth (*a*, *b*, *c*, *e*,) constructed and arranged substantially as and for the purposes set forth."

No. 24,335. Chas. W. Seeley and Benjn. F. Locke, of Wellington, Ohio, for an "Improved means of securing the bits of bench planes."

"What we claim is, stopping the upper end of the interposed bit below the screw, and upsetting it, so as to catch into the cross serrations in the bed piece, as set forth."

No. 24,336. M. Semple, of Philadelphia, Pa., for an "Improvement in mode of switching off R. R. cars from one track to another."

"I claim the immovable switch or turnout (I, P), in combination with the guide bars (G), when arranged and operating substantially as described."

No. 24,337. Peter Shank, of Jefferson Township, Ohio, for an "Improved machine for raising water."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the horizontal float wheel, the crank motion, as produced by the three pins, which gives six motions of the pump to one revolution of the wheel, and the horizontal double pump, substantially as described for raising water."

No. 24,338. Dexter C. Slater, of Lawrens, N.Y., for an "Improvement in operating machinery by dog power."

I claim the arrangement and combination of the wheel G, shaft F, cam H, and lever I, substantially, as and for the purpose set forth."

No. 24,339. De Witt Stevens, of Newark, N. J., for an "Improved cheese cutter."

"I claim, 1st, the arrangement of the platform B with the projecting rings *g*, to operate in combination with the corrugated cutting edge of the knife, substantially as and for the purpose described. 2nd, the arc D, arranged in combination with the platform B, with the handle C, and with the knife F, so that the cheese on the platform can be cut up in slices of any given weight, substantially as set forth. 3rd, the arrangement and combination of the lever I, the link J, and the slide G, for the purpose of operating the knife F, substantially as herein specified."

No. 24,340. W. D. Tewksbury, of Cuylersville, N.Y., for an "Improved rocking cradle."

"I claim the two escapement wheels *h* and *k*, arranged in combination with the verge E, and with the arm F, and operating substantially in the manner and for the purpose described."

No. 24,341. Alfred Tichenor, of Newark, N.J., for a "Method of printing bank notes."

"I claim 1st, the making bank notes and other engraved plates or sections of plates with tongue and groove or dowel joints. 2d, the locking together tongue and grooved bank note or other engraved plates, by a 'chase' having its side formed with tongue or groove or with dowels made to match or correspond to the ends and sides of the tongue and grooved plates, which chase is made in pieces fitted together, and furnished with set screws *e*, *e*, substantially as described."

No. 24,342. Ruggles S. Torrey, of Bangor, Me., for an "Improvement in bee-hives."

"What I claim, is, providing the troughs in the tops of the comb bars, arranged with the series of conducting tubes for converging the feed to the troughs, and with apertures or slots for the free exit of the moisture to the condenser in the manner and for the purpose described."

No. 24,343. Wm. S. Watson, of Madison, Ind., for an "Improvement in brick machines."

"What I claim, is, firstly, the combination and arrangement with a stationary pressing block (K), of an intermittently reciprocating press box, formed with one or more chambers (I, J), and provided with one or more plungers (L, L^1), having a joint motion with the press box, and an independent movement thereto, essentially as and for the purpose set forth. Secondly, the combination with the intermittently reciprocating press box of the top and bottom holding slides (*b*, b^1), or either of them, arranged to move conjointly with the press box, and independently of it substantially as specified. Thirdly, mounting the intermittently reciprocating press box, with a feed box having one or more chambers (M, M^1), essentially as and for the purpose herein set forth."

No. 24,344. T. F. Weston, of Salem, Mass., for an "Improvement in machine for finishing leather."

"I claim, 1st, the combination and arrangement of the devices herein described or their mechanical equivalents for changing the angle of the tool while the machine is in motion, so as to cause it to operate upon the latter, first with a sharp edge to take out its inequalities, and then with a dull or blunt edge to smooth the leather, the successive operations producing the peculiar effect desired for the purposes as set forth. Second, the arrangement of devices herein described for giving positive motions to the tool, for lifting it from and holding it down upon the bed, the same consisting of the sliding bar and friction box operating as set forth."

No. 24,345. Rob't F. White, of New York, N.Y., for an "Improved omnibus register."

"I claim the spring platform B, arranged in combination with the hammer K, and with the index *k*, and operated by the lever F or its equivalent, substantially in the manner and for the purpose specified."

No. 24,346. John M. Wilson, of Philadelphia, Pa., for an "Improved lock attachment."

"I claim the arrangement in combination with a lock A, *a*, and door B, *d*, of the box C, keyholes *c*, *b*, wards *e*, guard E, plate F, pivoted stops G, G, *h*, *h*, *i*, *i*, and springs H, H, the whole being constructed and arranged for united operation in the manner and for the purpose herein set forth."

No. 24,347. Sam'l Wiswall, of Hyde Park, Vt., for an "Improved washing machine."

"I claim the arrangement and combination within the oscillating cylinder B, of a receiving chamber (*d*), having plates (*e*, *e*), and a door (*f*), when said door (*f*) is corrugated on one side, and hinged to one of the plates (*e*), so that said door (*f*) may serve as a rubbing board, and also as a presser, all substantially as herein shown and described."

No. 24,348. John Young, of Joliet, Ill., for an "Improvement in cultivators."

"What I claim, is, 1st, the combination of the screw extension A, on the bottom of the standard B, with the oblique slotted castings C, C, attached to the front side of the cross bar D of the beam E, substantially as and for the purposes set forth. 2nd, the combination of the stationary vertically perforated bar G, with the adjustable rake or harrow H, arranged on a cultivator, substantially as and for the purposes set forth."

No. 24,349. John G. Clark, of Augusta, Geo., assignor to himself, D. G. Cotting, and Saml. W. Hatch, of same place, for "Burglar's alarm pistol."

"I claim, 1st, a pistol arranged on a vertical suspension guide of a hammer, so that the explosion of its cap, and the firing of its charges, may be accomplished by concussions of the pistol and hammer, substantially as and for the purposes set forth. 2nd, holding the pistol suspended by the means, and in the particular manner herein described, for the purpose set forth."

No. 24,350. J. D. Custer, of Norristown, Pa., assignor to himself and J. M. Roberts, of Perth, Amboy, N. J., for an "Improvement in machines for tempering clay."

"I claim the arrangement and combination of the stationary toothed rim *o*, encompassing the pit A, the frame H, with the gearing *k*, M, *l*, attached to its outer ends, the pinion *b* of the shaft N gearing into the rim *o*, and the rod or shaft F connected with the frame H, the hollow shaft *g* on the shaft B, and the belt *e*, *i*, passing around the pulleys K, *f*, *h*, *j*, substantially as and for the purpose set forth."

No. 24,351. Wm. Godsoe, of Manchester, Mass., assignor to himself and Isaac Ayres, of same place, for an "Improved steering apparatus."

"What I claim is the combination of the toothed segment M, and the curved way P, operating as set forth, for the purpose specified."

No. 24,352. C. Harris and Paul W. Zoiner, of Cincinnati, O., assignors to themselves and J. Langstaff, of same place, for an "Improvement in stoves."

"We claim the arrangement and combination of the damper G, chamber (*f*), double walled case (*a*), and pipe E, substantially as herein shown, so that the damper G, which pertains to the oven, shall, when drawn out, extend across the bottom of the pipe E, and cause the products of combustion to circulate as described when closed, shall permit a more direct draft, for the purposes set forth."

No. 24,353. Geo. L. Ingersoll, of Cleveland, Ohio, assignor to J. E. Ingersoll, of same place, for an "Improved apparatus for heating water."

"I claim the double cylinder heater C, C^1, the same being united by the plates G, F, H, I, so as to form the space J, J,

for the ascension of the heat, and by the pipes D, E, for the passage of the water, the heating space being covered by the cap K, and the parts here named being arranged as set forth. I also claim, in combination with the two cylinders C, C^1, the ingress pipe o, extending to near the bottom of the cylinder C, the exit pipe o, and the pipe N, in connection with the pipe D, E, for the purpose of establishing a circulation and rapid heating of the water."

No. 24,354. Ira Merritt, of Abington, Mass., assignor to himself and L. S. Merritt, of South Weymouth, Mass., for an "Improvement in shoe knives."

"What I claim is the within-described knife holder, in combination with an extensible blade, so arranged that as the blade is worn it may be protruded, as set forth, for the purpose described."

No. 24,355. Chas. Miller, of St. Louis, Mo., assignor to Henry Danford, of same place, for an "Improvement in spirit gas burners."

"What I claim, is, the arrangement of the valve over the tube and wick for the purpose of extinguishing the flame or regulating its size, and altering its direction, in the manner set forth."

No. 24,356. Felix Miller and Alois Wirsching, of New York, N.Y., assignor to Felix Miller and H. H. Hayden, of same place, for "Diaphragm for photographic cameras."

"We claim the arrangement and combination of the plates (a, a^1,) the notched plate C, and springs (m), as and for the purpose herein shown and described."

No. 24,357. Jedediah Morse, of Canton, Mass., assignor to the S. P. Ruggles Power Press Manufacturing Company, of Boston, Mass., for an "Improvement in power printing presses."

"What I claim is as follows:—I claim the improvement in the construction of each of the platen rails, a^3, a^3, the same consisting in the chute k, and a notch or depression l, arranged therein, and with reference to the rollers or tapes, substantially in manner and for the purpose as herein-before specified. I also claim the arrangement and combination of the slider R, with the operating cam, and the pin or stud o, on the rocker toggle, such slider being actuated by a foot treadle n, a spring q, and the cam r, of the toggle, substantially as described. I also claim the mode of ensuring the return movement of the toggles, and their gradual forward motion, after each impression has taken place, the same being accomplished by the notched wheel u, or its notch x, as described. I also claim the mode of constructing the gears a^1 and b^1, for operating the frisket carrier, viz., with the toothed arcs c^1, c^1, d^1, d^1, and the concave and convex arcs, e^1, e^1, and f^1, f^1, unprovided with teeth, the whole being arranged so as to operate together, substantially as specified. I do not claim the subject of the United States Patent, No. 7,205, but I claim the combination of the two, or any other suitable number of wheels r^2, r^2, lever nippers t^2, (applied respectively to them,) and their opening and closing bars x^2, y^2, or mechanical equivalents for such bars, the same being substantially as and for the purpose described. I also claim the above specified mode of constructing each of the nippers v, v, for receiving the sheet of paper from the table G, viz., so that each jaw may move away from the other, while the upper is being raised, the same producing the advantages, not only of ensuring the passage of the lower jaw underneath the sheet of paper, simultaneously with that of the other jaw over it, but of both jaws closing upon the paper, at one and the same time so as not to lift it out of place. I also claim the mode of constructing the lower jaw p^4, of each pair of nippers V, viz., with a lip or bend n^1, arranged thereon, and for the purpose described. I also claim the mode of applying and operating each of the points l^2, viz., hinging or jointing it to the table G, and combining with it a stop m^2, and lever k^2, or the equivalents therefor, the whole operating, or being made to operate, substantially as described. I also claim the improved method of operating the frisket carrier, the same consisting in causing it to descend and pass in an inclined position under the delivering tapes and rollers, while the nippers V, V, may be approaching the sheet table G, the same enabling the press to be made lower and shorter than when the frisket carriage is moved horizontally under the said delivering tapes or rollers."

No. 24,358. Wm. Noyes, jr., of West Newbury, Mass., assignor to S. C. Noyes and Co., of West Roxbury, Mass., for an "Improvement in machinery for cutting comb teeth."

"What I claim, is, in combination with the saw, or the same and its peripheral guide or guides, a mechanism or means of pressing or bending the saw laterally, substantially as and for the purpose specified. I also claim the mode of producing the lateral and longitudinal movements of the carriage of the comb carrier, viz., by means of the cam and its screw thread periphery, arranged and operating in conjunction with a rack applied to the said carriage, substantially as herein-before described.'"

No. 24,359. Louis Planer, of New York, N. Y., assignor to himself and Joseph Auger, of same place, for an "Improvement in machine for converting oscillating motion into direct circular motion."

"I claim the grooved dog F, having its tail resting in a recess b, c, or equivalent resting place in the lever E, without being pivoted or otherwise attached thereto, and having a spring G applied in combination with it and the said lever, and the whole being applied and combined with the wheel A and its axle E, substantially as herein described.'

No. 24,360. Thos. Shaw, of Philadelphia, Pa., assignor to himself and John C. Bailey, of same place, for an "Improvement in moulds for pressing glass."

"I claim forming on the plunger B a shoulder f of a size corresponding to that of the upper edge of the recess in the base A of the mould, and limiting the downward movement of the plunger, so that the said shoulder shall coincide or be slightly below the said upper edge of the recess, substantially in the manner and for the purpose set forth."

No. 24,361. Jacob J. Smith, of Philadelphia, Pa., assignor to himself and I. Henry Pugh, of same place, for an "Improved plug bedstead fastening."

"What I claim is, 1st, a double plug fastening for bedsteads, consisting of two distinct parts (A and A^1), so constructed as to be adapted for being driven or secured into the post and rail respectively, and also fitted with a wedge-shaped dove-tail tenon (d), and a corresponding groove (e), operating together so as to cause the end of the rail to be drawn tightly against the post in the downward pressure of the said rail after they are connected together, all substantially in the manner and for the purpose set forth and described. 2d, I also claim making the post plug (A^1) with the inclined dovetail groove (g) across in one side of the same, so as to operate in combination with the wedge-shaped tenon (e) on the rail plug (A), substantially in the manner, and for the purpose set forth and described."

No. 24,362. Anthony Wallach, of New York, N. Y., assignor to himself and Adolph Wallach, of same place, for an "Improvement in hooks for vest chains."

"What I claim is, the clasping hook c, in combination with the bolt i in the body b of the vest chain hook, for the purposes and as specified."

Designs.

Solomon B. Ellithrop, of New York, N. Y., for a "Design for sewing machines."

"What I claim is, the design for a sewing machine, illustrated and shown in the accompanying drawing."

Anthony J. Gallagher and Jacob Beesley, of Philadelphia, Pa., assignors to Anthony J. Gallagher aforesaid, for a "Design for Cook's stove."

"What we claim is, the arrangement and combination of the ornaments that form the design herein specified and represented in the accompanying drawings."

Erratum in Journal of 24th June.

1385. For "Porley" read "Pooley."

List of Specifications published during the week ending 24th June, 1859.

No.	Price.	Subject-Matter.
		(*Disclaimer*, 1851.)
13,552	5*d.*	Steam engines and boilers.
		(*Disclaimer*, 1858.)
1195	3*d.*	Lamp chimneys and glasses.
		1858.
2581	1*s.* 3*d.*	Looms for weaving.
2591	6*d.*	Ploughs, &c.
2592	1*s.* 4*d.*	Apparatus for the manufacture of lace and net.
2594	1*s.* 4*d.*	Machinery for making bricks or tiles.
2597	5*d.*	Bit or bridle.
2599	10*d.*	Assorting and separating combed fibres, &c.
2600	5*d.*	Obtaining caloric.
2601	6*d.*	Insulators, &c.
2602	3*d.*	Weaving machines.
2603	9*d.*	Warping mills, &c.
2604	4*d.*	Manufacture of gas.
2605	1*s.* 6*d.*	Manufacture of spurs.
2606	11*d.*	Machinery for winding fibrous substances.
2607	3*d.*	Ploughshares.
2608	7*d.*	Hat ventilators, &c.
2609	6*d.*	Ventilating hats and caps, &c.
2610	3*d.*	Refining lamp oil.
2611	3*d.*	Weaving machines.
2612	3*d.*	Manufacture of dextrine.
2613	8*d.*	Boiling water or worts for brewing, distilling, &c.
2614	3*d.*	Self-acting temples for looms.
2615	3*d.*	Trowser buttons.
2616	3*d.*	Manufacture of electric telegraph wires and cables.
2617	3*d.*	Apparatus for condensing and cooling vapours and liquids.
2618	3*d.*	Waterproofing fabrics or materials.
2619	10*d.*	Fire-arms.
2620	6*d.*	External surface condensers.
2621	6*d.*	Heating razors.
2622	4*d.*	Purifying natural phosphates of lime.
2623	3*d.*	Fastening buttons and studs.
2624	3*d.*	Motive power engines.
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2627	3*d.*	Chain cables and chains.
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2629	5*d.*	Apparatus for transmitting motive power.
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2632	7*d.*	Gas burners, &c.
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2641	1*s.* 4*d.*	Tubular steam boilers, &c.
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2659	3*d.*	Gas retorts.
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2773	7*d.*	Electric telegraph cables.

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Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
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——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
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Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
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Office of Chancery, Edinburgh.
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THE PATENT LAW AMENDMENT ACTS (15 & 16 Vict., cap. 83; 16 Vict., cap. 5; and 16 & 17 Vict., cap. 115); with the Rules and Regulations made by the Commissioners of Patents for Inventions, and by the Lord Chancellor and the Master of the Rolls, under the Acts 15 and 16 Vict., c. 83, and 16 & 17 Vict., c. 115, accompanied by Specimen Forms of the Provisional Documents printed on sheets of the prescribed size. Price 6*d*.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 25th June, 1859.

Mornings - - - -	1236
Evenings - - - -	825
Total - - -	2061

Since the opening of the Museum Free Daily (May 12, 1858,)—111,911.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

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PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.

MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.

PRODUCTION AND APPLICATIONS OF GAS.

STEAM ENGINES.

B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 573. FRIDAY, JULY 1, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1064. To JOSHUA KIDD, of Birkenhead, in the county of Chester, Civil Engineer, for the invention of "Improvements in sewing machines."

On his petition, recorded in the Office of the Commissioners on the 28th day of April, 1859.

1438. To EDWARD HUMPHRYS, of Deptford, in the county of Kent, for the invention of "Improvements in marine steam engines."

On his petition, recorded in the Office of the Commissioners on the 15th day of June, 1859.

1446. To NICHOLAS CHARLES SZERELMEY, of No. 6, Park Terrace, Brixton Road, in the county of Surrey, for the invention of "Improvements in preparing combinations of materials for preventing rust in iron and other metals, and decay in timber."

On his petition recorded in the Office of the Commissioners, on the 16th day of June, 1859.

1467. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A new system of windmill."—A communication from abroad by Bernard Zacharie Lethiers, No. 10, Rue Mogador, Paris, in the empire of France.

1468. To JAMES COX, of Wenlock Road, City Road, in the county of Middlesex, Printing Press Manufacturer and Engineer, for the invention of "Improvements in machinery or apparatus for cutting rags for paper makers."

1469. To ALFRED JEFFERY, of the Commercial Road, in the parish of Limehouse, in the county of Middlesex, Manufacturer, for the invention of "An improved mode of giving rotary motion to projectiles fired from rifled fire-arms."

1470. To RICHARD BRADSHAW, of Camden Town, Dentist, for the invention of "Improvements in rotary steam engines and pumps."

1471. To RICHARD HARPER, Lace Maker, and ROBERT STOKES, Lace Maker, and THOMAS WALKER, Clock Maker, each of Derby, in the county of Derby, for the invention of "An improvement in the manufacture of chenille bonnet wreaths and bonnet feathers."

1473. To GEORGE JUBILEE PARKER, of Church Street, Stoke Newington, in the county of Middlesex, Carpenter, for the invention of "A self-acting apparatus for giving alarm of fire, which is also useful in checking the same."

1474. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "An improved method of supplying furnaces with hot air."—A communication from abroad by Messrs. Addison Calvin Fletcher, of Cincinnati, Ohio, and George Ambrose Redman, of New York city, Gentleman, United States of America.

1475. To PAUL FRANÇOIS AERTS, formerly of Brussels, in the kingdom of Belgium, but now residing in London, England, Civil Engineer, for the invention of "Improved apparatus for lubricating railway rolling stock, and the moving parts of machinery."

1476. To JAMES RANSLEY, of No. 19, Princess Terrace, Islington, in the county of Middlesex, Carriage Builder, for the invention of "An improved brake for retarding railway and other carriages."

1477. And to JAMES RANSLEY, of No. 19, Princes' Terrace, Islington, in the county of Middlesex,

Carriage Builder, for the invention of "An improved omnibus."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of June, 1859.

1479. To JOHN COX, Saddler's-Ironmonger, of Birmingham, in the county of Warwick, and SAMUEL FRANKHAM and MOSES FRANKHAM, Bit, Stirrup, and Spur Manufacturers, of Walsall, in the county of Stafford, for the invention of "Certain improvements in spurs for military and general use."

1480. To RICHARD LAMING, of Hampstead, in the county of Middlesex, for the invention of "Improvements in purifying gas, and in obtaining and reproducing materials useful for that purpose."

1481. To CHARLES LOUIS JOSEPH DIERICKX, Director of the Paris Mint, of the Hotel des Monnaies, in the city of Paris, for the invention of "Improvements in coining."

1482. To JOHN EDWARDS, of 77, Aldermanbury, in the city of London, for the invention of "Improvements in the manufacture of iron rails."

1483. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improved apparatus for blowing off water from steam boilers."—A communication from abroad by James Harvey Washington, of Baltimore, in the United States of America.

1484. To ALFRED JAMES HAWKES, of Jewin Crescent, in the city of London, for the invention of "An improved triturating apparatus."

1485. To WILLIAM ROWAN, of the firm of John Rowan and Sons, Engineers, of Belfast, in the county of Antrim, for the invention of "Improvements in the generation of steam."

1486. And to THOMAS CHARLES CLARKSON, of No. 56, Stamford Street, Blackfriars, in the county of Surrey, Manufacturer, for the invention of "Improvements in the manufacture of boots, shoes, and other articles."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of June, 1859.

1487. To ANDREW PEDDIE HOW, of No. 81, Mark Lane, in the city of London, Engineer, for the invention of "Improvements in self-supplying distilling apparatus, and in apparatus for cooking combined therewith."

1489. To EDWARD GWYN, of Islington, in the county of Middlesex, Gas Engineer, for the invention of "Improvements in breech-loading fire-arms."—A communication from abroad by Henry Gross, residing in Ohio, U. S. A.

1491. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in tailors' and other shears."—A communication from abroad, by James H. Roome, of New York, in the United States of America.

1493. And to ALEXANDER PARKES, of Birmingham, in the county of Warwick, for the invention of "Improvements in the manufacture of cylinders and tubes of copper, and alloys of copper."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of June, 1859.

1497. To ROBERT SMITH, of Longridge, near Preston, in the county of Lancaster, Manufacturer, for the invention of "Improvements in apparatus applicable to looms for weaving fancy fabrics."

1499. To ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, Engineer, for the invention of "Improvements in steam hammers and pile driving machines."

1501. To CHARLES CLARINI, of New York, U.S.A., for the invention of "Making wrought metal nails by machinery."

1503. To FRANCIS XAVIER KUKLA, Chemist, of No. 121, Pentonville Road, in the county of Middlesex, for the invention of "Improvements in projectiles."

1505. And to THOMAS MOORE, of Lupus Street, Pimlico, in the county of Middlesex, for the invention of "Improvements in knapsacks and messtins."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of June, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of—

1500. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, praying for Letters Patent for the invention of "Improvements in apparatus for winding thread of cotton or linen, or other fibrous materials, or sewing silk, or similar articles, upon bobbins or spools,"—a communication from abroad by Lawson C. Ives, of Hartford, Connecticut, United States of America,—was deposited and recorded in the Office of the Commissioners on the 22nd day of June, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

1st July, 1859.

17. JAMES HARRIS, of Hanwell, in the county of Middlesex, Engineer, for an invention of "Improvements in apparatuses for regulating the pressure and flow of steam, water, and other fluids."—Dated 1st January, 1859.

19. GEORGE SKINNER, of Stockton-on-Tees, county of Durham, Earthenware Manufacturer, and JOHN WHALLEY, of South Stockton-on-Tees, county of York, Earthenware Manufacturer, for an invention

of "Improvements in the manufacture of ornamental and other tiles, and other similar articles."—Dated 1st January, 1859.

29. William Renton, of Leeds, in the county of York, Cloth Dresser, Thomas Renton, of Leeds aforesaid, Millwright, and William Binns, of Leeds aforesaid, Cloth Finisher, for an invention of "Improvements in raising the nap or pile of textile fabrics."—Dated 3rd January, 1859.

33. John Barnett Joyce, of Bradford, in the county of York, Machine and Tool Maker, for an invention of "Improvements in means, machinery, or apparatus applicable to wool combing."—Dated 4th January, 1859.

34. William Hood, of 68, Upper Thames Street, in the city of London, Iron Merchant, for an invention of "Improvements in racks and water cisterns for stables."—Dated 4th January, 1859.

35. Alfred Bedborough, of the town and county of the town of Southampton, Architect and Surveyor, for an invention of "An improved chimney cowl and ventilator."—Dated 4th January, 1859.

36. Charles de Forest, of Leicester Square, in the county of Middlesex, Gentleman, for an invention of "An improvement in the manufacture of springs for carriages and other uses."—A communication from Charles Goodyear, junior, residing at New York, in the United States of America.—Dated 4th January, 1859.

38. William Draper, of 2, Gordon Terrace, Holland Road, Brixton, in the county of Surrey, Artist, for an invention of "Improvements in machinery for printing on paper and other fabrics."—Dated 5th January, 1859.

47. William Renton, of Leeds, in the county of York, Cloth Dresser, Thomas Renton, of Leeds aforesaid, Millwright, and William Binns, of Leeds aforesaid, Cloth Finisher, for an invention of "Improvements in finishing woollen and other fabrics."—Dated 6th January, 1859.

51. William Spence, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, for an invention of "Improvements in the mode of taking photographic pictures on wood."—A communication from Charles B. Boyle, residing in the United States of America.—Dated 7th January, 1859.

79. Eugenio Agneni, of 29, Devonshire Street, Queen Square, Bloomsbury, in the county of Middlesex, an Historical Painter, native of Rome, for an invention of "Increasing particularly the effect of decorative pictures, landscapes, drawings, and prints through looking-glasses."—Dated 11th January, 1859.

97. Thomas Elwell, of Paris, in the empire of France, Engineer, for an invention of "Improvements in governors for steam engines, and other motive power engines."—Dated 12th January, 1859.

130. Polynice Auguste Viette, of No. 25, Faubourg de Schaerbeck, near Brussels, a Major in the Service of His Majesty the King of the Belgians, for an invention of "Certain inks, applicable for engraving and lithographic purposes."—Dated 15th January, 1859.

150. Henry Gallon, Joseph Henry Bean, and Samuel Lumb, of Leeds, Machine Makers, for an invention of "Improvements in machinery for slotting, morticeing, tennoning, and cutting wood, iron, and other substances."—Dated 18th January, 1859.

168. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in apparatus for making cigarettes."—A communication from Jacques Louis Lemaire Daimè, residing at Paris, in the empire of France, Merchant.—Dated 19th January, 1859.

258. Charles Edwards Amos, of the Grove, in the borough of Southwark, Engineer, and John Francis, of Bangor, in North Wales, Engineer, for an invention of "Improvements in water pressure engines, and their application to pumping machinery."—Dated 28th January, 1859.

312. Samuel Dobson Davison, of Leith, in the county of Mid Lothian, North Britain, Engineer, for an invention of "Improvements in locomotive steam engines."—Dated 3rd February, 1859.

314. Mark Smith, of the firm of William Smith and Brothers, of the Sun Foundry, Heywood, in the county of Lancaster, Machine Makers, for an invention of "Certain improvements in looms for weaving."—Dated 4th February, 1859.

884. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in telegraphing and in telegraphic apparatus."—A communication from Mr. A. Wilson, of New York in the United States of America.—Dated 8th April, 1859.

962. Henry Hussey Vivian, of Swansea, M.P., for an invention of "Improvements in smelting copper."—Dated 16th April, 1859.

1056. John Stuart, of Musselburgh, in the county of Mid Lothian, North Britain, and William Stuart, of the same place, Manufacturers, for an invention of "Improvements in machinery or apparatus for manufacturing nets for fishing and for other purposes."—Dated 27th April, 1859.

1136. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in piano-fortes."—A communication from abroad by George Vogt, of the city of Philadelphia, in the state of Pennsylvania, United States of America.—Dated 5th May, 1859.

1144. John Frearson, of Birmingham, in the county of Warwick, Mechanical Engineer, for an invention of "New or improved fastenings for wearing apparel, and for such other purposes as the same are or may be applicable to."—Dated 6th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 29th June*, 1859.)

1582. Thomas Smith, of Bredfield, in the county of Suffolk, for an invention of "Improvements in horse rakes."—Dated 5th July, 1856.

1608. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in repeating fire-arms." —A communication.—Dated 8th July, 1856.

1623. Alexander William Williamson, of the London University, Gower Street, in the county of Middlesex, for an invention of "Improvements in obtaining the rosin and sugar of scammony."—Dated 9th July, 1856.

Notice of Application for Leave to enter a Disclaimer and Memorandum of Alteration.

In the matter of Letters Patent, granted to William Taylor, of Woodhall Cottage, Shipborne, Tunbridge, for "Improvements in the conversion of cast iron into steel and malleable iron."—Dated 22nd September, 1856.

Notice is hereby given, that the said William Taylor has applied by petition to the Commissioners of Patents according to the Statute in that case made and provided, for leave to enter a Disclaimer of and Memorandum of Alteration of certain parts of the specification and of alteration of the title.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

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Victoria, Nos. 186 and 359.
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Production and Applications of Gas.
Steam Engines.

B. Woodcroft.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 574. TUESDAY, JULY 5, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

488. WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the utilization of alkali-waste."

As set forth in his petition, recorded in the said office on the 22nd day of February, 1859.

492. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's-Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improved apparatus applicable to the evaporation of saccharine liquids, and for the concentration of heat for other purposes."—A communication from Augustus Jouan, residing at San Francisco, California.

493. And URIAH SCOTT, of Camden Town, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in carriages and various parts of the same, which parts may be applied to vehicles of any description."

As set forth in their respective petitions, both recorded in the said office on the 23rd day of February, 1859.

498. And HENRY BERNOULLI BARLOW, of the city of Manchester, Patent Agent, has given the like notice in respect of the invention of "Improvements in apparatus for condensing steam."—A communication from abroad by François Daina, of Bergamo, in the empire of Austria.

As set forth in his petition, recorded in the said office on the 24th day of February, 1859.

514. And ROBERT FIELDEN, junior, of Walsden, in the county of Lancaster, Picker Manufacturer, and THOMAS FIELDEN, of the same place, also Picker Manufacturer, have given the like notice in respect of the invention of "An improvement or improvements in the manufacture of pickers to be used in looms for weaving, and also in the machinery or apparatus to be employed in the manufacture of the same."

As set forth in their petition, recorded in the said office on the 25th day of February, 1859.

521. And JOSEPH HINE, of Clerkenwell, in the county of Middlesex, Fancy Cabinet Manufacturer, has given the like notice in respect of the invention of "An improved joint for cabinet making, carpentry, and other constructive purposes."

As set forth in his petition, recorded in the said office on the 26th day of February, 1859.

524. And FRANCOIS BRIGNOLES, residing at No. 3, Duke Street, Adelphi, London, county of Middlesex, has given the like notice in respect of the invention of "The disinfection and rectification of alcohols by the separation of the essential and other oils from the alcohol."—A communication from Mr. St. Cyprieur, now residing in Avignon town, France.

531. And COLLINSON HALL and COLLINSON HALL the younger, of Navestock, in the county of Essex, Agriculturalists, have given the like notice in respect of the invention of "Improvements in steam agricultural machinery."

534. And WILLIAM HODSON, of Kingston Square, Hull, has given the like notice in respect of the invention of "Improvements in rotatory engines."

As set forth in their respective petitions, all recorded in the said office on the 28th day of February, 1859.

537. And THOMAS CLOAKE, of 6, Saville Row, Walworth, in the county of Surrey, Watch Maker, has given the like notice in respect of the invention of "Stopping the bodys and wheels of railway and other carriages."

541. And JOHN EDWARDS, of Fenton, in the county of Stafford, Manufacturer, has given the like

notice in respect of the invention of "Improvements in stacking or holding biscuit, earthen china and glossed ware, for firing."

As set forth in their respective petitions, both recorded in the said office on the 1st day of March, 1859.

554. And ETIENNE ROCHE, of Marseille, town in the French empire, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of paper suitable for forming cigarrettes, and for other purposes, and also improvements in the manufacture of cigars."

557. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of grease boxes and bearings generally." — A communication from Joseph Vallot, residing at Paris, in the empire of France, Engineer.

As set forth in their respective petitions, both recorded in the said office on the 2nd day of March, 1859.

579. And JOHN MACMILLAN DUNLOP, of the city of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cleaning fibrous materials."

584. And WILLIAM PEACOCK SAVAGE, of Roxham, Downham Market, in the county of Norfolk, has given the like notice in respect of the invention of "An improved machine for excavating, raising, and depositing soil."

585. And FRANÇOIS VERDEIL, Medical Doctor, of No. 30, Rue St. Sulpice, in the city of Paris, and EDMOND MICHEL, Chemist, of No. 4, Quai Impérial, Puteaux, Seine, have given the like notice in respect of the invention of "Improvements in treating madder."

As set forth in their respective petitions, all recorded in the said office on the 5th day of May, 1859.

599. And JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, have given the like notice in respect of the invention of "The manufacture of gelatine."

As set forth in their petition, recorded in the said office on the 7th day of March, 1859.

653. And WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in the apparatus of electric lamps or lights."—A communication from abroad by Victor Louis Marie Serrin, Civil Engineer, of Paris.

As set forth in his petition, recorded in the said office on the 15th day of March, 1859.

706. And WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, has given the like notice in respect of the invention of "An improved construction of chain harrow."

As set forth in his petition, recorded in the said office on the 19th day of March, 1859.

713. And SIGISMOND LEONI, of St. Paul Street, in the county of Middlesex, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of useful and ornamental articles, surfaces, and works, parts of articles and parts of machinery or apparatus, from talc and other silicates of magnesia, and from the same combined with other substances."

As set forth in his petition, recorded in the said office on the 21st day of March, 1859.

739. And JOHN EVANS, of Nash Mills, in the parish of King's Langley, in the county of Hertford, Paper Maker, has given the like notice in respect of the invention of "Improvements in the manufacture of paper."

As set forth in his petition, recorded in the said office on the 23rd day of March, 1859.

889. And JAMES HADDEN YOUNG, of 66, Great College Street, Camden Town, London, county of Middlesex, has given the like notice in respect of the invention of "Improvements in setting up, (composing), and distributing types."

As set forth in his petition, recorded in the said office on the 9th day of April, 1859.

908. And WILLIAM HENRY BARLOW, of Great George Street, Westminster, has given the like notice in respect of the invention of "Improvements in beams and girders."

As set forth in his petition, recorded in the said office on the 11th day of April, 1859.

1272. And NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Churchyard, in the city of London, Merchant and Manufacturer, has given the like notice in respect of the invention of "Improvements in treating waste vulcanized india rubber."—A communication from abroad by Hiram Lyman Hall, of Beverley, Massachusetts, United States of America.

1274. And NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Churchyard, in the city of London, Merchant and Manufacturer, has given the like notice in respect of the invention of "Improvements in finishing, coloring, and varnishing india rubber goods and similar manufactures."—A communication from abroad by Hiram Lyman Hall, of Beverley, Massachusetts, United States of America.

As set forth in his respective petitions, both recorded in the said office on the 23rd day of May, 1859.

1299. And JOSEPH REYNOLDS, of No. 11, Carthusian Street, Charter House Square, London, Gentleman, has given the like notice in respect of the invention of "Improvements in propelling vessels."

As set forth in his petition, recorded in the said office on the 26th day of May, 1859.

1389. And WILLIAM HENRY DORMAN, of Winchester House, Old Broad Street, in the city of London, and CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, have given the like notice in respect of the invention of "Improvements in traction and locomotive engines."

As set forth in their petition, recorded in the said office on the 7th day of June, 1859.

1418. And Henry John Nicoll, of the firm of H. J. and D. Nicoll, Merchant Tailors, 114 to 120, Regent Street, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in trousers."

As set forth in his petition, recorded in the said office on the 11th day of June, 1859.

1448. And Charles Wilkinson, of Slaithwaite, in the county of York, Merchant, has given the like notice in respect of the invention of "Improvements in doubling or twisting silk, cotton, worsted, linen, or woollen yarns, or yarns from any other fibrous substance."

1454. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in casting cylinders and tubes."—A communication from abroad by Freeborn Adams, of Somerville, in the state of Massachusetts, United States of America.

1455. And John Harmer, of Wellington Villas, Brighton, in the county of Sussex, Gentleman, and William Parsons, of Scotland Street, Brighton, in the county of Sussex aforesaid, have given the like notice in respect of the invention of "Improvements in fire arms."

As set forth in their respective petitions, all recorded in the said office on the 16th day of June, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

5th July, 1859.

42. William Corfield the younger, of Charlton-Adam, in the county of Somerset, for an invention of "Improvements in chains for coupling cranes, cables, mining purposes, hoisting, and all other purposes where chains are used."—Dated 5th January, 1859.

48. John Aspinall, of Great Tower Street, in the city of London, Civil Engineer, for an invention of "Improvements in machines for the manufacture of bolts, rivets, and spikes."—Dated 6th January, 1859.

52. Isaac Holden, of St. Denis, near Paris, in the empire of France, and Angus Holden, of Bradford, in the county of York, for an invention of "Improvements in means or apparatus employed in preparing and combing wool and other fibres."—Dated 7th January, 1859.

54. Jean Joseph Florance, of Paris, France, Merchant, for an invention of "Improvements in reels or spooling wheels."—Dated 7th January, 1859.

60. Henry Harden, of Dundalk, in the county of Louth, Ireland, Locomotive Superintendent to the "Dublin and Belfast Junction Railway Company," for an invention of "Improvements in fire bars for steam boiler and other furnaces."—Dated 8th January, 1859.

78. Thomas Harris Toms, of Staining Lane, in the city of London, for an invention of "The employment of certain materials for the production of raised ornamental figures or devices upon textile fabrics."—Dated 10th January, 1859.

148. John Foster, of Lancaster, in the county of Lancaster, Corn Merchant, for an invention of "Certain improvements in machinery or apparatus called 'spinning frames' and 'roving frames' employed for spinning and roving flax, tow, hemp, jute, and other fibrous substances."—Dated 18th January, 1859.

190. Charles O'Hara, of Toronto, Canada West, but now residing at No. 4, Upper Seymour Street, Hyde Park, in the county of Middlesex, Esquire, for an invention of "Improvements in propellers for propelling steam boats, ships, and vessels."—Dated 21st January, 1859.

198. Bernard Lauth, late of Pittsburgh, state of Pennsylvania, U. S. A., but now residing at Surrey Street, in the city of Westminster, Mechanician, for an invention of "An improved mode of and improved machinery for rolling plates, bars, rods, and shafts."—Dated 21st January, 1859.

210. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in the manufacture of cast steel and iron."—Dated 24th January, 1859.

251. Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W. C., for an invention of "Improvements in the manufacture of biscuits."—A communication from Messrs. Pascal and Sirben, residing at Toulouse, département de la Haute Garonne, in the empire of France.—Dated 27th January, 1859.

294. Edward Hammond Bentall, of Heybridge, near Maldon, in the county of Essex, Ironfounder, for an invention of "Improvements applicable to machinery for grinding or pulverizing various substances."—Dated 1st February, 1859.

372. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Certain improvements in breech-loading fire-arms, and in cartridges to be used in such fire-arms."—A communication from abroad by Gilbert Smith, of the State of New York, in the United States of America.—Dated 9th February, 1859.

910. William Clark, of Langhaugh, Galashiels, Scotland, a Lieutenant in Her Majesty's Navy, for an invention of "An improved safety block to be used for lowering ships' boats, the same being applicable to other like or analogous purposes."—Dated 12th April, 1859.

1040. William Warne, John Americus Fanshawe, James Archibald Jaques, and Thomas Galpin, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for an invention of "Improved compounds, applicable for packing the joints of steam or other pipes,

which compounds are also applicable for packing or lining parts of machinery in general, or parts of ships, bridges, tanks, or railways."—Dated 25th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 2nd July*, 1859, *inclusive.*)

1st July.

1559. WILLIAM HENRY HUBBARD, of 18, Hemus Terrace, King's Road, Chelsea, in the county of Middlesex, for an invention of "Improvements in the manufacture of articles for lighting domestic and other fires."—Dated 2nd July, 1856.

1572. ROBERT LUKE HOWARD, of 85, Whitecross Street, in the county of Middlesex, Engineer, for an invention of "Improvements in valves for regulating the flow of fluids."—Dated 4th July, 1856.

1594. JAMES HORSFALL, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "An improvement or improvements in the manufacture of wire rope."—Dated 7th July, 1856.

2nd July.

1591. GEORGE SAMPSON, of Bradford, in the county of York, Stuff Finisher and Presser, for an invention of "Improvements in finishing fabrics."—Dated 7th July, 1856.

1597. EDWARD CHARLES HEALEY, of Sidmouth Lodge, Old Brompton, and EDWARD ELLIS ALLEN, of 376, Strand, for an invention of "An improvement in preparing for use veneers, paper, and other fabrics or sheets made of fibres."—Dated 7th July, 1856.

1632. PAUL PRINCE, of Derby, in the county of Derby, for an invention of "Improvements in making moulds for casting railway chairs and other articles."—Dated 10th July, 1856.

1635. JOHN FOWLER, junior, of Havering, in the county of Essex, and WILLIAM WORBY, of Ipswich, for an invention of "Improvements in machinery for ploughing and tilling land by steam." Dated 10th July, 1856.

1720. ROBERT RICHARDSON, of 26, Great George Street, Westminster, Civil Engineer, and JONATHAN EDWIN BILLUPS, of Llanelly, South Wales, Railway Contractor, for an invention of "Improvements in the permanent way of railways."—Dated 21st July, 1856.

Erratum in Journal of 1st July.

1483. For "James Harvey Washington" read "James Havey Washington."

FOREIGN PATENTS.

BELGIUM.*

LIST of PATENTS Delivered on the 30th June, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 572 of this Journal.)

7622. J. F. MAYOR, of Dison, for "A loom."—Dated 6th June, 1859.

7623. W. WARNE, J. A. FANSHAWE, J. A. JAQUES, and TH. GALPIN, represented by A. Anoul, of Ixelles, for an imported invention of "Chemical compounds for joining steam pipes and packing machinery."—Dated 4th June, 1859.—(English Patent, 25th April, 1859.)

7626. R. VIERNE and Co., of St. Etienne (département de la Loire), represented by A. Angot, of Brussels, a Patent of Improvement for "Obtaining acierated wheel tyres of railway carriages by means of the steam hammer."—Dated 7th June, 1859.—(Original Patent, 12th August, 1857.)

7628. R. NELSON, represented by R. Culliford, of Brussels, for an imported invention of "An apparatus for raising water and other fluids."—Dated 8th June, 1859.—(English Patent, 22nd November, 1858.)

7629. A. DUNN, represented by R. Culliford, of Brussels, for an imported invention of "Improvements in making marking ink."—Dated 8th June, 1859.—(English Patent, 16th October, 1858.)

7630. L. J. FICHEROULLE, of Farciennes, for "A safety apparatus of whims, counter, and alarum for mines."—Dated 10th June, 1859.

7631. L. HUBINON, of Liége, for "Improvements in fastening Lefaucheux' guns."—Dated 8th June, 1859.

7632. CH. MANUEL, represented by Cail, Halot, and Co., of Molenbeek St. Jean, for "Using centrifugal power for extracting beetroot juice, and working the scum of sugar and refining works."—Dated 9th June, 1859.

7633. P. PERIER and L. A. POSSOZ, represented by Cail, Halot, and Co., for "Improvements in refining sugar."—Dated 9th June, 1859.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7634. F. Vouillon and F. R. Tavernier, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Treatment of filamentous substances in the manufacture of thread and tissues."—Dated 9th June, 1859.—(Original Patent, 12th March, 1859.)

7636. P. A. Loron, of Housse, for "Modifications in revolvers."—Dated 9th June, 1859.—(Original Patent, 13th October, 1857.)

7638. G. D. Vandenhaute, of Brussels, for "A fly-wheel for spinning flax, hemp, and oakum."—Dated 10th June, 1859.

7639. H. A. Corbin, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of stereoscopes."—Dated 10th June, 1859.—(French Patent, 1st August, 1857.)

7640. H. Guyot, represented by Biebuyck, of Brussels, for an imported invention of "A machine for moulding bricks."—Dated 10th June, 1859.—(French Patent, 7th May, 1858.)

7641. W. H. Nevill, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in the manufacture of iron and steel."—Dated 10th June, 1859.—(English Patent, 26th May, 1859.)

7642. H. F. Gardner, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in the manufacture of boots."—Dated 11th June, 1859.—(English Patent, 9th April, 1859.)

7643. B. J. Jean, of St. Ghislain, for "An apparatus called 'vinegar fountain.'"—Dated 11th June, 1859.

7644. F. J. Motte, of Ghent, for "Manufacturing and refining sugar without using animal charcoal or ox-blood."—Dated 11th June, 1859.

7645. A. Baillot, of St. Josse-ten-Noode, for "A needle rest for sewing machines."—Dated 14th June, 1859.

7646. Ed. Delaute, of Ixelles, for "Belgian cement."—Dated 14th June, 1859.

7647. L. A. Pruneau, represented by O. Daillencourt, of Brussels, for an imported invention of "A machine for sowing all kinds of seeds."—Dated 14th June, 1859.—(French Patent, 21st April, 1859.)

7648. L. Nagant, of Liége, a Patent of Improvement for "Metallic cartridges, applicable to Lefaucheux's guns and revolvers."—Dated 15th June, 1859.—(Original Patent, 21st January, 1859.)

7649. J. F. Larose, of Liége, for "Breech-loading fire-arms."—Dated 15th June, 1859.

7650. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for "Improvements in the manufacture of cast-steel."—Dated 15th June, 1859.—(English Patent, 16th December, 1858.)

7652. Ed. Lemmens, represented by H. Biebuyck, of Brussels, for "Improvements in apparatus for roasting coffee."—Dated 15th June, 1859.

7653. Gastinne-Renette, represented by A. Francotte, of Liége, for an imported invention of "Breech-loading guns and revolvers with a central fire."—Dated 16th June, 1859.—(French Patent, 5th March, 1853.)

7654. J. F. X. Perrin, represented by Ad. Romberg, of St. Josse-ten-Noode, a Patent of Improvement for "Pumps with two cylinders of a different diameter."—Dated 16th June, 1859.—(Original Patent, 12th October, 1857.)

7655. J. L. Manby, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in apparatus and furnaces for annealing metal wire."—Dated 16th June, 1859.—(French Patent, 14th June, 1859.)

7656. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the manufacture of cast-steel."—Dated 16th June, 1859.—(English Patent, 22nd December, 1858.)

7657. L. G. Scriba, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A purse combined with a portemonnaie."—Dated 16th June, 1859.

7658. C. J. E. Pavy, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "An apparatus for preserving grain."—Dated 16th June, 1859.—(Original Patent, 22nd December, 1858.)

7659. C. F. Sibbald, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in steam boilers and other vessels."—Dated 16th June, 1859.—(English Patent, 9th June, 1859.)

7660. W. Strode, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in gas apparatus for lighting and ventilating."—Dated 16th June, 1859.—(French Patent, 4th March, 1859.)

7661. Th. Guibal, of Mons, for "A mode of suspending pulleys on springs for working mines."—Dated 17th June, 1859.

7662. J. E. S. Achet, represented by A. Crooy, of Brussels, a Patent of Improvement for "A mode of stopping horses."—Dated 17th June, 1859.—(Original Patent, 3rd March, 1859.)

7663. Ch. Lambotte, of Verviers, a Patent of Improvement for "A power loom."—Dated 20th June, 1859.—(Original Patent, 12th October, 1855.)

7665. Ph. Gambardella, represented by H. Biebuyck, of Brussels, for an imported invention of "Obtaining and applying motive power without fuel."—Dated 18th June, 1859.—(English Patent, 31st May, 1859.)

7666. P. F. Varenne, of Brussels, for an imported invention of "Improvements in making bonnets."—Dated 20th June, 1859.—(French Patent, 14th June, 1859.

7669. Th. Bochum, Mining and Steel Smelting Company, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in smelting steel and making bells, tyres, and wheels of locomotives."—Dated 20th June, 1859.—(French Patent, 8th March, 1859.)

7670. J. F. Larose, of Liége, a Patent of Improvement for "Economical kitchen ranges."—Dated 20th June, 1859.—(Original Patent, 19th May, 1858.)



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 14th June, 1859, and each bearing that date.

No. 24,363. PLEASANT ARMSTRONG, of Camden, Ala., for an "Improved washing machine."

"I claim, 1st, the arrangement of the complete stationary rounds of the convex swing frame, on two semicircular lines of different diameters, so that the rollers on the smallest semicircle shall stand above and opposite the spaces between the rollers on the largest semicircle, in combination with the arrangement of the stationary rounds of the concave, substantially as and for the purposes set forth. 2nd, the arrangement of two auxiliary treadle standards, with the main standards of the tub, in the manner herein described, and for the purpose set forth."

No. 24,364. JOHN A. BARRINGTON, of Fredericktown, Ohio, for a "Machine for printing addresses, &c."

"What I claim is, 1st, a cylinder constructed with grooved ribs, or their equivalents, for holding forms of type, presenting them at a proper point to perform the office of printing, and afterward allowing them to be delivered from the cylinder, substantially as described. 2nd, in combination with the cylinder (B), I claim the ribs (*k*) arranged upon an endless chain, in such manner as to receive the forms of type, as herein described. 3rd, securing the forms (*i*) within the rib (*b*), in such manner as to present said forms properly for printing, by means of the follower (*j*, j^1, *m*,) (catch j^{11}), and spring (j^{111}), substantially as described. 4th, adjusting the forms of type for printing and delivering them from the cylinder, after printing by means of a reciprocating bar, operating substantially as herein described, or its equivalent in effect. 5th, the inclined feed wheel (W) constructed with adjustable spring conveyors (*o*, o^1,) and operating substantially as herein described. 6th, regulating and adjusting the speed of the endless apron (T), by means of the inclined disk (*t*), friction wheel (t^1), set screws v^1, v^{11}, v^{111},), and crank screw (*v*), all constructed, arranged, and operating substantially as herein described, for the purposes set forth."

No. 24,365. VICTOR BEAUMONT, of New York, N. Y., for an "Improved gauge for measuring the pressure of fluid."

"I claim, 1, so arranging respectively, dome-shaped elastic disks, of one or more spring chambers, in pressure gauges, so that the pressure of steam, or other fluid within said chambers, be indicated by the motion of the disk or plate which presents its convexity to the pressure. II, the manner, substantially as herein described, of guiding the free end of a spring, consisting of one or more chambers, expanding, by pressure from within, in order to prevent it from vibrating in any direction but that of its axis. III, in pressure gauges with a hollow spring chamber mechanism, I claim partially filling the space inside of said chambers, with a solid substance or substances, in the manner and for the purposes set forth."

No. 24,366. JAMES M. BOTTUM, of New York, N. Y., for an "Improved instrument for measuring the strength of watch springs."

"I claim an arbor, having a measuring spring affixed thereto, together with an index, substantially as herein described, and an attachment for attaching the hair spring to be measured, combined, and arranged in the manner and for the purposes set forth, and constituting a ready means of determining the exact force of said hair springs, as above specified."

No. 24,367. WM. OLAND BOURNE, of New York, N. Y., for an "Improved ore separator."

"I claim, first, a sieve bed, in which the openings or perforations for the passage of the air or water through it are so constructed as to enforce an uniform action of the air or water through the entire surface of the sieve bed, which may be made of sheet metal, or of any textile material, either separately, or in combination, or of their equivalent, as above set forth. Second, the application of a vibrating and shaking motion to a sieve bed, in combination with a blast or current of air or water, in the manner and for the purpose above described. Third, the above-described adjustable blades for agitating the substance on the sieve bed, and for regulating the discharge of the refuse substances over the front edge of the table, as above described. Fourth, the separation of metals, or other heavy substances, from ores or other materials, when fed upon a sieve bed, by the gravitation of the lighter substances towards and over the front or waste edge, when acted upon by a current of air or water through a sieve bed, in the manner and for the purpose above set forth."

No. 24,368. E. C. BRACKETT, of Newton Corner, Mass., for an "Improved marine hand propeller."

"I claim the arrangement and combination of the adjustable bar E, arms D, oscillating shaft E, hinged blades F, rods G, arms K. P, rod N, and lever H, as and for the purposes herein set forth and described."

No. 24,369. WM. BRAMWELL, of New York, N. Y., for an "Improved valve."

"What I claim is, the sliding nut *k* actuated by the screw *i*, in combination with the hinged valve *m* and toggle links *l*, *l*, substantially as specified."

No. 24,370. JOSEPH FRANCIS BROUARD, of Havre de Grace, France, for an "Improvement in reefing sails."—Patented in France, 2nd February, 1855.

"What I claim is, 1st, supporting the rolling yard F (Fig. 12, Sheet No. 3,) between its points of suspension by the hook N, the said hook being constructed and operated as described, for the purpose of staying the rolling yard and holding it in position when the sail attached to it is acted upon by the wind, as herein set forth. 2nd, the construction of the boom iron, shown in Fig. 9, Sheet No. 3, for the purpose of placing the boom in position to prevent the chafing of the sail, as described."

No. 24,371. ROBT. BROWN, of New London, Conn., for an "Improvement in projectile for killing whales."

"What I claim as my invention in the harpoon bomb, and desire to secure by Letters Patent, is, the flukes on the shank of the bomb, the line attached thereto, the groove or indentation in the barrel of the bomb for the line, as above stated."

No. 24,372. J. S. BUTTERFIELD and SIMEON MARSHALL, of Philadelphia, Pa., for an "Improvement in self-priming gun locks."

"First, we claim the extension (*g*) on the carrier (*c*), in the manner and for the purpose as herein-before substantially set forth. Second, we claim disconnecting each primer from the roll with the raising of the hammer, in the manner and for the purpose as herein-before substantially set forth. Third, we claim the adjustable centre projection *h*, *h*, and thumb screw *q*, *q*, arranged and operated in the manner and for the purpose as herein-before substantially set forth."

No. 24,373. ROGER S. CADWELL, of Andover, Ohio, for an "Improved method of attaching the capping of fence posts."

"I claim the projection or tongue *h* formed on the top of the post in connection with the mortise 1 in the capping for attaching the said capping to the post and securing it by a batten, as described."

No. 24,374. THOS. CHAMPION and THOS. MOTLEY, of Washington, D. C., for a "Mode of fastening letters to sign boards, &c."

"What we claim is, the placing or casting on the back of letters projections with solid cast or wrought shanks therefrom. We claim holes in said projections to fasten by screws, nails, or rivets, substantially as described."

No. 24,375. Isaac S. Clough, of Brooklyn, N. Y., and Saml. R. Burrell, of New York, N. Y., for a "Fly-trap."

"We claim the combination of the stationary cone, revolving catcher and start, and receptacle, when constructed as described and for the purpose specified."

No. 24,376. Thos. Crane, of Fort Atkinson, Wis., for an "Improved sugar-cane press."

"What I claim is, the combination of the pressure rollers (B, C,) with the main bearing wheel (A) of a frame, which is so proportion and supported that it can be rotated around a pivot post, but this I only claim when a fluid-receiving vessel (*a*), a conducting tube (*i*), an annular channel (*j*), and a delivery spout (*k*), are combined with the said frame, substantially in the manner and for the purpose herein represented and described."

No. 24,377. Saml. S. Crocker and Geo. E. Marshall, of Lawrence, Mass., for an "Improvement in manufacturing paper."

"What we claim is, first, the combination of internally-heated drying cylinders (*a*) with a steam box or boxes, arranged for the purpose of continuously first thoroughly drying paper, and then superficially moistening it by the direct application of steam, prior to the operation of calendering. Second, the combination of a steam box or boxes, so arranged as to moisten paper superficially by the steam therein contained, with rolls which calender by pressure, as described."

No. 24,378. Chas. Crossley, of Ellington, Conn., for an "Improvement in looms."

"What I claim is, first, the combination of the series of vibrating tuft formers K, K^1, K^{11}, and the vibrating reed G, H, arranged and operating substantially as above described. Second, the combination of the weights 3 and 4, the knotted cord and slotted arm *s*, for the purpose of controlling the set off of the tufting yarn beam, as above described."

No. 24,379. John Daines, of Birmingham, Mich., for an "Improvement in drain tile machines."

"What I claim is, first, the bar G, and hooks D, in combination with the cross bar E, when used for the purpose of opening the lid C automatically, as above described. Secondly, I claim the bar P, combined with the frames M, in the manner aforementioned with the levers L, for cutting off the tile by the returning of the plunger."

No. 24,380. Horace B. Davis, of Lexington, Mass., for an "Improved horse bracket."

"Claim: the improved mode of fastening and confining it to the foot, by having the points of attachment bear directly upon the shoe so as not to injure the ankle or fetlock by galling, or the hoof by compression; and also the machinery by which the racket is adjusted to the size of the foot, and held more firmly and securely than by any other mode of attachment now known."

No. 24,381. E. R. Denniston, of Middletown, N. Y., for an "Improved milk can."

"I claim as an improved article of manufacture a milk can having its cover C hinged to a flanch (*f*), and provided with a plate (*h*), stopper (*k*), and having the guard hoop B attached to the body of the can (*b*), all as herein shown and described."

No. 24,382. Patrick S. Devlan, of Reading, Pa., for an "Improved churn."

"What I claim is, the employment in a churn in which the cream is acted upon by a blast only of a float G, substantially as and for the purpose herein-before described."

No. 24,383. Christian H. Eisenbrandt, of Baltimore, Md., for an "Improvement in attachments to locomotive engines for removing objects from the track."

"What I claim is, the double suspension lifting platform, composed of the parts *c*, *c*, c^2, *d*, *d*, *e*, *e*, *f*, *f*, *g*, *g*, *h*, *h*, J, J, K, K, L, L, *m*, *m*, the yielding net work, or flexible fender guard (or its equivalent) I, I, I, I, when constructed, combined and arranged substantially in the manner as herein set forth and described."

No. 24,384. Chas. Foster, of Eldridge's Hill, N.J., for an "Improvement in operating switches on railroads."

"I claim the mode of operating switches by means o movable cams *i*, *i*, or their equivalents on the car, acting on a cam A, or its equivalent, connected by means of levers with the switch rail *c*, substantially as above described."

No. 24,385. H. B. Gill, of Ogden, N. Y., for an "Improvement in machines for dressing millstones."

"I claim the combination and arrangement of the pivoted segmental arm *o*, and slide N, with the striking lever G, and cam M, or its equivalent, substantially in the manner and for the purpose set forth."

No. 24,386. Thos. I. Goff, of Harren, R. I., for an "Improvement in machines for making hay."

"I claim the combination of the gathering rake D and revolving rake E, when arranged for joint operation, substantially as and for the purpose set forth."

No. 24,387. Geo. D. Greenleaf, of Chateangay, N. Y., for an "Improvement in ventilators."

"I claim, in combination with the cylinder A bell-shaped casting G, and plates B, D, the cup J, and register F, for the purpose specified."

No. 24,388. Dexter D. Hardy, of Cincinnati, Ohio, for an "Improvement in rotary engines."

"I claim the arrangement of the rings e^1, e^{11}, e^{111}, operating in the described combination with the pipes *s*, *s*, to pack the revolving shaft C, in its connection with the stationary cylinder A, by the use of steam or water pressure as explained. 2d, the combination and arrangement of the revolving shaft C, containing the receiving and discharge ports J, K, with the stationary cylinder A, B, and valves E, E, substantially as described."

No. 24,389. Henry Hersh, of Lancaster, Pa., for an "Improvement in horse rakes."

"What I claim is, the arrangement and combination of the S-shaped teeth H, lock I, revolving axle B, and clearers M, as described, and for the purposes set forth."

No. 24,390. Henry Charles Howells, of New York, N.Y., and Joseph Charles Howells, of Madison, Wis., for an "Improved omnibus register."

"First, we claim the employment of a yielding platform to determine the value of the entry or fare, and in combination with doors or equivalent devices to secure the registration of persons standing upon it, previous to their ingress or egress, substantially as specified and set forth. Second, we also claim the employment and use of the circular or segmental doors, or equivalent devices, having within the area of their action, a yielding platform, operating substantially as set forth and specified. Third, we claim, in combination with the yielding platform G, an operative lever N, and vertical rod M, and puppet Q, or their equivalents, substantially as set forth, and for the purpose specified. Fourth, we claim the pin or bolt *s*, in combination with the arm O, attached to the vertical rod M, or their equivalents, for communicating motion to the registering levers S and T, by the action of the jointed arm P, substantially as specified and set forth. Fifth, we also claim the registering levers S and T, operated as set forth, or their equivalents, and in combination with the registering ratchet wheels U and V, and the spring pawls *m*, *m*, together with the double dial X, for registering the whole or half entries or fares, substantially as set forth and specified. Sixth, we also claim the stationary brushes, and the arrangement and combination of levers and rods, or their equivalents, for operating the doors and steps, substantially as set forth and described."

No. 24,391. Solon P. Hubbell, of Unadilla, N.Y. for an "Improvement in sowing machines."

"I claim the combination of the bar I, having teeth W, angular notches X, and clearers V, with hopper D, its pins Y, and slide blocks O, the whole being constructed and arranged as and for the purpose set forth. I also claim, in combination with the hopper D, pins Y, slide blocks O, and regulating plate E, the reciprocating bar F, with its clearers R, R^1, and stirrers S, these several devices being constructed and arranged for operation conjointly in the manner and for the purpose described."

No. 24,392. Richd. Humphreys, of Jonesborough, Tenn., for a "Tuning key-board."

"I claim, as a new article of manufacture, the before-described compound tuning reeds, necessary to represent the corresponding keys in the general scale of musical notations, substantially as before described."

No. 24,393. Henry L. Kendall, of Providence, R.I., for an "Improvement in wood screws."

"What I claim under this Patent, is, a wood screw having a thread of a ratchet-tooth shape, in combination with wide spaces between the convolutions thereof, on a stem cylindrical, or nearly so, and on a point of any suitable form, substantially as herein set forth. I also claim, making the threaded point of a wood screw in such manner that the thread thereof (except the terminal convolution) shall be of the same or nearly the same depth on its upper and lower sides, to give the screw a firmer hold of the wood, especially on its first entrance, than it would have, if the threads on the points were made of gradually less depth toward the apex, substantially as herein set forth. I also claim, so forming the thread of a wood screw, that it shall be of the same depth on the upper and under side on the point and on the stem (except the terminal convolution of the point, which is contracted rapidly in depth and width,) substantially as herein set forth."

No. 24,394. Daniel Leavitt, of Chicopee, Mass., for an "Improvement in breech-loading fire-arm."

"What I claim is, effecting the locking and unlocking of the upwardly opening breech, and the starting of the same from its seat to open it, by means of a detached lever, having a locking dog f^1 to enter a notch in the breech, and a toe g, to act against the bottom of the breech, substantially as herein described."

No. 24,395. James S. McCurdy, of Brooklyn, N.Y., for an "Improvement in sewing machines."

"I claim, first, the combination of a reciprocating needle with a pair of loopers, or their equivalent, the combination as a whole operating in such manner that each successive needle loop is encircled by a tight coil of the thread of the preceding loop, substantially as described. Second, the combination and arrangement of two loopers, substantially such as herein described, with a driver operating substantially in the manner and for the purpose described. Third, constructing and operating one of the loopers, in such manner that a supplementary movement is imparted to it, while the other is at rest, for the purpose of tightening the stitch."

No. 24,396. H. T. Merrill, of Galena, Ill., for an "Improvement in musical instruments."

"What I claim is, the Gamut board C, applied above and behind the keys, in combination with a sliding name board B, or its equivalent, substantially as herein specified."

No. 24,397. Rufus S. Merrill, of Lynn, Mass., for an "Improvement in lamps."

"In coal oil burners, of otherwise ordinary construction, I claim the combination with a flat wick tube of the removable director, constructed as described, with inclined side walls and vertical ends, the latter being corrugated or grooved to fit the ends of the wick tube, as a means of securing the director to the wick tube, and for directing or conveying the heated vapors, mixed with atmospheric air, to the sides of the flame, substantially in the manner and for the purpose set forth."

No. 24,398. Leman C. Miner, of Hartford, Conn., for an "Improvement in hanging carriage bodies."

"What I claim is, 1st, the application of the double-jointed shackle H to the front axle, whereby the vertical position of the spring and axle is sustained, and the fifth wheel and appendages dispensed with. 2nd, the back axle braces, with double joints B, B, to admit a free and easy vertical motion of the springs, and supporting the axle in its upright position, substantially in the manner as herein described."

No. 24,399. Eli Moore, of Slabtown, So. Ca., for an "Improvement in ploughs."

"What I claim is, the arrangement of the beam A, brace B, clevis C, foot D, stock E, and ring F, the whole being constructed as described for the purposes specified."

No. 24,400. James D. Osborn, of Constantine, Mich., for an "Improvement in machines for binding grain in bundles."

"I claim a binding knot, composed of three loops passing through each other, when said passing of the loops through each other is effected by machinery, driven or moved from any of the moving parts of a harvesting machine, and whether accomplished by the means herein stated or by their substantial equivalents."

No. 24,401. Dubois D. Parmelee, of New York, N.Y., for an "Improvement in vulcanizing caoutchouc."

"I claim the preparation and use of the ingredients herein described, with bromine, whether combined or not with sulphur, substantially as herein described, and for the purposes set forth."

No. 24,402. A. P. Pitkin, of Hartford, Conn., for an "Improved steam pressure regulator."

"What I claim is, the forming a connection with the reduced pressure pipe or chamber A, and diaphragm, spring, or piston B (or their equivalents) for the purpose of opening and closing a passage C between the high and reduced pressure pipes or chambers A and D, as and for the purpose described. Also, the combination of passage C, piston or valve E, rod I, lever F, diaphragm, spring, or piston B, and safety valve H, arranged to operate in relation to each other, as and for the purpose described."

No. 24,403. R. B. Prindle, of Coventry, N. Y., for an "Improvement in devices for securing the clevis to ploughs."

"I claim the arrangement of the pin (C), feather or rib (*c*), spaces (*e*, *e*), clevis (B), beam (A), and groove (*a*), as described, for the purposes set forth."

No. 24,404. Joseph Hoffacker and Joseph Richards, of New York, N. Y., for an "Improvement in keys, &c., for pianofortes."

"What we claim, is, 1, the construction of the key board, by substituting, instead of the usual keys, knobs connected with the main levers, substantially as described. 2, the pivoted rod *a*, in combination with the main levers *m*, substantially as described. 3, the construction of the damper *o*, substantially as set forth. 4, the construction of the trigger *n*, and its action on the damper O, substantially as described. 5, the construction of the hammer S, and its action, in combination with the principal lever *m*, substantially as described."

No. 24,405. Daniel J. Riker, of Harlem, N. Y., for an "Improvement in clip for carriage thills."

"What I claim is, extending the plate *c* of the carriage clip, in the form of a spring, to the eye of the shafts, and causing said spring to operate on the aforesaid eye in the direction of the pull, to keep the parts of the bolt and eye in contact, for the purposes and as described."

No. 24,406. John N. Sawtell, of Chicopee, Mass., for an "Improvement in speeder and stretcher flyers."

"What I claim is, the new article of manufacture herein described, for a flyer, for spinning frames, when constructed essentially in the manner and for the purposes set forth."

No. 24,407. Noah Seitz, of Mellmore, Ohio, for an "Improvement in method of ventilating corn houses."

"What I claim, is, the arrangement of the openings O and O^1, with the wire grating, in combination with the secondary perforated floor *d*, lathing *c*, and ventilator *f*, substantially as and for the purposes set forth."

No. 24,408. Alexr. Shoemaker, of Carey, Ohio, assignor to James G. Hunt, of Reading, Ohio, for an "Improved saw-set."

"What I claim is, the adjustable arm O, with the fingers, and adjusting screw, in combination with the spring trip hammer. I also claim the spring I and trip hammer, in combination with the adjusting frame L, and rollers N, N, and adjusting screws; these several devices I claim, when arranged substantially as herein set forth for the purpose described."

No. 24,409. Isaac C. Shuler, of Amsterdam, N.Y., for an "Improvement in constructing sheet metal coffins."

"I claim, first, the arrangement of strengthening the lower part of a sheet metal coffin, by folding over and soldering together consecutively, in several thicknesses, the surplus metal of the sides and ends of a sheet metal tray *c*, forming

a rim all around the outside circumference of the base, and fastening the walls of the coffin firmly thereto. I claim also, the arrangement of fastening to the underside of this tray or bottom of the coffin the frames *b*, *b*, for the purpose of stiffening it. Second, the arrangement of placing on the inside of a sheet metal coffin a metal tray *d*, with scrolled edges, which rests on a flange formed by turning in the walls of the coffin all round their tower edges, and fastening this tray firmly thereto, and also to the walls, for the purpose of strengthening the structure. I also claim the bars *b* for strengthening this tray. Third, the arrangement of scrolling or folding outwardly and soldering consecutively, each fold of the surplus edges of the walls of a sheet metal coffin, forming a rim all round the upper edge of the walls, for the purpose of strengthening and securing the same in straight lines for jointing, substantially as described. Fourth, the arrangement of forming on the inside of the upper edges of the walls of a sheet metal coffin, a scrolled rim on the piece *c*, for the purpose of more firmly supporting the air-tight cover, and also for the purpose of securing the cover by screws as well as by solder, when desirable. Fifth, the arrangement of fastening on the outside of a sheet metal coffin, between the stiffening rims of the upper and lower edges of the walls, the studs or pillars *o*, at the corners and along the sides and ends in any required number, according to the size of the coffin, for the purpose of stiffening the sheet metal, in order that the structure may sustain a heavy weight. Sixth, the arrangement of scrolling and soldering together the surplus edges of the air-tight cover of a sheet metal coffin, and heading the same, which, on being turned under, serves to fit the groove *c* as well as to stiffen the cover. Also the stiffening bars *h*, substantially as described. Seventh, the arrangement of pressing a recess in the sheet metal, all round the windows of a sheet metal coffin, for receiving and supporting the glass. I also claim the arrangement of supporting the glass by a flange formed by the extension of a second inside sheet of the double cover. Eighth, the arrangement of fastening the glass in these recesses, by means of metal sashes fastened to the coffin lid, as described. Ninth, I claim the flanges formed on the outer edges of the sheet metal blinds *m*, *m*, for the purpose of closing around the metal sash, and securing the glass from the intrusion of dust and from other annoyances. Tenth, I am aware that I have claimed the bisection of a hinged cover, for the joint of the lid of a sheet metal coffin, according to the breaks in the side walls. I claim the cover *j*, as applicable to a coffin with straight side walls in two hinged sections, as described."

No. 24,410. Andrew Simmons, of Nora, Ill., for an "Improvement in seeding machines."

"What I claim, is, the arrangement of the boxes T, in relation to the agitator C, plates N, and O, and in combination therewith, the hollow drill tooth V, the several parts being so constructed as to form a continued broad cast seed and drill."

No. 24,411. Azel Smith, of Westfield, Ohio, for an "Improvement in cultivators."

"What I claim, is, the adjusting brace plates C, C, frames B, B, and cutters D, D, when arranged as described, and in combination with the adjustable mould boards."

No. 24,412. John M. Spooner, of Springfield, Mass., for an "Improvement in the construction of sled runners."

"What I claim, is, making both of the runners and the bearers of a sled or sleigh, or other similar vehicle of one continuous piece or rod of steel or other metal substantially as set forth."

No. 24,413. Enos Stimson, of Plainfield, Vt., for an "Improvement in seeding machines."

"What I claim, is, the arrangement and combination of the shaft F, box E, shaft M, arm O, and box N, as and for the purpose herein shown and described."

No. 24,414. Wm. Mont Storm, of New York, N.Y., for an "Improvement in breech-loading fire-arms."

"What I claim, is, such an arrangement of the links as described, and their connection with the breech-piece and lever, that they shall jam forward and firmly hold the former against the rear of the bore of the barrel after it has ceased its motion transversely to the latter, and vice versa, release the breech piece (in opening the breech) before its movement commences. Second, I claim the perforated breech piece in the manner and for the purpose described. Third, I claim arranging the horn or head of the hammer in the manner and for the purpose described."

No. 24,415. R. Sutton, of East Avon, N.Y., for an "Improvement in the running gear of sleds."

"I claim the arrangement and combination of the sliding collar G, rods *o*, reach E, sliding bolster F, pendents *i*, links *j*, and runners B, as herein shown and described."

No. 24,416. Isaac C. Tate, of New London, Conn., for an "Improved stop-cock."

"I claim the application of the spring A, in the manner substantially as herein set forth and described, and for the purpose described."

No. 24,417. Lewis C. Terry, of Chenango, N.Y., for an "Improvement in whiffletree hooks."

"I claim a hook pivoted or hinged to its supporting eye, which is cut away or flattened on its back in the manner described, so that the point of the said hook being in contact or nearly so, with its said holding eye will securely confine a link, a ring, a staple, a trace, or similar object in all positions, excepting when turned back upon the said flattened or eccentric part of the eye, substantially as set forth in my description. I also claim the right in addition to the above, to so construct the hook and eye that the hook shall have but one motion, viz., a horizontal motion directly around the circle formd by the said eye, so that the said hook shall not drop or work from side to side, and the exclusive right to use the same in either or both the forms above mentioned and described for all purposes for which they may or can be used, when constructed substantially as set forth."

No. 24,418. Joseph Thirlwell, of Galesburg, Ill., for an "Improvement in cultivators."

"I claim the arrangment of the frame A, A, the iron bows (B, B), the hinge bow (C), the tongue braces D, D, and lifting chain E, when constructed and used in combination, for the purposes set forth."

No. 24,419. Franklin Veal, of Hallettsville, Texas, for an "Improvement in seeding machines."

"What I claim is, 1st, the arrangement of the windlass K the hand lever H, and the lever N, in combination with the smoothing roller L, the hopper F, and the harrow M, and in such relation to the driver's seat I that they can be operated from the same, substantially as and for the purpose specified. 2nd, the combination of the fan cylinder *f*, *f*^{1}, with the hopper, substantially as and for the purpose described."

No. 24,420. David Warren, of Gettysburgh, Pa., for an "Improvement in R. R. car couplings."

"What I claim is, the arrangement of the adjustable plate *a*, as constructed with the pin *b*, arm A, rock shaft R, and guards B, when the same are operated and used, substantially in the manner and for the purpose herein set forth."

No. 24,421. Lyman White, of Davenport, Iowa, for an "Improvement in rock drills."

"I claim, 1st, placing the bearings *e* of the shaft D, to which the box M and drill carriage N are attached, in bars C, C, which are fitted in annular parts *c* of the supports B, and arranged substantially as shown, so as to admit of the facile adjustment of the drill P to any angle or position required. 2nd, the employment or use of the racks E on the bars C, C, in connection with the wheels F, G, on the shaft D, the screws H attached to the sliding bearings *e* by the bars *f*, the wheels I on the upper ends of the screws H, and the pins *o*^{1} on the cranks J, the whole being arranged, substantially as shown, to feed the drill to its work."

No. 24,422. Gilbert Yates, of West Dresden, N. Y., for an "Improvement in car couplings."

"I claim the combination of the chains H, H, clasps J, J, with the bent and lifting rods B, B, grooved parts C, C, and chains I, I, arranged in relation to each other, substantially in the manner and for the purposes set forth."

No. 24,423. Wm. Zimmerman, of Quincy, Ill., for an "Improvement in grain hulling machines."

"I claim the conduits arranged to receive the grain scoured or operated upon by the first or each revolving scourer, when operated on a horizontal shaft, and conduct it to the centre or central part of the second or next revolving scourer, and so on in succession through the whole series of scourers, until it passes out of the machine."

No. 24,424. Daniel D. Badger and Wm. S. Sampson, of New York, N. Y., assignors to Daniel D. Badger aforesaid, for an "Improvement in grain bins."

"We claim the arrangement and combination of the metallic bins A, in the manner and for the purposes substantially as herein shown and described."

No. 24,425. JOHN E. COFFIN, of Portland, Maine, assignor to A. F. GERRISH, of same place, for an "Improvement in machines for shaping the backs of books."

"But what I claim is, 1st, the arrangement of the sliding holding jaws and the reciprocating roller carriage, substantially as herein described. 2nd, combining the toggle mechanism, which operates the clamping jaws, and the screw, which operates the roller carriage, with a cam and pulley, or its equivalent, on the same shaft, in such manner as to make a machine for shaping the backs of books, which is perfectly continuous and automatic in its operation, and to and from which the books only require to be introduced and removed by the attendant at the proper stage in its operation, substantially as herein described."

No. 24,426. JOSEPH W. COX, of Malden, Mass., assignor to Horace H. Day, of New York, N. Y., for an "Improved machine for cutting india rubber into threads."

"I claim, 1st, in combination with the concave rotary cutter, substantially as described, the employment of a tube, placed in the concavity thereof, substantially as described, for the discharge of a jet of water against the cutting edge, as described. 2nd, I also claim the carriage with its divided clamp and follower, substantially as described, in combination with a rotary cutter, substantially as described, or any equivalent cutter, for the purpose set forth. 3rd, and, finally, I claim in combination with the carriage clamp and follower, substantially as described, the mechanism, or any equivalent thereof, for operating the follower, substantially as described."

No. 24,427. DANIEL DUNHAM, of Pawtucket, R.I., assignor to D. D. Sweet, James Bromily, and E. W. French, of same place, for a "Compound machine for boring blind slats."

"I claim, 1st, the rack J, or its equivalent, arranged in combination with the sliding carriage F, and with the dog o, as described. 2nd, the lever M arranged with the nose p^1, in such relation to the treadle D, that by its action the dog o is operated as specified."

No. 24,428. BENNET HOTCHKISS, of New Haven, Conn., assignor to himself and F. S. Collins, of same place, for an "Improvement in trip hammers."

"What I claim is, my improved means of operating the hammer, that is, by an air spring cylinder, substantially as described (or its equivalent), applied to the piston and combined with mechanism, by which a rapid reciprocating rectilinear motion may be imparted to such cylinder, essentially in manner and so as to operate the piston and hammer, as specified. I also claim, in combination with the piston trip hammer, the air spring cylinder and the mechanism for imparting to the latter reciprocating rectilinear motions, as described, mechanism, substantially as specified, for varying the altitude of the path of movement of the cylinder, under circumstances as explained, such mechanism as above described, consisting of an eccentric bearing shaft H, applied in boxes I, I, and to the crank shaft G of the cylinder B, substantially as specified."

No. 24,429. JOB JOHNSON, of East Brooklyn, N. Y., assignor to Chas. D. Archibald, of London, England, for an "Improvement in composition for cementing iron."

"What I claim is, the combination and use of lime, bone dust, and charcoal, in the manner and for the purposes substantially herein described."

No. 24,430. FRANCIS MILWARD, of Cincinnati, Ohio, assignor to H. Homan, and W. L. Thomas, and D. D. Hardy, of same place, for an "Improvement in spinning tops."

"What I claim is, a combined gyroscope and spinning top, constructed and operating substantially in the manner set forth."

No. 24,431. DANIEL NICHOLS, of Onargo, Ill., assignor to Chas. Rumley and Edwd. Rumley, of same place, for an "Improvement in seeding machines."

"What I claim is, the combination and arrangement of hinged bars E, H, slotted arc I, driving wheel J, and auxiliary seed hopper F, when the same are arranged and operating in the manner and for the purposes herein specified."

No. 24,432. JOHN S. PALMER, of Providence, R.I., assignor to himself and Chas. S. Capron, of same place, for an "Improvement in rolling metal for jewelry."

"What I claim is, the employment of a tapering die A, in combination with the pressing rollers, substantially as and for the purpose specified."

No. 24,433. E. T. QUIMBY, of New Ipswich, N.H., assignor to himself and Newton Brooks, of same place, for an "Improved attachment for alarm clocks."

"What I claim is, 1st, the wheel A, or its equivalent, having a series of projections a, which, or some of which, can be covered up or removed, and operating in combination with the hammer B, substantially as and for the purpose described. 2nd, the arrangement of the slides F, to operate in combination with the wheel A, and with the hammer B, substantially in the manner and for the purpose specified."

No. 24,434. GEO. W. RICHARDSON, and JAMES W. WHITE, of Grayville, Ill., assignors to themselves and Geo. M. Weed, of White Co., Ill., for an "Improvement in corn harvesters."

"The particular improvement which we claim as having been originally and first invented by us, is, the combination of the gathering wheels L, L, terete rollers H, H, stripping plates M, and guide plates N, as set forth; and we also claim the combination of the fender or guide plates N, meeting the points of the rollers H, with the terete rollers and stripping plates, as set forth."

No. 24,435. ROBT. ROSS, of St. Alban's, Vt., assignor to himself and Geo. J. Stannard, of same place, for an "Improved water wheel."

"I claim the plate or gate F, placed within the water passages a, of the wheel provided with the vertical projections f, at the issues e, and attached to the rod E, within the shaft C, of the wheel, substantially as and for the purpose set forth."

No. 24,436. HENRY WEBB, of Cincinnati, Ohio, assignor to S. L. Wilder, of same place, for an "Improvement in railroad bars."

"What I claim, is, the angular rail herein-above described, when constructed so as to be convertible and present a new surface, after the first surface has been worn out in the manner and for the purposes above specified."

No. 24,437. THOS. BAILEY, of New Orleans, La., for an "Improvement in means for actuating movable parts of fire-arms."—Patented in England, 3rd December, 1858.

"I claim combining a toothed wheel or pinion on a traveling center, and working between guides with a pair of racks, one of which is stationary and the other movable, having connected to it the part of the fire-arm to be moved, the toothed wheel changing its position, or traveling in the same plane with the guides, substantially as herein set forth."

RE-ISSUES.

DAVID G. OLMSTEAD, of Vicksburg, Miss., assignee of R. A. L. McCurdy, of Sabine Parish, La., for an "Improvement in cotton gins."—Patented 26th June, 1855; Re-issued, 15th July, 1856; again re-issued, 14th June, 1859.

"What I claim as the above-described invention, and desire to secure by Letters Patent, is, the revolving screen, cylinder, or shaft, situated in the hopper or roll-box, so that the 'roll' moves around it, when constructed and arranged substantially in the manner described, whether as a single or double device, so as to perform any or all of the functions as herein specified. I also claim, discharging the hulls and trash from the roll-box, through the sides of the cotton gin, as above set forth."

ABEL W. STREETER, of Shelburne Falls, Mass., for an "Improvement in fastening centre bits."—Patented 23rd January, 1855.—Re-issued 14th June, 1859.

"What I claim is, fastening a bit in its stock by means of a projection on one and a suitable recess for it on the other, when combined with mechanical pressure or friction that will hold the projection and recess together, substantially as described."

Designs.

S. W. Gibbs, of Albany, N. Y., assignor to Abbott and Lawrence, of Philadelphia, Pa., for a "Design for stove plates."

"What I claim is, the ornamental configuration of the plates of a premium cooking stove, as fully set forth and described."

S. W. Gibbs, of Albany, N. Y., assignor to Abbott and Lawrence, of Philadelphia, Pa., for a "Design for stove plates."

"What I claim as my invention or production is, the ornamental configuration and combination of ornaments of a six plate wood stove."

S. W. Gibbs, of Albany, N. Y., assignor to Rathbone and Co., of Albany, N. Y., for a "Design for tops and bases of sheet-iron stoves."

"What I claim as my invention or production, and desire to secure by Letters Patent, is, the combination of the different ornamental figures and forms and configuration of the mouldings of the top and base and door of a sheet iron parlour or wood stove, as herein set forth and described."

James S. McCurdy, of Brooklyn, N.Y., assignor to John M. Myers, of New York City, for a "Design for the arms of sewing machines."

"What I claim is, the ornamental design of the arms for sewing machines, as shown in the drawing."

Additional Improvement.

Charles Robinson, of Cambridgeport, Mass., for an "Improvement in the construction of chairs, sofas, &c."—Patented 9th March, 1858.—Additional improvement dated 14th June, 1859.

"What I claim as my invention, and desire to secure by Letters Patent, additional to the original improvement, is, the spring plate D, arranged and operating in combination with the supporting blocks B, B, substantially as herein specified."

List of Specifications published during the week ending 1st July, 1859.

No.	Price.	Subject-Matter.
2661	3*d.*	Fabric for covering floors and walls, &c.
2662	10*d.*	Gas fittings.
2663	6*d.*	Cigar cases.
2664	3*d.*	Ball-proof shields or mantlets.
2665	3*d.*	Mills for grinding corn.
2666	1*s.*	Machinery for making bolts and rivets.
2668	3*d.*	Manufacture of paper cartridges, &c.
2669	11*d.*	Lighting, heating, and ventilating.
2670	3*d.*	Electro-motive apparatus.
2671	3*d.*	Apparatus for raising and supporting ships or vessels.
2672	4*d.*	Manufacture of size.
2673	3*d.*	Purification of gas.
2674	1*s.*	Valves for regulating the supply of steam.
2675	10*d.*	Safeguard against burglars.
2676	3*d.*	Petticoat and bustle.
2677	3*d.*	Composition for sizing cotton, linen, &c.
2678	6*d.*	Candlesticks.
2679	7*d.*	Looms for weaving.
2680	10*d.*	Gas regulators.
2681	5*d.*	Steam trap.
2682	3*d.*	Preparation of coloring matter for dyeing.
2683	6*d.*	Drawers or trousers for ladies or children.
2684	3*d.*	Rollers for sizing, dressing, &c.
2685	3*d.*	Manufacture of welded iron tubes.
2686	3*d.*	Governors for marine engines.
2687	1*s.* 3*d.*	Parasols.
2688	3*d.*	Manufacture of leather.
2689	3*d.*	Machinery for compressing bales.
2690	3*d.*	Apparatus for brightening and polishing metal surfaces.
2691	10*d.*	Machinery for preparing and spinning cotton, &c.
2692	10*d.*	Gas meters.
2693	7*d.*	Lubricators.
2694	3*d.*	Manufacture of paper.
2695	5*d.*	Hydraulic presses.
2696	7*d.*	Water meters, &c.
2697	3*d.*	Weaving.
2698	1*s.* 4*d.*	Treating, preparing, and bleaching textile fabrics, &c.
2699	3*d.*	Preserving life and property in navigation.
2700	3*d.*	Utilizing waste heat from slags.
2701	1*s.* 1*d.*	Traction engines and carriages.
2702	10*d.*	Jugs.
2703	3*d.*	Manufacture of shirts and shirt fronts.
2704	5*d.*	Pattern chains for weaving.
2705	3*d.*	Manufacture of gas.
2706	4*d.*	Manufacture of alkalies, &c.
2707	6*d.*	Manufacture of scissors.
2708	3*d.*	Static pressure engine.
2709	3*d.*	Manufacture of bridles.
2710	1*s.* 7*d.*	Manufacture of spokes for wheels, &c.
2711	7*d.*	Steam engines.
2712	9*d.*	Carboys, barrels, &c.
2713	9*d.*	Apparatus for melting fat, tallow, &c.
2714	4*d.*	Manufacture of electric telegraph wires and cables.
2715	3*d.*	Treatment of vegetable fibres.
2716	11*d.*	Machinery for the manufacture of boots and shoes, &c.
2717	10*d.*	Locomotive engines.
2718	5*d.*	Petticoats.
2719	1*s.*	Manufacture of files.
2720	1*s.* 4*d.*	Manufacture of elastic fabrics, &c.
2721	8*d.*	Apparatus for preserving ships' papers.
2722	3*d.*	Purifying animal charcoal.
2723	1*s.* 7*d.*	Pumps and water gauges.
2724	3*d.*	Watch.
2725	3*d.*	Railroad.
2726	3*d.*	Smoothing irons.
2727	3*d.*	Manufacture of braided articles.
2728	3*d.*	Machinery for raising water, &c.
2729	6*d.*	Preventing the fusion of fire-bars in locomotive or other furnaces.
2730	7*d.*	Fastenings for belts, braces, garters, &c.
2731	3*d.*	Furnaces.
2732	3*d.*	Telegraphy.
2733	1*s.* 1*d.*	Machinery for cutting and shaping staves, &c.
2734	6*d.*	Threshing and dressing machines.
2735	3*d.*	Manufacture of cravats, braces, &c.
2736	10*d.*	Railway chairs and fastenings.
2737	3*d.*	Ornamenting the surfaces of japanned goods, &c.
2738	6*d.*	Manufacture of coke.
2741	3*d.*	Colouring threads.
2742	8*d.*	Marine and other steam engines.
2758	3*d.*	Obtaining and applying motive power.
2770	4*d.*	Arithmetical machines.
2779	10*d.*	Actuating railway breaks.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Museum of Patents, South Kensington.

Number of Visitors for the Week ending 2nd July, 1859.

Mornings - - - -	1314
Evenings - - - -	787
Total - - -	2101

Since the opening of the Museum Free Daily (May 12, 1858,)—114,012.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum o be addressed to the Superintendent,

B. Woodcroft.

Great Seal Patent Office,
Southampton Buildings.

Gallery of Portraits of Inventors, Discoverers, and Introducers of Useful Arts.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

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REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of 2*l.* 3*s.* 11½*d.*

FIRE-ARMS, PROJECTILES, &c.—The series of Specifications and Drawings on this Subject, from 15th May, 1718, to 31st December, 1853, with Alphabetical and Subject-matter Indexes, may be obtained at the cost price of 9*l.* 18*s.* 6½*d.*

The Indexes, separately, price 3*s.*

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. Curtis for a Patent. Price 1*s.*

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s.* 6*d.*

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At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

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Manufacture and Applications of India Rubber, Gutta Percha, &c.; including Air, Fire, and Water Proofing.
Production and Applications of Gas.
Steam Engines.

B. Woodcroft.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 575. FRIDAY, JULY 8, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1488. To GEORGE TOMKINS, of Pontymister, near Newport, in the county of Monmouth, Tin Plate Worker, for the invention of "Improvements in coating metals and in the apparatus connected therewith."

1490. To STEPHEN GIBBS, of Eddington, parish of Herne, near Canterbury, in the county of Kent, for the invention of "Improvements in apparatus for slinging horses, mules, and other animals."

1492. To JAMES MEIKLE, of 79, Rumford Street, Glasgow, for the invention of "Improvements in coating iron ships with asphalte, which improvements are also applicable to coating other surfaces."

1496. And to EBENEZER OLIVER, of King William Street, in the city of London, for the invention of "Improved medicinal mixtures for the cure of rheumatism, tic-doloreux, lumbago, cramp, sciatica, and such like complaints."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of June, 1859.

1502. To WILLIAM GOULDING, of the borough of Leicester, in the county of Leicester, Plough Maker, for the invention of "Improvements in the construction of ploughs."

1504. To WILLIAM RUSSELL, of the borough of Leicester, in the county of Leicester, Ironmonger, for the invention of "Improvements in wheels for ploughs, cultivators, and other implements or carriages."

1506. And to JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the county of Gloucester, for the invention of "Improvements in the manufacture of wheels for carriages and engines."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of June, 1859.

1508. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A machine for corking bottles." — A communication from abroad, by Jacques Peury, No. 10, Rue Mogador, Paris, in the empire of France.

1509. To CROMWELL FLEETWOOD VARLEY, of No. 4, Fortess Terrace, Kentish Town, and CORNELIUS JOHN VARLEY, No. 7, York Place, Kentish Town, St. Pancras, Middlesex, for the invention of "Improvements in proving electric conductors, and in the apparatus connected therewith."

1511. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W. C., for the invention of "Improvements in the manufacture of artificial sandstone, bricks, tiles, and similar articles."—A communication from abroad, by Léon and Edouard Pavin de Lafarge, Merchants, residing at Viviers, département de l'Ardéche, in the empire of France.

1513. To ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for the invention of "Improvements in alarum locks and latches."

1514. To HENEY DOULTON, of Lambeth, for th invention of "Improvements in earthenware jars and bottles."

1515. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in springs for resisting sudden and continuous pressure."—A communication from abroad, by Charles Perratone,

Engineer, and Messrs. J. F. Cail and Co. Mechanicians, of Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of June, 1859.

1516. To WILLIAM LISTER, junior, Master Mariner, and THOMAS GILBERT GARRICK, Agent, both of Sunderland, in the county of Durham, for the invention of "Improvements in ships' windlasses, and other like apparatuses, applicable also to the steering of ships."

1517. To JAMES MILLS, of Heaton Norris, in the county of Lancaster, Machinist, for the invention of "Improvements in the manufacture of keys and gibs, and in the machinery employed therein."

1518. To AUGUSTE CHESNEAU, of 29, Boulevart St. Martin, Paris, in the empire of France, Merchant, for the invention of "Improvements in paddlewheels."

1519. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in sewing machines."—A communication from abroad by Mr. James Snow Goodridge, of 29, Boulevart St. Martin, Paris, Merchant.

1520. To GEORGE REDRUP, of the Loughborough Brewery, Loughborough, in the county of Leicester, Brewer, for the invention of "Machinery for the cutting of shives, bungs, corks, spiles, and vent or other pegs."

1521. To RICHARD HORNSBY, junior, of Spittlegate Iron Works, Grantham, in the county of Lincoln, for the invention of "Improvements in ploughs and in giving motion to ploughs and other agricultural implements by steam power."

1522. To PROSPER FAURE and JULES PERNOD, of Avignon, in the empire of France, for the invention of "An improved process for utilising the residues of madder in the manufacture of garancine and other preparations of madder."

1523. And to JOHN DRURY, of Exley, near Halifax, in the county of York, Engineer, for the invention of "Improvements in steam engines and boilers."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of June, 1859.

1524. To THOMAS HOWARD, of King and Queen Iron Works, Rotherhithe, in the county of Surrey, Engineer, for the invention of "Improvements in condensing steam in engines where superheated steam is used."

1525. To WILLIAM JAMES SLUCE, of Bethnal Green Road, in the county of Middlesex, OWEN MURRELL, of Edward Street, Bethnal Green Road, aforesaid, and WILLIAM HUDSON, of Hackney Road, in the county of Middlesex, for the invention of "An improved method of generating steam."

1526. To CHARLES WYE WILLIAMS, of Liverpool, in the county of Lancaster, for the invention of "Improvements in steam boilers."

1527. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Apparatus for exhibiting stereoscopic pictures."—A communication from abroad by J. Stuart Perry, of Newport, in the state of New York, United States of America.

1528. To JOHN ROBERTS, of Upnor, in the county of Kent, Terra Cotta Manufacturer, for the invention of "Improvements in filters."

1529. To JOHN BODEN, of Portswood Road, Southampton, Engineer, and WILLIAM CLARK, of Northern Road, Southampton aforesaid, Boiler, Maker, for the invention of "Improvements in apparatus for superheating steam."

1530. To SAMUEL RUSSELL, of Sheffield, in the county of York, Manufacturer, for the invention of "Improvements in breech-loading fire arms, and in projectiles to be used therewith."

1531. And to WILLIAM COPPIN, of Strand Foundry, Londonderry, Marine Architect and Engineer, for the invention of "Improvements in apparatus for raising sunken and stranded vessels and their cargoes, and for raising and lowering other bodies into, and out of, the water, part of which improvements are applicable to raising weights generally."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of June, 1859.

1533. To GEORGE WRIGLEY, of the firm of Messrs. Cryer, Lees and Company, of Dukinfield, in the county of Chester, Machine Makers, and THOMAS HIRAM WRIGLEY, of Mossley, in the county of York, Overlooker, for the invention of "Improvements in self-acting mules for spinning and doubling."

1534. To DANIEL JOSEPH FLEETWOOD, of Birmingham, in the county of Warwick, Copper Agent, for the invention of "An improvement or improvements in shaping metals."

1535. To BETHEL BURTON, of Brooklyn, in the state of New York, United States of America, for the invention of "Improvements in breech-loading fire-arms."

1536. To GILBERT SMITH, of Buttermilk Falls, Orange County, in the state of New York, United States of America, Engineer, for the invention of "An improved construction of primer for fire arms."

1537. And to THOMAS LEIGH, of St. Mary Cray, in the county of Kent, Millwright, and JOB LINE, of the same place, Paper Maker, for the invention of "An improvement in paper-making machinery."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of June, 1859.

1540. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improved machinery for cutting corks."—A communication from abroad by Edward Conroy, of Boston, in the United States of America.

On his petition recorded in the Office of the Commissioners, on the 28th day of June, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

1561. LEVI LINCOLN TOWER, of the state of Massachusetts, of the United States of America, praying for Letters Patent for the invention of "A new and useful machine for dampening and wetting paper, etc."—a communication from John A. Lynch, a resident of Boston, of the said state of Massachusetts,—was deposited and recorded in the Office of the Commissioners on the 30th day of June, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

8th July, 1859.

69. JOHN THOMAS FORSTER, of Holland Road, Kensington, in the county of Middlesex, Gentleman, for an invention of "Improvements in bed berths, applicable for bunks, hammocks, cots, and other fixed and moveable sleeping places."—Dated 8th January, 1859.

72. ROBERT DAWSON CLEGG, of Manchester, in the county of Lancaster, for an invention of "Improvements in signalling apparatus."—Dated 10th January, 1859.

83. WILLIAM TILLIE, of the city of Londonderry, in the county of Londonderry, Ireland, Shirt Manufacturer, for an invention of "An improvement in the manufacture of shirts and shirt fronts."—Dated 11th January, 1859.

84. DAVID EDWARD HUGHES, of New York, but now residing at Northampton Square, in the county of Middlesex, Telegraphic Engineer, for an invention of "An improved mode of insulating electrical conducting wires."—Dated 11th January, 1859.

87. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, for an invention of "Improvements in supports for electric telegraphic line wires, and in tools or apparatus to be used in the construction of such supports, part of which improvements are applicable to the joining of pipes and other articles."—Dated 11th January, 1859.

88. FREDERICK VERSMANN and ALPHONS OPPENHEIM, of Bury Court, St. Mary Axe, in the city of London, Analytical Chemists, for an invention of "Improvements in rendering fabrics and substances non-inflammable."—Dated 11th January, 1859.

89. NICHOLAS PROCTER BURGH, of Sheerness, Engineer, for an invention of "Improvements in steam engines."—Dated 11th January, 1859.

92. WILLIAM OLIVER, of Shadwell, in the county of Middlesex, for an invention of "Improvements in boats, and in the mode of propelling them."—Dated 12th January, 1859.

103. CHARLES BESLAY, of 52, Rue St. Sebastien, Paris, in the empire of France, Engineer, for an invention of "Improvements in coating or covering iron or steel with tin, zinc, or lead, or alloys of those metals, by electrical deposit."—Dated 12th January, 1859.

105. RICHARD ASHTON LIGHTOLLER, of Chorley, in the county of Lancaster, Cotton Spinner, for an invention of "Certain improvements in machinery or apparatus for spinning cotton or other fibrous materials."—Dated 13th January, 1859.

118. THOMAS HERBERT, of the firm of Thomas Herbert and Company, of Nottingham, and EDWARD WHITAKER, also of Nottingham, for an invention of "Improvements in the manufacture of warp lace."—Dated 13th January, 1859.

126. JOHN DAUGLISH, of Tunbridge Wells, M.D., for an invention of "Improvements in obtaining carbonic acid gas."—Dated 14th January, 1859.

181. JOSIAH LATIMER CLARK, of Haverstock Hill, and JOHN MUIRHEAD, of Gloucester Road, Regent's Park, both in the county of Middlesex, for an invention of "Improvements in electric telegraphs, and in the apparatus used in working the same."—Dated 20th January, 1859.

211. ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement in the manufacture of cast steel."—Dated 24th January, 1859.

236. ISAAC HAMMOND, of the city of Winchester, in the county of Hants, Gun Maker, for an invention of "Improvements in breech loading fire arms, and in cartridges to be used therewith."—Dated 26th January, 1859.

265. JOSIAH LANE, of West Bromwich, in the county of Stafford, Machinist, for an invention of "New or improved machinery for the manufacture of screws, and for tapping nuts for screws."—Dated 29th January, 1859.

278. JOHN PETER BOOTH, of Cork, in the kingdom of Ireland, Feather Factor, for an invention of "Improvements in ventilating ships."—Dated 31st January, 1859.

497. GEORGE TURNBULL, of Calcutta, in the province of Bengal, in the East Indies, Civil Engineer, for an invention of "Improvements in the permanent way of railways."—Dated 23rd February, 1859.

1083. JOSEPH TOUSSAINT, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "A new process of modelling and moulding for galvano-plastic."—Dated 30th April, 1859.

1153. RICHARD PEARSALL, of Smethwick, in the county of Stafford, Glass Blower, for an invention of "Improvements in the manufacture of glass shades."—Dated 7th May, 1859.

1155. RICHARD DUGDALE KAY, of Accrington, in the county of Lancaster, Manufacturer of Patent Fabrics, for an invention of "Improvements in the preparation of certain colouring matters."—A

communication from abroad by Dollfus, Mieg, and Co., residing at Mulhouse, France.—Dated 7th May, 1859.

1203. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for treating india rubber and other similar gums."—A communication from abroad by Austin G. Day, of Seymour, Connecticut, United States of America. —Dated 13th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 5th July* 1859, *inclusive*).

4th July.

1578. JOSEPH LEWTAS, of the city of Manchester, Manufacturer of Venetian and other Blinds, and JOHN HUMPHREYS the younger, of the same place, Mechanic, for an invention of "Improvements in apparatus for holding and releasing cords, chains, bands, or bars."—Dated 5th July, 1856.

1583. LORENZO BLACKSTONE, of Lawrence Lane, in the city of London, Merchant, for an invention of "Improvements in the manufacture of corks and bungs."—Dated 5th July, 1856.

5th July.

1587. ALFRED LOUIS STANISLAS CHENOT and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (empire of France), Chemists, for an invention of "A method of extracting eliminating extraneous substances from steel sponges."—Dated 7th July, 1856.

1588. ALFRED LOUIS STANISLAS CHENOT and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (empire of France), Chemists, for an invention of "Improvements in sorting ores or separating metals from each other and from certain combinations with other substances." —Dated 7th July, 1856.

1589. ALFRED LOUIS STANISLAS CHENOT and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (empire of France), Chemists, for an invention of "Improvements in machinery for compressing metallic sponges and other substances."—Dated 7th July, 1856.

1590. ALFRED LOUIS STANISLAS CHENOT and EUGÈNE CHARLES ADRIEN CHENOT, of Clichy-la-Garenne, near Paris (empire of France), Chemists, for an invention of "Improvements in apparatus for the reduction of metallic oxydes."—Dated 7th July, 1856.

1595. WILLIAM LAING, of Denny, in the county of Stirling, North Britain, Manager, for an invention of "Improvements in stretching or breadthening woven fabrics."—Dated 7th July, 1856.

Notice of Application for leave to enter a Disclaimer.

In the matter of Letters Patent, granted to WILLIAM ECCLES, of Blackburn, Power-loom Manufacturer, WILLIAM CROOK, of Livesey, Hand-loom Weaver, and WILLIAM LANCASTER, Power-loom Weaver, of Blackburn, all in the county of Lancaster, bearing date at Westminster the 18th day of September, 1845, for "Certain improvements in looms for weaving."

Notice is hereby given, that the said WILLIAM CROOK, sole surviving Patentee of the above Letters Patent, has applied to the Solicitor General for leave, certified by his fiat and signature, to enter with the clerk of the Patents for England, a Disclaimer of certain parts of the Specification of the said Letters Patent.

HUGHES and BLOODWORTH,
17, Cross Street, Manchester,
HUGHES and SON,
123, Chancery Lane, London,
Agents for the Petitioner.

Dated this 6th day of July, 1859.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

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France, No. 228.
Greece, No. 325.
Germany, No. 435.
Hanover, No. 231.
India, Nos. 240, 348, and 552.
Mexico, No. 496.
Netherlands, No. 289.
New South Wales, No. 380
Frussia, Nos. 313 and 329.
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Portugal, No. 325.
Poland, No. 335.
Roman States, No. 319.
Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 527 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents which were Delivered, Prolonged, or became Void during the Month of April, 1859.†

(Communicated by the Austrian Government.)

1. Patents Delivered.

1. Joseph Werdosi, of Ofen, for "A machine on vessels worked by horses for propelling said vessels."—1 year.—(Secret.)—Dated 1st April, 1859.

2. Julius Modest Count Regis, of Turin, represented by Georg Märkl, Vienna, for "An electrical apparatus applicable to jacquard looms for weaving figured fabrics."—1 year.—(Secret.)—Dated 1st April, 1859.

3. Johann Justin Albert von Bronac and Augustin Joseph Martial Deherrypon, of Batignolles, near Paris, represented by Georg Märkl, Vienna, for "A peculiar process for treating sulphurous metals, phosphorous metals, amalgams of arsenic, alloys of antimony, &c., and especially lead ores, copper ores, and zinc ores, combined with sulphur."—1 year.—(Secret.)—Dated 1st April, 1859.

4. Stephan Zsiros and J. Mihalovits, of Pesth, for "A chromographic rotary printing machine, whereby different colours may be printed at the same time in the manufacture of playing cards and other objects, such as pictures, vignettes, labels, &c."—1 year.—(Secret.)—Dated 2nd April, 1859.

5. Berthold Curant and Ignaz Dornauet, of Vienna, for "An iron piece of furniture which may be converted into a field bed, chair, or into a table and chair at the same time."—1 year.—(Public.)—Dated 2nd April, 1859.

6. Christoph Haller, of Gratz, for "Improvements in his fire and water-proof pasteboard for covering roofs, &c. by the addition of oakum thereto."—1 year.—(Secret.)—Dated 2nd April, 1859.

7. Jacob Ludwig Lemaire, of Paris, represented by Cornelius Kasper, of Vienna, for "Improvements in atmospheric fulminating toys."—1 year.—(Secret.)—Dated 4th April, 1859.

8. Anton Wiesner and Ferdinand Biber, of Vienna, for "Improvements in American ice-cellars."—1 year.—(Secret.)—Dated 4th April, 1859.

9. Marie Mally, of Vienna, for "Obtaining an article for the toilette from Oriental plants for preserving the hair, said article being called 'Meditrina.'"—1 year.—(Secret.)—Dated 4th April, 1859.

10. Lorenz Nemelka, of Fischamend, Lower Austria, for "Improvements in machines for cleaning and rolling corn."—1 year.—(Secret.)—Dated 6th April, 1859.

11. Michael Hoffmann and Franz Neuner, of Vienna, for "Improvements in safety baskets to be used in cleaning windows, and for protecting children and flower-pots from falling down."—1 year.—(Public.)—Dated 7th April, 1859.

12. Ferdinand Neiber and Heinrich Breiter, of Vienna, for "Improvements in the manufacture of tobacco-pouches."—1 year.—(Secret.)—Dated 7th April, 1859.

13. Moriz Wilhelm Schloss, of Vienna, for "A machine for making pins with heads forged on, and which cannot be separated from the shanks."—3 years.—(Secret.)—Dated 7th April, 1859.

14. Moriz Thilen and Moriz Plank, of Vienna, for "Improvements in the former's universal autographic and copying press."—1 year.—(Public.)—Dated 9th April, 1859.

15. J. B. Herah, of Vienna, for "Manufacture of parasols in the shape of flowers."—1 year.—(Secret.)—Dated 9th April, 1859.

16. Anton Ludwig Adolph Favier, of Paris, represented by Georg Märkl, Vienna, for "A peculiar process for improving hides badly tanned."—1 year.—(Secret.)—Dated 9th April, 1859.

17. Fabius Mainardi, of Lyons, represented by Georg Märkl, Vienna, for "A magneto-electrical machine for spooling and measuring, silk with a counting and dividing apparatus."—1 year.—(Public.)—Dated 9th April, 1859.

18. Joseph Mandl, of Pest, for "Improvements in making bookbinders' work by means of a peculiar glue."—1 year.—(Secret.)—Dated 9th April, 1859.

19. Bland William Croker, of Vienna, for "Improvements in cocks for the flow and passage of fluids and gases, whereby a better direction of the same is obtained."—2 years.—(Public.)—Dated 9th April, 1859.

20. Adolph Pirker, of Bleyberg-Kreuth of Villach, Carinthia, for "Improvements in his Patent oil candlestick for mines and domestic purposes, and a safety oil flask combined therewith, and which may be used as a lamp."—1 year.—(Public.)—Dated 10th April, 1859.

21. M. A. Spitzer, of Vienna, for "A peculiar mode of manufacturing articles of cotton chenille."—1 year.—(Secret.)—Dated 10th April, 1859.

22. Alexander Weiss, of Pest, for "Waterproofing foot coverings of women and men."—1 year.—(Secret.)—Dated 11th April, 1859.

23. Johann Grantham, of Liverpool, represented by August Lenz, Vienna, for "Improvements in

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

the construction of locomotive boilers and other steam boilers, whereby their power of generating steam is increased."—3 years.—(Public.)—Dated 11th April, 1859.

24. Johann Mario Ludwig Arnier, of Marseille, represented by Georg Märkl, Vienna, for "Improvements in steam engines."—1 year.—(Public.)—Dated 11th April, 1859.

25. Otto Fänger, of Vienna, for "A peculiar stamping press."—1 year.—(Public.)—Dated 11th April, 1859.

26. Friedrich Rödiger, of Vienna, for "Improvements in percussion locks with priming apparatus."—1 year.—(Secret.)—Dated 11th April, 1859.

27. Moriz Grünhuth, of Pesth, for "Improvements in the manufacture of cordwain, morocco leather, calf and cow leather, by an addition of grease."—1 year.—(Secret.)—Dated 11th April, 1859.

28. Carl Rettig and Carl Lönicker, of Pesth, for "A peculiar soldering water."—1 year.—(Secret.)—Dated 11th April, 1859.

29. Anton von Sibrik, of Csecsen, near Raab, Hungary, for "Improvements in his mowing and harvesting machine."—1 year.—(Public.)—Dated 11th April, 1859.

30. Maximilian Stein, of Fünfhaus, near Vienna, for "Improvements in the manufacture of half boots and other foot coverings."—1 year.—(Secret.)—Dated 13th April, 1859.

31. Johann Heinrich Wilhelm Daniel Wagner, of Paris, represented by Georg Märkl, Vienna, for "An apparatus for purifying, heating, and filtering the feed water of steam boilers, being also applicable to other purposes."—1 year.—(Secret.)—Dated 13th April, 1859.

32. Carl Pietzsch, of Lemberg, and Liepe Jiegermann, of Drohobycz, Galicia, for "Obtaining a colourless, crystal lighting substance, called crystalline, from rock-oil, or so-called 'naphtha.'"—2 years.—(Secret.)—Dated 13th April, 1859.

33. Hermann Someiller, of Seraing, Belgium, represented by Georg Märkl, Vienna, for "An apparatus for boring rocks in mines."—1 year.—(Public.)—Dated 13th April, 1859.

34. Friedrich Paget, of Vienna, for "Improvements in the manufacture of emery, glass, and diamond canvass and paper."—1 year.—(Secret.)—Dated 13th April, 1859.

35. Otto Schütte, of Prague, for "A peculiar process, whereby great advantages may be obtained in the manufacture of coke from pit coal and peat."—1 year.—(Secret.)—Dated 13th April, 1859.

36. Rudolph Laube, of Saaz, Bohemia, for "A folding bonnet which may be converted into a fan."—1 year.—(Secret.)—Dated 13th April, 1859.

37. Friedrich Lang, of Storé, Styria, for "A process for obtaining cast steel of a certain hardness directly from pig iron."—2 years.—(Secret.)—Dated 13th April, 1859.

38. Michael Müller, of Papa, Hungary, for "A peculiar mode of fastening buttons of men's dresses."—1 year.—(Secret.)—Dated 15th April, 1859.

39. Hermann Spiller, of Totis, Hungary, for "Improvements in the manufacture of rugs for horses, and carpets of all shades, and also the so-called 'dark Thalmo mantle cloth.'"—1 year.—(Secret.)—Dated 18th April, 1859.

40. Leopold Hoffmann, of Temeswar, for "Improvements in fixing buttons of men's dresses, and in suspending the same."—5 years.—(Secret.)—Dated 18th April, 1859.

41. Marcus Fried, of Eperies, for "Rendering those parts in ladies' dresses that are most exposed to wear and tear more durable by the use of a peculiar sewing material."—1 year.—(Secret.)—Dated 18th April, 1859.

42. Jacob Haufmann, of Pesth, for "A composition for waterproofing foot-coverings."—1 year.—(Secret.)—Dated 18th April, 1859.

43. Andreas Gran, of Vienna, for "Improvements in blacking."—1 year.—(Secret.)—Dated 18th April, 1859.

44. Ernst Heinrich Burkhardt, of Aussig-on-the-Elbe, for "A peculiar method for obtaining aluminous ultramarine."—5 years.—(Secret.)—Dated 19th April, 1859.

45. Bernhard Bucher, of Pesth, for "A machine for mixing flour and other pulverized substances."—1 year.—(Secret.)—Dated 19th April, 1859.

46. Joseph Alois Widemann, of Atzgersdorf, near Vienna, for "Improvements in the manufacture of press-yeast by using a peculiar self-acting pressing machine."—1 year.—(Secret.)—Dated 19th April, 1859.

47. Joseph Beck, of Gaudenzdorf, near Vienna, for "Obtaining a black colour for dyeing silk from waste not used thereto till now."—1 year.—(Secret.)—Dated 19th April, 1859.

48. Nikolaus Rabe, Martin Riener, of Vienna, and Vincenz Gurnigg, of Laibach, for "Protecting timber from rot by impregnating the same with a solution of shining soot, or with peat-water."—1 year.—(Public.)—Dated 19th April, 1859.

49. Peter Eduard Fraisinet, of Paris, represented by Georg Märkl, Vienna, for "Iron surfaces for paving streets, for floors, bridges, buildings, &c."—1 year.—(Public.)—Dated 20th April, 1859.

50. Eduard Elsden Goldsmid, of Paris, represented by Georg Märkl, Vienna, for "A stove heated by means of coke for cooking and other purposes."—1 year.—(Public.)—Dated 20th April, 1859.

51. Emil Rousseau, of Paris, represented by Cornelius Kasper, of Vienna, for "A peculiar process, chiefly applicable to refining sugar, for discolouring and purifying juice or the immediate products of plants."—1 year.—(Secret.)—Dated 20th April, 1859.

52. Elias Kohn, of Gran, for "Rendering single parts of men's dresses most exposed to wear and tear more durable by the use of a peculiar sewing material."—1 year.—(Secret.)—Dated 20th April, 1859.

53. Mathias Deutsch, of Altofen, for "Obtaining a better fit in fur dresses and caps by means of an elastic string."—1 year.—(Secret.)—Dated 20th April, 1859.

54. Andreas Link, of Vienna, for "Improvements in his so-called 'Nut pomatum.'"—5 years.—(Secret.)—Dated 20th April, 1859.

55. Maria Rossig, Gabrieli, and Leopoldin von Ullrichsthal, of Vienna, for "Improved locomotives for travelling on gradients."—1 year.—(Secret.)—Dated 21st April, 1859.

56. Wilhelm Dittmann, of Pesth, for "A peculiar distilling apparatus for alcoholic liquids."—2 years.—(Secret.)—Dated 22nd April, 1859.

57. Friedrich Kirst, of Prague, for "An expansion slide apparatus, applicable to all steam engines, whereby a considerable saving of coal is obtained, and whereby the machines work more steadily and easier."—2 years.—(Secret.)—Dated 22nd April, 1859.

58. Moriz Ujhelyi, of Pesth, for "Improvements in the manufacture of candles at all seasons."—1 year.—(Secret.)—Dated 22nd April, 1859.

59. Franz Kouff, of Vienna, for "A steam apparatus for distilling resin, whereby a purer product and a greater amount of resin and turpentine oil is obtained, and whereby all danger from fire is removed."—1 year.—(Secret.)—Dated 22nd April, 1859.

60. J. K. Defeher, of Vienna, for "A bodice for children."—1 year.—(Public.)—Dated 22nd April, 1859.

61. Joseph Pohlmann, of Vienna, for "A peculiar aromatic tooth paste."—5 years.—(Secret.)—Dated 22nd April, 1859.

62. Joseph Markowsky, of Vienna, for "A liquid for the hair, called 'poll water.'"—1 year.—(Secret.)—Dated 23rd April, 1859.

63. Franz and Johann Niessner, of Vienna, for "Obtaining an oil-varnish from fats not used hitherto, which is equal to linseed oil varnish, and being exempt from lead is especially applicable to paints of white of zinc."—1 year.—(Secret.)—Dated 23rd April, 1859.

64. Ernst Guignet, of Paris, represented by A. Martin, Vienna, for "Improvements in the manufacture of hydrate of chromic oxide."—1 year.—(Secret.)—Dated 23rd April, 1859.

65. Nich. Ronsperger, of Vienna, for "Wicks consisting of two parts which divide themselves whilst burning and require no snuffing."—6 years.—(Secret.)—Dated 26th April, 1859.

66. Adolph Goldberg, of Komorn, for "Improvements in the manufacture of pockets of men's dresses."—1 year.—(Secret.)—Dated 26th April, 1859.

67. Otto Lahmann, of Vienna, for "Ascending rivers on boats propelled by horses or oxen on board."—1 year.—(Public.)—Dated 26th April, 1859.

68. Friedrich Wilhelm Schack, of Steyr, Upper Austria, for "Suspending bell clappers by means of hinges instead of leather straps."—1 year.—(Secret.)—Dated 26th April, 1859.

69. Alois Bing, of Pesth, for "An improved method of fastening buttons on all kinds of men's dresses."—1 year.—(Secret.)—Dated 28th April, 1859.

70. Samuel F. Goldberger and Sons, of Pest, for "Improvements in moire mangles for cotton linen and mixed fabrics by applying an iron table thereto."—2 years.—(Secret.)—Dated 28th April, 1859.

71. Franz Herold, Joseph Pankl, and Ferdinand Scheithauer, of Penzing, near Vienna, for "Improvements in a machine for printing cloth as patented by the former two on the 14th August, 1858."—1 year.—(Secret.)—Dated 28th April, 1859.

72. Friedrich Wiese, of Vienna, for "Improvements in fireproof iron chests."—1 year.—(Public.)—Dated 28th April, 1859.

73. Friedrich Wiese, of Vienna, for "A peculiar apparatus for preventing the illicit opening of Bramah locks."—1 year.—(Public.)—Dated 29th April, 1859.

74. Carl Mezzanotte, of Milan, for "A peculiar mechanism, whereby telegraphic messages are conveyed by a single metal wire, and appear in printed letters at the next station."—1 year.—(Secret.)—Dated 29th April, 1859.

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2. Patents Prolonged.

1. Luigi Cardone (Carlo Armelino Butti, assignee), for "A process for purifying oil of cotton seed."—2nd year.—(Secret.)—Dated 29th March, 1858.

2. Andreas Eduard Gill, for "An apparatus for drying and preserving corn in magazines, granaries, &c."—4th year.—(Secret.)—Dated 8th March, 1856.

3. Anton Alphons Chassepot, for "A means of fastening fire-arms and mechanism for breech-loading."—2nd year.—(Secret.)—Dated 23rd March, 1858.

4. Eduard Schmidt and Friedrich Paget, for "Manufacture of oil-coatings."—3rd year.—(Secret.)—Dated 27th March, 1857.

5. Joseph Watremetz, for "An apparatus in steam boilers for preventing their explosion by means of an audible signal."—8th and 9th year.—(Secret.)—Dated 29th April, 1852.

6. Johann Maria Farina, for "Improvements in the manufacture of Eau de Cologne."—6th year.—(Secret.)—Dated 5th April, 1854.

7. James Edward Mac Conell, for "Improvements in hollow axles of locomotives, tenders, and railway carriages."—4th year.—(Secret.)—Dated 27th March, 1856.

8. Adolph Pleischl and Son, for "Improvements in coating iron, sheet iron, and objects made thereof, with a metal enamel."—4th–7th years.—(Secret.)—Dated 8th April, 1856.

9. Carl Ludwig Kriegel and Carl Johann Hoschek, for "An improved process for making waterproof roofings of railway carriages and other objects."—3rd year.—(Secret.)—Dated 24th March, 1857.

10. Adolph Siegel, for "Lighting gas, called 'clarine.'"—3rd year.—(Secret.)—Dated 27th March, 1857.

11. Carl Lichtl, for "A furnace for carbonizing bones."—3rd year.—(Secret.)—Dated 30th March, 1857.

12. Wilhelm Skallitzky, for "A peculiar boot-jack."—2nd year.—(Public.)—Dated 30th March, 1858.

13. Albert Eckstein, for "Varnish of all colours."—2nd year.—(Secret.)—Dated 3rd April, 1858.

14. Friedrich Hoffmann, for "An annular continuous furnace for baking bricks and articles of clay, lime, plaster, &c."—2nd year.—(Public.)—Dated 17th April, 1858.

15. Johann Cimeg, for "Foliating glass with silver instead of a tin amalgam."—2nd year.—(Secret.)—Dated 28th April, 1858.

16. Heinrich Seufert, for "Improvements in spindle battens of ribbon-looms."—4th year.—(Public.)—Dated 29th April, 1856.

17. Gerhard Uhlhorn, for "An apparatus with a divided axle for counteracting the effect of an unequal speed in two motors."—4th–6th years.—(Secret.)—Dated 17th September, 1856.

18. Carl Müller, for "Improvements in the construction of spectacles without frames."—3rd year.—(Public.)—Dated 29th April, 1857.

19. Joseph Grünwald, for "Improvements in making all kinds of fur articles for men and women."—2nd and 3rd year.—(Secret.)—Dated 18th June, 1858.

20. Heinrich Honegger, for "Substituting tongs for templets in power looms."—2nd year.—(Public.)—Dated 18th January, 1858.

21. Ludwig Mertens, for "Improvements in the manufacture of felt articles."—10th year.—(Secret.) Dated 10th April, 1850.

22. Alois Muller, for "Obtaining hinges or pipes without joints or soldering."—12th year.—(Secret.)—Dated 16th April, 1848.

23. Anton Schindler, for "Improvements in galvanized matches."—3rd year.—(Secret.)—Dated 29th November, 1856.

24. Heinrich Breton, for "A means of purifying alcohol, and removing the fusel thereof."—3rd year.—(Public.)—Dated 29th May, 1857.

25. Alexander Legé and Fleury Benoit Pironnet, for "A process for dyeing, drying, and hardening timber."—2nd year.—(Public.)—Dated 16th May, 1858.

26. Mathias Schwell, for "Manufacture of mineral matches."—3rd year.—(Secret.)—Dated 13th April, 1857.

27. Christian Haumann, for "Cement."—2nd year.—(Secret.)—Dated 15th April, 1858.

28. Samuel Jakobovits, for "Improvements in suspending men's dresses."—2nd year.—(Secret.)—Dated 20th April, 1858.

29. Theodor Bosch, for "A peculiar travelling trunk."—2nd year.—(Secret.)—Dated 29th May, 1858.

30. Joseph Muck von Muckenthal, for "Applying wool to the manufacture of felt for hats and other articles."—9th year.—(Secret.)—Dated 30th March, 1851.

31. François Charles Lepage (Latry, sen., and Co., at Paris, assignees), for "A solid durable substance, called 'indurated wood.'"—4th year.—(Secret.)—Dated 11th June, 1856.

32. Samuel Handl, for "Improvements in the manufacture of washing soap."—2nd and 3rd year.—(Secret.)—Dated 15th April, 1858.

33. Seraphine Agnese and Cajetan Ambrosioni, for "Boxes fitting into one another with moveable bottoms for loading and unloading various articles."—2nd and 3rd year.—(Secret.)——Dated 23rd June, 1858.

34. Joseph Neumayer, for "A washing apparatus."—8th year.—(Public.)—Dated 22nd March, 1852.

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3. Patents which have become Void.

1. Edward Clarence Shepard, for "An electro-magnetic machine with fixed spools of induction and rotary magnets."—Dated 29th July, 1854; cancelled 5th April, 1859, because of not being worked.

2. Edward Clarence Shepard, for "Improvements in magneto-electric rotary apparatus with rotary spools of induction."—Dated 29th July, 1854; cancelled 5th April, 1859, because of not being worked.

3. Franz Paweck, for "Waterproofing cloth and cotton and woollen fabrics for dresses."—Dated 16th November, 1857; expired 16th November, 1858.

4. J. F. H. Hemberger, for "Improvements in the treatment of madder, and other plants of the madder tribe, and of their products, for obtaining alizarine for dyeing."—Dated 2nd October, 1853; expired 2nd October, 1858.

5. Fulleran Peyre and Mich. Dolques, for "A machine for finishing cloth and other felt woollen stuffs."—Dated 6th October, 1853; expired 6th October, 1858.

6. Andreas Regensburger, for "A new process and apparatus for distilling all kinds of fat, without almost any waste."—Dated 14th October, 1853; expired 14th October, 1858.

7. Franz Schatten, for "Improvements in furnaces with vertical cylinders for treating spodium."—Dated 21st October, 1853; expired 21st October, 1858.

8. Isak Christian and Fred. Engelställer, for "A machine for napping cloth."—Dated 24th October, 1853; expired 24th October, 1858.

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* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

9. Baron Fabian von Wrede, for "A gas machine for utilizing the expansion of permanent gases by heat for obtaining mechanical action."—Dated 27th October, 1853; expired 27th October, 1858.

10. Anton Narcisse Michelet and Victor Alfred Raye, for "Improvements in a new system of engraving."—Dated 29th October, 1853; expired 29th October, 1858.

11. Ferdinand Martin, for "A safety anchor."—Dated 29th October, 1853; expired 29th October, 1858.

12. C. L. Andreazzi, for "Improvements in the manufacture of sealing-wax."—Dated 30th October, 1854; expiring 30th October, 1858.

13. Carl Wenzel Dovry and Anton Schmid, for "A manure-powder, which prevents also the potato and wine disease."—Dated 21st October, 1855; expired 21st October, 1858.

14. Ferdinand Heinrich Krauskopf, for "Improvements in shoes of gum elastic or caoutchouc."—Dated 7th October, 1856; expired 7th October, 1858.

15. Lucius Hall Gibbs, for "Improvements in fire-arms."—Dated 9th October, 1856; expired 9th October, 1858.

16. Friedrich Georg Wieck, for "A peculiar machine for making sand moulds for castings, and especially pipes."—Dated 13th October, 1856; expired 13th October, 1858.

17. Dr. Carl Eckel, for "Improvements in the construction of harvesting machines, whereby they are rendered portable."—Dated 13th October, 1856; expiring 13th October, 1858.

18. Antonia Roth von Jelegd, for "Manufacture of portable hatching machines, heated by means of gas or spirits of wine."—Dated 17th October, 1856; expired 17th October, 1858.

19. Franz Seraphin Chrismar, for "Metal fly wheels of one piece."—Dated 25th October, 1856; expired 25th October, 1858.

20. Friedrich Wilhelm Bock, for "Improvements in the manufacture of garancine."—Dated 25th October, 1856; expired 25th October, 1858.

21. Ignaz Taussig, for "A new improved composition for matches, free from spirting and protected from damp."—Dated 20th October, 1856; expired 28th October, 1858.

22. Edouard Zulger, for "Improvements in sewing machines."—Dated 29th October, 1856; expired 29th October, 1858.

23. Carl Emanuel Brosch, for "A rotary oven for baking bread.—Dated 31st October, 1856; expired 31st October, 1858.

24. Innocenz Manzetti, for "A portable rotary press for making vermicelli."—Dated 2nd October, 1857; expired 2nd October, 1858.

25. Moriz Neufeld, for "Improvements in his apparatus and process for printing copper-plate and lithographies."—Dated 4th October, 1857; expired 4th October, 1858.

26. Joseph Riedel, for "Improvements in sewing machines."—Dated 3rd October, 1857; expired 3rd October, 1858.

27. Sigmund Salzmann and Sigmund Landesmann, for "Distilling lamp-oil, lubricating oil, paraffine, creosote, sal-ammoniac, benzine, picri-acid, oil of bitter almonds, and pitch, from peat tar."—Dated 21st October, 1857; expired 21st October, 1858.

28. Harry Whitaker, for "An apparatus in vessels with lateral screw propellors for bringing the action of the machine direct on the external cranks of the propelling axles."—Dated 19th February, 1856; expired 19th February, 1859.

29. Anton Prokesch, for "Improvements in double signal lanterns, whereby two parabolic reflectors act in two directions by means of one single lamp, &c.'—Dated 9th February, 1854; expired 9th February, 1859.

30. Friedrich von Exter, for "Improvements in xylography."—Dated 4th May, 1856; disclaimed 28th February, 1859.

31. Wilhelm Adolph Zempliner, for "A self-acting break for carriages."—Dated 27th December, 1857; expired 27th December, 1858.

32. Peter Breithut, for "Mosaic work of gold, silver, and jewels."—Dated 2nd January, 1858; expired 2nd January, 1859.

33. Joseph Borkowsky, for "A machine for planing matches."—Dated 15th April, 1858; expired 15th April, 1859.

34. Dietrich Rauch, for "A signal whistle worked by a caoutchouc ball applied at one end of a metal pipe."—Dated 17th April, 1858; disclaimed 1st April, 1859.

35. Moriz Fischer, for "Improvements in making ladies' dresses, whereby they are protected from being unstitched, torn, &c., and are made to preserve their shape."—Dated 27th March, 1857; annulled 24th April, 1859, for want of novelty in certain parts.

36. Leopold Friedrich and Leonhard C. Cohn, for "A peculiar mode of obtaining artificial sets of teeth without spiral springs."—Dated 25th January, 1858; annulled 28th April, 1859, for want of novelty.

37. Franz Xaver Kukla, for "Applying dead animals to industrial purposes."—Dated 10th November, 1846; expired 10th November, 1858.

38. Louis von Orth and Leop. Stephan, for "Improvements in the manufacture of gutta percha and in the construction of machines and apparatus belonging thereto."—Dated 18th November, 1847; expired 8th November, 1858.

39. Franz Hartwägner (Eduard Krause, assignee), for "Manufacture of oil obtained by means of presses."—Dated 5th November, 1852; expired 5th November, 1858.

40. Johann and Anton Schmidmayer, for "Improvements in machines for combing wool."—Dated 8th November, 1852; expired 8th November, 1858.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 21st June, 1859, and each bearing that date.

No. 24,438. JOHN K. BARNEY, of Warren, R. I. for an "Improved instrument for gauging casks."

"What I claim is, the calliper rod, Fig. VIII, the slides IX, and X, the triangular calliper, bracket and pins as described, and their combinations in the instrument by which the true diameter at the bung of any cask can be obtained, however thick the sediments therein may be. I do not confine myself to the particular manner of fastening the parts in the instrument, but to the principles of the construction of the instrument."

No. 24,439. RICHD. C. BRISTOL, of Chicago, Ill., for an "Improvement in slide valves for steam engines."

"What I claim is, the construction and arrangement of the partial rollers E, when sustained in their respective positions, substantially in the manner and for the purposes herein set forth. I claim, second, the within-described arrangement of the supported back piece B, loose face piece A, cut off means D, and the united passages *a*, *b*, *a*, *b*, in the respective parts A, B, whereby the parts A, B, are allowed to work to a limited extent, relatively to each other, without affecting the action of the steam, nor allowing an escape of the same through the joint. I likewise claim in connection with the above arrangement of the several parts the within-described method of adjusting the parts A. B, relatively to each other, that is to say, working the parts A, B, for a period in a free relation, and then tightening the union by the set screws C, C, or their equivalents, until it becomes rigid, substantially as herein shown and described."

No. 24,440. JOHN BURGE, of Terre Haute, Ind., for an "Improvement in sugar mills."

"What I claim as my invention, is, the combination and arrangement of one large and two or more small cylinders with the stripper, for stripping the leaves of the cane, and the scraper or separator for cleaning the cylinder, and carrying off pressed cane, the whole constructed and operating as and for the purpose substantially as described."

No. 24,441. WM. BURTON, of Cazenovia, N.Y., for an "Improved double seaming machine."

"What I claim is, 1st, the use of a working head, in combination with a disc or 'former' when arranged to produce an outward or eccentric draft, and at the same time accomplish the turning down of the double seam, substantially as and for the purpose herein set forth. 2nd, the working head *a*, *b*, *c*, *d*, in combination with the shaft which is adjustable up and down, and supports a taper, or straight sided 'former' or disc, and with the working head frame, adjustable longitudinally, substantially as and for the purposes set forth."

No. 24,442. O. S. CAMP, of Fairfield, Iowa, for an "Improved boiler."

"What I claim is, a boiler made of double walls, and a single top and bottom, said top having flanges to fit against each wall, and the communication between the interior of the inner boiler and the space between the walls being made by closed passages, such as described."

No. 24,443. MARION CARPENTER, of Cincinnati, O., for an "Improvement in railway chairs.

"What I claim is, the combination of the lugs *h*, *h*, *k*, *k*, with the base piece J, for sustaining the elastic cushion and its follower, in the manner and for the purpose set forth."

No. 24,444. JAMES W. CHAPMAN, of Trinity Springs, Ind., for an "Improvement in sugar mills."

"What I claim is, the combination and arrangement of the forked lever or crushing wheels B, B, bearings and table or bed timber, the table being prepared with notches, to receive the projections on the seat of the bearings and key wedge, substantially as set forth."

No. 24,445. C. G. CONOVER, of Jefferson, Wis., for an "Improved shingle machine."

"I claim, 1st, the employment or use of the fence F, in combination with a reciprocating splitting knife O, and reciprocating or shoving plate N, arranged to operate substantially as and for the purpose set forth. 2nd, the reciprocating splitting knife O, shoving plate N, tapering knives E, E, jointers *o*, and clamp K, combined and arranged to operate substantially as and for the purpose specified. 3rd, operating the bolt carriage G, by means of the revolving arm I, on the shaft B, and the obliquely toothed rack *a*+, at the under side of the carriage G, substantially as described."

No. 24,446. REUBEN DANIELS, of Woodstock, Vt., for an "Improvement in straw cutters."

"I claim, 1st, the combination with the roller D of the convex (*d*), having the major diameter of their bases arranged parallel with the axis of the roller D, as and for the purpose herein shown and described. 2nd, the arrangement and combination of the roller D, cutter C, and cylinders E, E^1, substantially as and for the purpose herein shown and described."

No. 24,447. NATHANIEL EAMES, of Hanover, Pa., for an "Improvement in machines for hulling clover."

"I claim the combination of the screen D with the cylinder B, when said cylinder is provided with a spiral groove *i*, *i*, and a spiral strip of rubber H, the same being constructed, arranged, and operating substantially in the manner and for the purpose herein specified."

No. 24,448. HENRY EHRENFELD, of New York, N. Y., for an "Improved device for converting reciprocating into alternate circular motion."

"I claim, 1st, arranging the lever C and dog B in combination with the grooved wheel A, or its equivalent, in such a manner that the dog acts on the wheel entirely independent from the centre or hub of the wheel, and that the lever can be brought in such a position as to impart motion to the wheel in either direction, substantially as and for the purpose specified. Second, in combination with the lever C, dog B, and wheel A, I claim the arrangement of the groove *d*, or its equivalent, in the hub of the wheel, for the purpose of keeping the dog in the proper position, and to prevent the lever from tipping over sidewise, substantially as herein specified."

No. 24,449. A. H. EMERY, of Mexico, N. Y., for an "Improvement in cheese presses."

"What I claim is, the method of moving the follower (*f*) upwards by means of the weight (*h*), the cords (*i*, *i*), and the pulleys (*j*, *j*), the whole arranged and operated as and for the purposes herein described and set forth. I also claim the arrangement of the arm (*u*), the ratchet (*w*), the pinion (*t*), the crank arm (*v*), together with the wheel (*p*), with the cogs either on the inside or outside, the whole being arranged and operated as and for the purposes herein described and set forth."

No. 24,450. A. H. EMERY, of Mexico, N. Y., for an "Improvement in sash fastener."

"What I claim is, the construction of a window sash spring and fastener of drawn pipe, with the end (*g*) and the end (*h*) arranged and fastened therein, as herein described. I also claim the construction of the knob rod or bolt (*c*), as and for the purpose herein described and set forth."

No. 24,451. THOS. EVANS, of Watkins, N. Y., for an "Improved attachment of handles to tin pails."

"What I claim is, forming metallic ears for pails, buckets, and other vessels, with concentric angular corrugations sur-

rounding the bail orifice, in combination with the flattened hook at the end of the bail, provided with an additional bearing against the surface of one or more of said corrugations, and the drip-opening or downward continuation of the outer corrugations, substantially in the manner and for the purposes herein shown and described."

No. 24,452. P. H. Freylinghousen and J. G. Heilman, of Johnstown, Pa., for an "Improvement in corn planters."

"We claim the perforated wheels G when hung to the sliding bars I and situated in respect to the hopper *a* and wheels H, and otherwise arranged, as herein set forth, so that on moving the said bars I inwards the wheels G may be drawn out of gear, and the orifices of the hopper at the same time closed by the wheels."

No. 24,453. John H. Gage, of Nashua, N. H., for an "Improved roll for forming tire.

"I claim the combination of the flange B, recess or depression O, wide shoulder or tread L, flange C, and short shoulder D, with a series of thin metallic discs F, said parts being constructed, arranged, and operating relatively to each other, substantially in the manner and for the purpose set forth."

No. 24,454. Henry P. Gengembre, of Allegheny, Pa., for an "Improvement in retorts for distilling coal oils."

"I claim, first, the use of an L-shaped retort, combined with charging boxes, crusher, and discharging tube, as described, capable of being subjected to a degree of temperature at the end of the horizontal part at which the residuum of the substance under treatment is discharged higher than at the upright part at which the coal is charged, the whole so arranged as to avoid the admission of atmospheric air. Second, the combination with my retort, constructed substantially as herein-before described, of a crusher suited to the material to be distilled placed within the retort at a point intermediate between the points where the heat is highest and lowest, for the purpose of breaking up the coal or other substance before the process of distillation is complete."

No. 24,455. H. H. Goodwyn, of New Orleans, La., for an "Improvement in sewing machines."

"I claim, 1st, the combination of the loosely fitted double conical sleeve D with the soft lever or elastic backed and bound bearing eye *c*, and a spring pressure, whereby the spool is brought to a proper centre, and the requisite tension produced, the cone sleeve revolving simultaneously with the spool and pivoted arm, and the friction or tension being obtained by the action of the outer end of the double cone against the elastic eye, in the manner and for the purpose herein described. 2nd, the arrangement with the above of the peculiar spring pressure herein described, consisting of the pivoted or rocking standard B, rod *f*, spring *i*, and rosette or nut *h*, for operation together and with the spool, in the manner herein described. 3rd, the attachment to the stationary shell or outer case G of the tension arm *p*, substantially in the manner and for the purposes herein described. 4th, hanging the bobbin F on, and so as to rotate together, with a cylinder *l*, when the same is combined with a spring *m*, inducing friction in the run of the bobbin, and operating in connection with a tension arm or elbow *p*, acting on thread from the bobbin, as described."

No. 24,456. Saml. F. Gold, of Cornwall, Conn., for an "Improved apparatus for heating buildings."

"I claim constructing the generation of a series of similar cast metal sections, each complete in itself, and united, substantially as described, so that the capacity of the generator will be governed by the number of sections used, and may be increased or diminished by adding or removing any desired number of the internal sections. I also claim constructing these sections, so that when united there will exist the chambers E, rising above the water line, and out of the draft of the furnace, substantially as and for the purposes set forth. I further claim, in combination with the generator, the supplementary steam chambers made up of flat cast metal sections, substantially as specified."

No. 24,457. Jacob Gove, of Milford, N. H., for an "Improvement in tanning."

"I claim stirring the liquor or tanning fluid in the vat, by means of a stirrer, constructed, arranged, and operated substantially in the manner set forth."

No. 24,458. John Greenwood, of Rochester, N.Y., for an "Improved machine for chamfering barrel heads."

"I claim the arrangement of the sliding frame B, clamps C, D, cam F, lever G, and gearing E, *h*, substantially as shown in connection with the circular dish-shaped saw Q, and cutters R, R, the whole being arranged for joint operation as and for the purpose specified."

No. 24,459. Thos. Hall, of Boston, Mass., for an "Improved electro-magnetic machine."

"I claim the combination of the spring connecting bar H and the switch O, placed between the machine and the battery, and operating with reference to each other, substantially as herein described."

No. 24,460. Joel T. Ham, of Covington, Ky., for an "Improvement in connecting the iron girders of bridges."

"I claim, 1st, combining the posts and braces with the chords by means of the metal saddles E, E^1, and the metal stirrups or straps F, F^1, applied substantially as described, whereby the expansion and contraction of the chords, posts, and braces, by changes of temperature, is provided for. 2nd, the india-rubber blocks or springs L, L, applied between metal blocks M, N, in combination with the saddles and stirrups, substantially as and for the purpose set forth."

No. 24,461. A. Hotchkiss, of Sharon, Conn., and Jno. P. Adriance, of New York, N. Y., for an "Improvement in guard fingers for harvesters."

"We claim, 1st, the angular cavity D, for the free admission of the front end of the face plate C, to permit its shoulders at the rear end to be inserted, whereby the ends of said plate are firmly secured, substantially in the manner and for the purpose specified. Second, confining the back end C^{11} of the steel face plate C, by bending down the metal of the finger at *a*, *a*, upon the reversely beveled edges of C^{11}, in the manner and for the purposes above described."

No. 24,462. Daniel H. Hull, of Plantsville, Conn., for an "Improved track fastener."

"I claim the combination and arrangement of metal plate A, spring latch C, spring D, and knob F, substantially in the manner and for the purposes herein set forth."

No. 24,463. W. S. Huntington, of Andrasville, N. Y., for an "Improvement in snow plow for railroads."

"I claim the employment or use of the plates or scrapers E, E, attached to arms D, of the shafts C, which shafts have springs G attached, and are connected to an adjusting lever I, by means of the arms F and rods H, the whole being applied to a car, and arranged to operate as and for the purpose set forth."

No. 24,464. E. A. Jeffery, of Corning, N.Y., for an "Improvement in tools for fastening bale hoops."

"I claim, 1st, the employment or use of the combined pliers, and die B, constructed and arranged substantially as and for the purpose set forth. 2nd, the combination of the pliers and hammer A, with the pliers and die B, arranged for joint operation, substantially as described."

No. 24,465. Wm. Johnson, 2d, of Hampstead, N. H., for an "Improved chamfering tool."

"What I claim as my present invention or improvement is my improved mode of supporting the knife F, and adjusting it with reference to the sole rest and the edge bearer, viz., by means of a carrier A, and adjusting screws *h*, *h*, *i*, applied and arranged with respect to the sole rest C, the edge bearer B, and the presser B, substantially as described."

No. 24,466. K. H. Kinne, of Mexico., N.Y., for an "Improved apparatus for cutting teeth in saws."

"I claim the movable curved switch *p*, in conjunction with the curved groove F, for the purpose of adapting the machine to the cutting of teeth on, setting or sharpening the teeth of straight, as well as circular saws, substantially as herein described. I also claim operating and feeding the burr, by means of the shaft Q, turning within the hollow screw shaft D, when applied to a saw sharpener, substantially in the manner and for the purpose herein described. I also claim the bed piece or anvil *c*, for the purpose of supporting the saw tooth while being sharpened, substantially as herein described. I also claim, in combination with the burr E, and the anvil C, the clamps *f*, *f*, for gauging and firmly holding the saw whilst being acted upon, substantially as described."

No. 24,467. David Knowlton, of Camden, Me., for an "Improved ship's capstan."

"What I claim is, fixing the shafts of the stud gears on a revolving plate, arranged to turn with the barrel and head when they are locked together, and to be stationary when they are unlocked, in combination with two stud gears, by which the head and barrel are turned in the same direction when used as a geared or simple capstan."

No. 24,468. Andrew Lanergan, of Boston, Mass., for an "Improvement in exhibition rocket."

"I claim the improvement of making the rocket with a match *b*, arranged and fixed in the choke, and protected or covered by a plane or thin disc *c*, having no opening into the choke, nor any cavity or recess to hold the match or catch sparks, as described. And I particularly claim attaching the match, as described, to the inner surface or side of the choke, or arranging the attachment *d* therein, and with respect to the lower end of the match, substantially as described, the same not only enabling the match to be confined to the choke of the rocket, but to have a portion of it, after breakage of the cap, capable of being bent downward out of the choke into a convenient position for being fired."

No. 24,469. Albertus Larrowe, of Cohocton, N.Y., for an "Improvement in sled brake."

"I claim, first, constructing the brake eyes R, R, in the peculiar form shown and described, and for the purposes set forth. Second, the combination of the brake eyes R, R, with the brake Q, substantially as described."

No. 24,470. Lucius Leavenworth, of Trumansburg, N.Y., for a "Whip and line holder for guiding horses without the use of the hands."

"I claim the arrangement of the rein hooks or knobs *a*, *a*, which are united by one or more cross bars or braces, and which are provided with a whip-socket, or without the same, in such a manner that a frame is formed, which, by the aid of suitable shoulder straps, or their equivalents, may be secured to the body of a person, substantially as and for the purpose described."

No. 24,471. Harvey Locke, of South Boston, Mass., for an "Improved cork machine."

"I claim, 1st, the employment or use of a reciprocating knife stock E, when provided with necessary knives, and arranged in combination with a rotating mandrel N, traversing clamp H, and feed spout or trough S, so that as the knife stock moves back and forth, pieces of cork *a** will be cut from the bar or slab T, and said pieces turned in suitable conical form, substantially as described. 2nd, I claim, in connection with the reciprocating knife stock E, attaching the mandrel N and head *u* to an adjustable bar O, fitted in the framing A, and arranged substantially as described, so as to admit of the adjusting of the pieces of cork *a** more or less obliquely with the knife *c*, and vary the taper of the corks, as may be desired. 3rd, I claim, placing the clamp H in a reciprocating plate G, operated by the lever Q from the wheel C, and the lever R from the reciprocating knife stock E, substantially as shown and described, for the purpose of giving the traversing movement to said clamp, to convey the pieces of cork *a** from the jaws n^1, *o*, to the mandrel N."

No. 24,472. James K. Lum, of Shookumchuck, Wash. Ter., for an "Improvement in windmills."

"What I do claim is, the employment or use of the fly or frame I, placed on the arbor J, and I having the ends of the cord I passing through it, and attached to said arbor, said cords being also attached to the rope W of the weight P, the fly being operated by the wind wheel, in such a manner as to admit of a simultaneous rotation of the arbor J."

No. 24,473. J. C. Lyon, of Auburn, N.Y., and Henry F. Phillips, of Seneca Falls, N.Y., for an "Improvement in grinding mills."

"What we claim is, 1, the arrangement and combination of the clasp (*i*), pin (*j*), screw (*k*), hand wheel J, and shaft C, whereby the said shaft and grinding cone D may be readily adjusted and firmly secured, whether the machine is in operation or at rest, as herein set forth. 2. The arrangement and combination of the double-flanged pulley (*o*), shaft C, fork (*n*), rod (*m*), and shell L, as herein shown and described, so that by the adjustment of the shaft C the shell L will also be adjusted."

No. 24,474. Perry Marcy, of Tunkhannock, Pa., for an "Improvement in potato diggers."

"I claim the arrangement of the inclined smooth belt N, tightening pulley *u*, shield *o*, ratchet wheel J, levers *a*, *a*, and bars I, I, provided with teeth *i*, *i*, *i*, the whole being constructed and operating substantially in the manner herein set forth."

No. 24,475. James Massey, of Thomasville, Geo., for an "Improvement in the construction of driving shafts for mills, cotton gins, &c."

"I claim suspending the driving shaft C, in the manner described, to allow it to rise or fall with the floor to which it is attached, operating substantially in the manner set forth, and for the purposes described."

No. 24,476. Thos. J. Mayall, of Roxbury, Mass., for an "Improved drainage pipe."

"I claim combining with a stationary washing bowl, sink, washing tub, or other similar articles, the elastic drainage pipe, terminating in a wedge shape, for the purposes and in the manner described."

No. 24,477. H. D. McGeorge, and D. C. Greer, of Morgantown, Va., for an "Improvement in corn and cane harvesters."

"We claim providing a corn or cane harvester, with a vertical reciprocating cutting apparatus, for the purpose of cutting the stalks into two or more pieces, substantially in the manner herein described."

No. 24,478. Andrews T. Merriman, of Chicago, Ill., for an "Improvement in machines for sawing stone."

"I claim the lowering the saw frame, by means of the long screws *s*, *s*, acting on the sliding bars *f*, *f*, and the stiff connecting rods *r*, *r*, hung with hinge joints at the saw frame, and the sliding bars *f*, *f* (instead of chains or ropes), for the purpose of holding the saw frame steady, and prevent any jumping motion, all in the manner described."

No. 24,479. Purches Miles, of New Britain, Conn., for an "Improved window curtain fixture."

"I claim, 1st, the compound hanging bracket, capable of being raised up, to permit the opening and closing of blinds, or for other purposes, as described. 2nd, constructing and combining the parts, as described, so that the bracket can be attached to the top side or back of the window frame, and at either side of the window. 3rd, holding the band against a pulley having a friction surface, by an arm or arms, as set forth."

No. 24,480. Richd. Montgomery, of New York, N.Y., for an "Improvement in corrugating metallic sheets."

"I claim the waved corrugated wrought metal plate for boilers, as herein described, in combination with flat margins of greater thickness than its middle, substantially as described."

No. 24,481. John B. Newbrough, of St. Louis, Md., for an "Improved instrument for adding numbers."

"I claim, 1st, the bent arm K, underlying the dial G, so as to operate it without obstructing the vision. 2nd, the stud Q, operating in the described connection with the pawl *j*, to permit the backward motion of the dial, for the purpose set forth. 3rd, the combination and arrangement, substantially as set forth of the rib N, cavity *n*, catch *i*, and teeth *h*, operating as explained to shift the obstructing plate at each revolution of the dial, and arrest the reverse motion of the latter at the right instant in setting the machine. 4th, the described arrangement and combination of the pins *p*, *p*, and hook *o*, operating in the manner and for the purposes set forth."

No. 24,482. S. Van Rensselaer Newman, of Covington, N.Y., for an "Improvement in machines for harvesting beans."

"I claim, 1st, the employment or use of the rotary sickles K, K, provided with scolloped-shaped teeth, and arranged to operate substantially as and for the purpose set forth. 2nd, the combination of the endless chain of rods *o*, with the rotary sickles K, K. And 3rd, the combination of the rotary sickles K, K, endless chain of rods *o*, platform Q, with or without the rake O, placed in a mounted frame A, and arranged for joint operation."

No. 24,483. Andrew O'Neill, of Portsmouth, O., for an "Improved fire-back for stoves and fire places."

"I claim the hooded damper (*c*), in combination with a radiating fire-back (A), constructed and arranged substantially as described, for the purposes set forth."

No. 24,484. Joseph B. Palser and Gardner Howland, of Fort Edward, N. Y., for an "Improvement in apparatus for manufacture of paper pulp."

"We claim 1st, having the pipe *b*, which passes through the hollow journal of the boiler, divided by a partition, so that the steam may find exit through one compartment of the pipe, and the contents of the boiler through the other compartment, as set forth. 2nd, the employment of the perforated diaphragm *p*, p^1, when arranged substantially as described, to protect the pipes *h*, h^1, *s*, s^1, and strain the liquids from the 'stock,' as and for the purposes herein set forth. 3rd, the arrangement of the boilers J, J^1, with the surrounding envelope, substantially as herein shown and described, so that the resultant liquids of the boiling may be evaporated, and also employed to cool down the boilers and surrounding envelope, as set forth. 4th, the arrangement of the basin *g*, *g*, below the boiler, to receive the falling liquid, as and for the purposes described. 5th, the injection of the steam arising from the boiling of the alkaline, and other contents of boiler J^1, into the boiler J, and vice versa, substantially as and for the purposes herein shown and described. 6th, the arrangement of the warming chamber S, between the two boilers, and the combination therewith of the pipes T, V, W, W^1, as and for the purposes described. 7th, the arrangement and combination of the boilers J, J^1, furnace A, and doors D, D^1, E, E^1, F, F^1, so as to apply the furnace heat to either or both boilers, at pleasure, substantially as herein shown and described. 8th, the combination of the cylindrical bottomed vats K, K^1, having the chimneys N, N, passing through them, with the boilers J, J^1, as and for the purposes described."

No. 24,485. James Peeler, of Tallahassee, Florida, for an improvement in machines for sowing fertilizers."

"I claim the arrangement of the frame A, wheels B, B, axle C, and apron D, attached to the frame by means of straps *a* and *c*, with the bar *d*, metallic strip *x*, corrugated wheel F, bar *i*, chuck J, hopper E, and slide L, the whole being constructed and placed in the relative position herein set forth, and operating in the manner specified."

No. 24,486. James Peeler, of Tallahassee, Florida, for an "Improvement in cultivators."

"What I claim is, the arrangement of the bars D and E, beam A, handles B, B, and standard C, the bar E forming a brace, a colter, and a landside, and the bar D being provided with an inclined or tapering point, on which any style of blade may be secured, the two bars being pivoted together at *x*, and the whole operating substantially in the manner and for the purpose specified."

No. 24,487. Albert Philipp, of Mayville, Wis., for an "Improvement in machines for cutting sugar cane."

"I claim the arrangement of the cutters H^1, with the forked arms I^1, and with the endless apron *p*, in combination with the cutters H, the forked arms I, the reels J, and the additional platforms C^1, to operate substantially in the manner and for the purpose specified."

No. 24,488. Rensselaer Reynolds and Gordon B. Reynolds, of Stockport, N. Y., for an "Improvement in brakes for power looms." — Antedated 8th February, 1859.

"What we claim is, applying and arranging the two faces of the brake relatively to its centre of motion, and the said centre of motion relatively to the centres of the crank and cam shafts, in the manner substantially as described, whereby the brake is not only rendered automatic in case of recoil after the stoppage of the loom by the action of the protector, but self-liberating when the loom is started again, as herein fully set forth."

No. 24,489. Wm. Price, of Philadelphia, Pa., for an "Improved filter."

"I claim, first, the general arrangement of the two casings, the perforated plates, the wire gauze body of sand, the system of pipes, and three cocks, herein-before described. Second, confining a body of sand D between the perforated plates B and B^1, by means of a ring C, constructed in the manner set forth, or any equivalent thereto, by which the said ring may be made to compress the body of sand without disturbing the said perforated plates. Thirdly, the orifices *m*, *m*, at the lower ends of the pipes H, and H^1, for the purpose specified."

No. 24,490. Christian Ritter, of Reading, Pa., for an "Improvement in cider presses."

"I claim the application of the chamfered and grooved inner slats and partitions, with their fastenings and arrangements, which will produce the intended effect."

No. 24,491. Philip C. Rowe, of Boston, Mass., for an "Improved brush for washing windows."

"I claim the hydraulic window washer, or brush, constructed with the spray jet tube, and the conduit or pipe, applied to its stock and handle, substantially in the manner and to operate as above specified."

No. 24,492. W. G. Ruggles, of Worcester, Mass., for an "Improvement in cooking ranges."

"I claim the arrangement and combination of the oven D, provided with a central hollow shaft (*b*), the oven G, provided with a hollow shelf (*m*), fire chamber B, damper E, chambers (*h*, *d*), flues C, H, *n*, n^1, substantially as and for the purposes herein shown and described."

No. 24,493. Paul A. Sabbaton, of Albany, N. Y., for an "Improved door frames for furnaces."

"I claim the combination of the mouth of the furnace of the door frame A and door B, when the said door frame is provided with an opening larger than the door into which the door shuts, so as to close against the furnace, or against a shield or false frame C, as and for the purposes herein set forth and described."

No. 24,494. Henry Sauerbier, of Newark, N. J., for an "Improved tool for planing and finishing the edges of boots and shoe soles."

"What I do claim is, the combination of the collis and edge plane, substantially in the manner and for the purpose herein above specified."

No. 24,495. Wm. Schnebly and Thos. Schnebly, of Hackensack, N. J., for an "Improvement in harvesting machines."

"We claim the arrangement and combination of the inclined tapering discharge trough I, with the concave or curved platform and raker reel, whereby the grain is made to fall from the machine in compact gavels, as herein shown and described."

No. 24,496. Wm. Schnebly and Thos. Schnebly, of Hackensack, N. J., for an "Improvement in harvesting machines."

"We claim the employment, in combination with the pendulous levers *d*, d^1, of the toggle levers *g*, *g*, as herein shown, whereby the levers *d*, d^1, may, without shifting their axes of motion *f*, *f*, be thrown in or out of connection with the drivers B, B."

No. 24,497. Jonas Smith, of Westport, Conn., for an "Improved waterwheel."

"I do claim the arrangement and combination of the annular gate B, when provided with tangential vertical plates *i*, stationary rim C, interposed between the gate D, and wheel A, when provided with buckets (*a*), having lips (*c*), all as herein shown and described for the purposes set forth."

No. 24,498. Joseph Smith, of Cincinnati, O., and G. B. Griffin, of Madison, Wis., for an "Improvements in measuring faucets."

"We claim, 1st, operating the plunger by means of the cam grooves on the face of wheel G, in connection with the pins on the sleeve, when both are constructed and operated in the manner and for the purpose set forth. 2nd, the serrated circular register plate H, in connection with the ratchet *p* and pointer *m*, the same being arranged and operated, substantially in the manner and for the purpose specified. 3rd, we claim the disc *c*, constructed as described, in combination with the inlet pipe B and the outlet pipe C, the same being used substantially in the manner and for the purpose herein fully set forth."

No. 24,499. JOHN G. STEPHENSON, of Buffalo, N. Y., for an "Improved machine for jointing staves."

"I claim the adjustable plates I, I, with yielding cutter stocks or plates K, K, attached, in connection with the feed rollers D, D, and yielding pressure plate *c*, or its equivalent, the whole being arranged to operate substantially as and for the purpose set forth."

No. 24,500. J. C. STODDARD, of Worcester, Mass., for an "Improvement in cultivators."

"What I do claim is, the arrangement and combination of the slotted adjustable revisable blades (*h*), arms *f*, and hub (*e*), as and for the purposes herein shown and described."

No. 24,501. GILES M. STONE, of Fredericksburg, Va., for an "Improved panoramic attachment for clocks, to indicate the comparative time in all longitudes."

"I claim, first, the chronometer dial, divided off into 24 equal parts, for indicating the 24 hours of day and night, by one revolution of the index point, substantially as set forth. Secondly, the revolving disc, representing the northern or southern hemisphere, for indicating the relative time of day or night, at any and all localities thereon, in the manner specified. Thirdly, the combination of the revolving disc, with the twenty-four hour dial, for demonstrating the cause of day and night, by the diurnal revolutions of the former, representing the revolutions of the earth on its own axis, substantially as described."

No. 24,502. JOHN F. STURDY, of Attleborough, Mass., for a "Combined case for pen, pencil, knife, toothpick, &c."

"I do claim the case A, constructed as shown and provided with the knife blade *i*, operated by the spirally slotted tube *f*, pencil tube *l*, toothpick *m*, and pen slide *n*, arranged and combined to form a new and improved article of manufacture."

No. 24,503. WM. H. TOWERS, of New York, N.Y., for an "Improved clothes pin."

"I claim the before-described improved article of manufacture, to wit, a clothes clamp formed of two parts A, jointed together at their upper ends substantially as set forth."

No. 24,504. CYRUS B. THAYER, of Boston, Mass., for an "Apparatus to hold and turn the leaves of books and music."

"I claim the combination and arrangement of the wedge-acting back pieces B, B, and clamps C, C, with their connecting dove-tail tongues and grooves *b*, *b*, substantially as described, so that simply raising the clamps shall unclamp and depress them, shall clamp the music sheets as herein specified. I also claim the arrangement and combination substantially as herein specified, of the leaf-turning cords D, D, D, arms G, G, G, lever E, and catch *m*, for the purpose set forth."

No. 24,505. GEO. S. TIFFANY, of Palmyra, Mich., for an "Improvement in machines for digging potatoes."

"I claim the hinged fork P, in combination with the plow L^1, when the same are arranged and operate as and for the purposes herein set forth."

No. 24,506. CHAS. N. TYLER, of Washington, D.C., for an "Improvement in manufacture of gas."

"What I claim is, combining hydrogen gas with the volatile and easily condensible products of coal, rosin, tar, &c., in their nascent state, in the manner and for the purposes substantially as herein set forth."

No. 24,507. FRANKLIN VEAL, of Hallettsville, Texas, for an "Improvement in cultivators."

"What I claim, is, arranging the dove-tailed projections *i* at equal distances from the cutting edges of the shares in combination with the slots *j*, and recesses *k*, in the arms and for the purpose of securing the shares to the arms, and to render them reversible substantially as described."

No. 24,508. JULES JEAN BAPTISTE VERGNE, of Paris, France, for an "Improved screw propeller."

"I claim the arrangement of the grooving, fluting, or ribs, in the form of a series of steps substantially as and for the purposes herein set forth and described."

No. 24,509. ANTON VON SCHUTTENBACK, of St. Petersburg, Russia, for an "Improvement in fluid lamps."—Patented in England, 11th October, 1858.

"What I do claim as my invention, is, the combination of the gasholder or gasometer A, the vessel I, the pipe N, with its branches, the pipe F, the chamber H, the chimney I, the oil reservoir A, and the burner G, the whole being applied and made to operate together substantially as specified."

No. 24,510. EDWD. WALCOTT, of Providence, R.I., for an "Improvement in gas retorts."

"I claim the combination with the lid D of the projecting incline plane *a*, *a*, substantially as and for the purposes herein set forth and described. 2nd, the employment for securing the lid of the mouth piece of the retort in place, of a horizontal eccentric or cam G, and lever H, attached to and combined with a cross bar F, and applied to the mouth piece of the retort substantially as herein described."

No. 24,511. F. F. WAGNER, and P. P. DICKINSON, of Harrisburgh, Pa., for an "Improvement in railroad car seats."

"We claim the arrangement and combination of the wheels I^1, J, arms D, D^1, cushions E, E^1, and bars G, as and for the purpose herein shown and described."

No. 24,512. AMBROSE WARD, of Altoona, Pa., for an "Improvement in body bolsters for railway cars."

"I claim, 1st, the arrangement and combination of the trusses F, centre plate D, sills G, and tension rods I, substantially as and for the purpose herein shown and described. 2nd, providing the centre plate D, with lugs K, protecting flange or cap (*b*), lateral bearing flange (*e*), at the centre, fitting into cup in plate B, the vertical bearing flange (d^1), fitting into the cup or groove, in plate B, the whole combined and arranged as and for the purposes herein shown and described."

No. 24,513. DAVID WARREN, of Gettysburgh, Pa., for an "Improved method of opening and closing farm gates."

"I claim the arrangement of the lever F and bar *d* with the bar E and falling catch D, as constructed substantially in the manner and for the purpose herein fully described."

No. 24,514. HENRY WELLS, of Walnut Grove, Ill., for an "Improvement in cultivators."

"I claim the arrangement of the share F, mould boards G, G, rods H, H, and I, I, the latter having the parts *d*, *d*, formed on them, the said parts passing respectively through the bar C and beam A, thus making a very firm structure, in the manner and for the purpose set forth."

No. 24,515. SOLON R. ATKINS and D. H. HULL, of Plantsville, Conn., assignors to D. H. Hull aforesaid, for an "Improved trace fastener."

"We claim the metallic box A, having a semicircular ring B on its end, and provided with a slide C, which is to be operated by a knob H, and held against the neck of the button on the whiffle-tree by springs D, E, all arranged and operating in the manner and for the purposes herein set forth."

No. 24,516. WM. BROWN, of Shelbyville, Ind., assignor to himself and Fontain G. Robertson, of same place, for an "Improved device for feeding bees."

"I do claim, as a new article of manufacture, the bottle stopper, consisting of the cork A, tube B, and cup D, D, secured together by the screw and nut C, substantially as described, and for the purposes specified."

No. 25,517. WALTER HUNT, of New York, N. Y., for an "Improvement in heels for boots and shoes."

"I claim making the external form of the heels of boots and shoes of a metallic shell, with an inner flanch at the upper edge to fit over the usual heel seat of the sole, and between that and the counter or back portion of the upper, substantially as described, and to be provided with an inner core, and the whole to be secured to the heel seat, substantially as described. I also claim, in combination with the shell and upper flanch and inner core, substantially such as described, making the said shell with an inner flanch at the lower edge, substantially as and for the purpose specified. And I also claim, in combination with a heel constructed, substantially as above described, and consisting of the shell with the upper and lower flanches and the enclosed core, the

employment of a rotating top lift, substantially as and for the purpose specified."

No. 24,518. Wm. M. Jeffers, of Elmira, N. Y., assignor to himself and Wm. L. Gibson, of same place, for an "Improvement in double cannon for chain shot."

"I claim the use of a partition intermediate between the breech and muzzle of the piece, in combination with the slot *c*, so arranged that the charge of the barrels shall mingle at the fuse, so that immediately on the ignition thereof, the expansion force shall be wholly expended in projecting the two balls, and not weakened by a continuous connection between the barrels, substantially as and for the purpose shown and described."

No. 24,519. Robt. H. Mathies, of Boston, Mass., assignor to A. N. Clark, of Beverly, Mass., for an "Improvement in water gauges for steam boilers."

"What I here claim as my invention is, the combination with the partion that separates the upper and lower main tubes of the gauge of the independent steam and water tubes or courses, arranged to unite the spaces in the main tubes, substantially as specified, and for the purposes set forth."

No. 24,520. H. K. Moore, of Malden, Mass., assignor to A. W. Adams and G. W. Dane, of Boston, Mass., and Wm. G. Howe, of Haverhill, Mass., for an "Improvement in water gauges for steam boilers."

"I do not claim the single balanced valve apparatus, constructed with the arrangement of steam receiving and discharging chambers A, G, hollow stem or passage E, external steam passage *a*, and parts *d*, *d*; but I claim combining therewith the auxiliary steam space *t*, and the nipple or raised valve seats *s*, *s*, arranged substantially as specified."

No. 24,521. E. L. Pratt, of Philadelphia, Pa., assignor to himself and R. B. Fitts, of same place, for an "Improved cheese cover."

"What I claim is, as an improved article of manufacture for the purposes herein described, a ventilating cover constructed of tin plate or other suitable material, so as to protect articles placed therein from the rays of light and heat and the ravages of animals or insects, and at the same time secure perfect ventilation by means of a series of small perforations at or near the base or bottom for the inlet of cool air, and another series of perforations at or near the top for the escape of warm air, moisture, and gases, as herein set forth and described."

No. 24,522. Archibald Putnam and James H. Putnam, of Wellsville, Ohio, assignors to themselves and Philip S. Geisse, of Wellsville aforesaid, for an "Improvement in railroad turn tables."

"We claim the adjustable spindle *g*, applied as adapted, in the manner and for the purposes set forth."

No. 24,523. Lawrence Schroder, of Cincinnati, Ohio, assignor to John H. Schroder and Co., of same place, for an "Improved lock guard."

"I claim the arrangement of the several tumblers in combination with intervening springs, which vary the spaces between said tumblers, and operate the lock, in the manner and for the purpose substantially as set forth."

No. 24,524. John W. Smith, of Washington, D. C., assignor to himself and Jesse H. Whitehurst, of Baltimore, Md., for an "Improvement in gas retorts."

"I claim the within-described arrangement of the pipes *e* and e^1, when combined with the retort and condensing chamber, in the manner and for the purpose herein set forth."

No. 24,525. Robt. Wm. Sievier, of Upper Halloway, Middlesex county, England, assignor to Wm. Lilley, of Ohio, for an "Improved smelting furnace for iron."

"I claim the use of the exhaust pipe, in connection with a fan pump or other means to exhaust the foul air and gases, and cause a current of air to pass through the bottom or apertures of the furnace, of sufficient density for the smelting and purifying iron and other ores, in the manner and for the purposes above set forth. I also claim the exhaust fan, constructed and operating as herein explained. I further claim the use of the movable crucible, as described, and for the purposes above set forth."

No. 24,526. Benjn. Tolman, of Pembroke, Mass., assignor to himself and Asa F. Ramsdell, of same place, for an "Improved edge plane for boots and shoes."

"Therefore, what I claim as the improved edge plane, as constructed, with cutter and gauge bearings, flanges, and confining devices, arranged on the stock and with respect to the cutter and gauge, substantially as specified."

No. 24,527. Chas. Teuesdale and A. J. Sennett, of Cincinnati, O., assignor to Wm. Resor and Jacob Resor, of same place, for an "Improvement in patterns for casting stove covers."

"What we claim is, constructing patterns for stove covers and centres, with an opening in their under sides, by means of which a draw bar *f* may be withdrawn from the mould before removing the patterns, and also with a perforation (*g*), substantially as and for the purposes set forth."

Re-issues.

James Ingram, of New York, N. Y., for an "Improvement in water backs for ranges."—Patented 16th February, 1858.—Re-issued 21st June, 1859.

"What I claim, is, protecting the water backs of ranges by the introduction of a movable fire brick soap stone, or equivalent material, between the fire and said water backs, substantially as specified. I also claim arranging said water back, substantially as set forth, whereby the same can be moved away from the fire to allow space for introducing said protecting fire brick, or its equivalent, as specified. And, in combination with said water back, I claim the lever *k*, and weight *g*, or their equivalents, to move the intervening soap stone, or fire brick, substantially as specified."

D. C. McCallum, of Owego, N. N., for an "Improvement in bridges."—Patented 20th January, 1857.—Re-issued 21st June, 1859.

"What I claim is, so combining the arch, cord, or beam, the arch brace, and the abutment or pier of a bridge, as that the thrust of the arch shall be thrown down upon the abutment or pier, and any deflection in the lower chord be contracted by an upward force at the upper ends of the arch braces. I also claim the method of lengthening or shortening the braces of a bridge truss or girder, by which the truss may be elevated or depressed as required, by means of the yoke *a*, the plate *b*, on the end of the brace, and the straining pieces *c*, *c*, with their nuts *d*, substantially as described."

Charles T. Porter, of New York, N. Y., for an "Improvement in governors for steam engines."—Patented 13th July, 1858.—Re-issued 21st June, 1859.

"What I claim, is, first, in combination with arms and very small balls, or their equivalents, revolving at a velocity several times greater than would be due or natural to them, considered as a conical pendulum, I claim the employment of a counterpoise, applied substantially as described, and so proportioned in weight as to balance, or nearly so, the centrifugal force developed by the revolution of the said arms and balls, or their equivalents. Second, I claim the employment at the connection between the arms and the central spindle of the governor of a joint, constructed substantially as described, and illustrated in Figure 2, whereby each arm is brought to the outside of the joint on one side, and made to thrust against the joint pin close to one end thereof at a right angle, and at a distance from the axis of revolution, as herein described."

John A. Jackson, of Philadelphia, Pa., assignee of Israel Amies, of said Philadelphia, for an "Improvement in veneers."—Patented 11th December, 1855.—Re-issued 21st June, 1859.

"What I claim, is, the embossed veneers described, the same being adapted for subsequent application in the construction and ornamenting of furniture and other articles to which veneers are or may be applicable."

Obed Hussey, of Baltimore, Md., for an "Improvement in reaping machines."—Patented 7th August, 1847.—Re-issued 14th April, 1857.—Again re-issued 21st June, 1859.

"What I claim is, the combination of side and cross bearings of the guards with flush edges at and near the forks of the blades, substantially as described."

Obed Hussey, of Baltimore, Md., for an "Improvement in reaping machines."—Patented 7th August, 1847.—Re-issued 14th April, 1857.—Again re-issued 21st June, 1859.

What I claim is, scolloped cutters with their blades bevelled, as herein described."

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No. 576. TUESDAY, JULY 12, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

543. JAMES TEMPLEMAN, of Glasgow, in the county of Lanark, North Britain, Artificial Fuel Manufacturer, has given notice at the office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the manufacture or production of artificial fuel."

545. And DAVID LICHTENSTADT, of No. 1, Henry Cottages, Park Road, Peckham, in the county of Surrey, Chemist, has given the like notice in respect of the invention of "Converting certain vegetable substances into fibrous material for the manufacture of paper, textile, and other fabrics."

As set forth in their respective petitions, both recorded in the said office on the 1st day of March, 1859.

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551. And WILLIAM FRANCIS DEARLOVE, of No. 10, Dartmouth Street, in the city of Westminster, has given the like notice in respect of the invention of "An improved chopping machine."

As set forth in his petition, recorded in the said office on the 2nd day of March, 1859.

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563. And JOHN HARRISON, of Bermondsey, Southwark, in the county of Surrey, Builder, has given the like notice in respect of the invention of "An improvement or improvements in the construction of rotating window sashes."

As set forth in his petition, recorded in the said office on the 3rd day of March, 1859.

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573. And CHARLES FREDERICK DENNET, of Pall Mall, Gentleman, has given the like notice in respect of the invention of "Improvements in bayonets."

575. And JAMES COWBAN and ELIAS ANDREWS, of Burnley, in the county of Lancaster, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for spinning fibrous materials."

576. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "An improvement in boiler stays."—A communication from Jean Perrier, residing at Nimes, France.

As set forth in their respective petitions, all recorded in the said office on the 4th day of March, 1859.

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586. And GEORGE LEACH, of Leeds, in the county of York, Yarn Spinner and Cloth Manufacturer, has given the like notice in respect of the invention of "Improved machinery for reeling and leashing yarn or thread."

As set forth in his petition, recorded in the said office on the 5th day of March, 1859.

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598. And JOHN PRETTY CLARKE, of King's Street Mills, Leicester, has given the like notice in respect of the invention of "Improvements in the manufacture of reels for the winding on cotton linen threads, silk, or other fibrous materials."

As set forth in his petition, recorded in the said office on the 7th day of March, 1859.

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610. And JOHN ALLIN WILLIAMS, of Baydon, in the county of Wilts, Farmer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cultivating land by steam power."

As set forth in his petition, recorded in the said office on the 9th day of March, 1859.

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621. And JAMES YUILL, of Glasgow, in the county of Lanark, North Britain, Saddlers' Ironmonger, has given the like notice in respect of the invention of "Improvements in saddle trees."

623. And HENRY LODGE, of Liverpool, in the county of Lancaster, Merchant, has given the like

notice in respect of the invention of "Improved means of protecting ships' batteries and other constructions or buildings from the effects of projectiles of various kinds."

As set forth in their respective petitions, both recorded in the said office on the 10th day of March, 1859.

643. And THOMAS LIGHTFOOT, of Accrington, in the county of Lancaster, Calico Printer, has given the like notice in respect of the invention of "Improvements in fixing colours on woven fabrics or fibrous materials."

As set forth in his petition, recorded in the said office on the 14th day of March, 1859.

655. And JOHN DIXON and ROBERT CLAYTON, both of Bradford, in the county of York, Engineers, have given the like notice in respect of the invention of "Improvements in rolling iron and steel for manufacturing railway wheels, and for other purposes."

664. And WILLIAM AVERY, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for the manufacture of screws."

665. And JOSEPH MICHEL-DENYS, of Charleroi, in the kingdom of Belgium, Gentleman, and 4, South Street, Finsbury, London, has given the like notice in respect of the invention of "Certain improvements in the construction of railway crossings."

As set forth in their respective petitions, all recorded in the said office on the 16th day of March, 1859.

753. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "A machine for separating oats from their husks or chaff."—A communication from abroad by Léon Jean Emile Dupont, of Paris.

As set forth in his petition, recorded in the said office on the 24th day of March, 1859.

770. And BENJAMIN SMITH and CHARLES LAVERS SMITH, both of Corbet's Court, Spitalfields, in the county of Middlesex, Manufacturing Chemists, have given the like notice in respect of the invention of "Improvements in the preparation of certain colouring matter applicable for dyeing and printing."

As set forth in their petition, recorded in the said office on the 26th day of March, 1859.

810. And FRANCIS MORTON, of James Street, Liverpool, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of fences, and the post or pillars for the same, parts of which improvements are also applicable to the construction of gate posts or poles for telegraph purposes or for signal posts."

811. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in mills for cleaning rice."—A communication from abroad by Peter McKinley, of Charleston, in the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 31st day of March, 1859.

881. And WILLIAM HOOPER, of Mitcham, in the county of Surry, India Rubber Manufacturer, has given the like notice in respect of the invention of "Improvements in insulating and protecting telegraphic conductors."

882. And WILLIAM HOOPER, of Mitcham, in the county of Surry, India Rubber Manufacturer, has given the like notice in respect of the invention of "Improvements in re-working or re-manufacturing compounds of india rubber and sulphur."

As set forth in their respective petitions, both recorded in the said office on the 8th day of April, 1859.

921. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in the preparation of red dyes."—A communication from abroad, by Messrs. Renard, Frères, of Lyons.

As set forth in his petition, recorded in the said office on the 12th day of April, 1859.

981. And FREDERICK EDWARDS and WILLIAM EDWARDS, of the city of Coventry, Machinists, have given the like notice in respect of the invention of "Improvements in looms for weaving ribbons and other like goods."

As set forth in their petition, recorded in the said office on the 18th day of April, 1859.

1033. And THOMAS ALDRIDGE WESTON, of King's Norton, in the county of Worcester, Accountant, has given the like notice in respect of the invention of "A new or improved pulley."

As set forth in his petition, recorded in the said office on the 25th day of April, 1859.

1060. And JAMES HOLROYD, of Leeds, in the county of York, Cloth Finisher, has given the like notice in respect of the invention of "Improvements in machinery used for finishing woollen and other cloths."

As set forth in his petition, recorded in the said office on the 27th day of April, 1859.

1335. And ARTHUR MICKELTHWATE, JOSEPH PEACE, and SAMUEL JOHNSTONE HOBSON, all of Sheffield, in the county of York, have given the like notice in respect of the invention of "Improvements in the coating and covering of metallic springs, steel, iron, and other metal bands for the use of any kind of machinery, driving bands or straps, ribs suitable for umbrellas and parasols, stay busks and ribs for stays, hats, bonnets, reeds, and crinoline, and articles of dress and other useful purposes."

As set forth in their petition, recorded in the said office on the 30th day of May, 1859.

1350. And GEORGE HALLEN COTTAM and HENRY RICHARD COTTAM, of St. Pancras Iron Works, Old St. Pancras Road, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in stable fittings."

As set forth in their petition, recorded in the said office on the 1st day of June, 1859.

1372. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improvement in balancing millstones."—A communication from abroad by John Fairclough, of Louisville, in the county of Jefferson, and state of Kentucky, United States of America.

As set forth in his petition, recorded in the said office on the 3rd day of June, 1859.

1392. And Robert Riddell Fairgrieve, of Boston, in the United States of America, Machinist, and Simeon Bathgate, of the town and county of Selkirk, North Britain, Engineer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for winding yarns or thread."

As set forth in their petition, recorded in the said office on the 7th day of June, 1859.

1394. And John Henderson, William Henderson, and Thomas Bagley, of the city of Durham, Carpet Manufacturers, and Samuel Holdsworth, of the same place, Engineer to Messieurs Henderson and Company, have given the like notice in respect of the invention of "Improvements in looms for weaving, some of which improvements are applicable to other purposes."

As set forth in their petition, recorded in the said office on the 8th day of June, 1859.

1420. And Felix Alexandre Testud de Beauregard, of Paris, in the French empire, Civil Engineer, has given the like notice in respect of the invention of "Certain improvements in generating steam, and in apparatus for obtaining power and in generating steam for other purposes."

As set forth in his petition, recorded in the said office on the 11th day of June, 1859.

1428. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the fitting of life and other boats."—A communication from abroad by Matthias Ludlum, of Fairhaven, in the state of Vermont, United States of America.

As set forth in his petition, recorded in the said office on the 13th day of June, 1859.

1437. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the manufacture of polishing wheels, sticks, and tools."—A communication from abroad by Thomas J. Mayall, of Roxbury, in the county of Norfolk, and state of Massachusetts, United States of America.

As set forth in his petition, recorded in the said office on the 15th day of June, 1859.

1488. And George Tomkins, of Pontymister, near Newport, in the county of Monmouth, Tin Plate Worker, has given the like notice in respect of the invention of "Improvements in coating metals, and in the apparatus connected therewith."

As set forth in his petition, recorded in the said office on the 21st day of June, 1859.

1497. And Robert Smith, of Longridge, near Preston, in the county of Lancaster, Manufacturer, has given the like notice in respect of the invention of "Improvements in apparatus applicable to looms for weaving fancy fabrics."

1501. And Charles Clarini, of New York, U. S. A., has given the like notice in respect of the invention of "Making wrought metal nails by machinery."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of June, 1859.

1516. And William Lister, junior, Master Mariner, and Thomas Gilbert Garrick, Agent, both of Sunderland, in the county of Durham, have given the like notice in respect of the invention of "Improvements in ships' windlasses, and other like apparatuses, applicable also to the steering of ships."

1520. And George Redrup, of the Loughborough Brewery, Loughborough, in the county of Leicester, Brewer, has given the like notice in respect of the invention of "Machinery for the cutting of shives, bungs, corks, spiles, and vent or other pegs."

1521. And Richard Hornsby, junior, of Spittlegate Iron Works, Grantham, in the county of Lincoln, has given the like notice in respect of the invention of "Improvements in ploughs, and in giving motion to ploughs and other agricultural implements by steam power."

As set forth in their respective petitions, all recorded in the said office on the 24th day of June, 1859.

1529. And John Boden, of Portswood Road, Southampton, Engineer, and William Clark, of Northern Road, Southampton aforesaid, Boiler Maker, have given the like notice in respect of the invention of "Improvements in apparatus for superheating steam."

As set forth in their petition, recorded in the said office on the 25th day of June, 1859.

1561. And Levi Lincoln Tower, of the state of Massachusetts, of the United States of America, has given the like notice in respect of the invention of "A new and useful machine for dampening and wetting paper, &c."—A communication from John A. Lynch, a resident of Boston, of the said state of Massachusetts."

As set forth in his petition, recorded in the said office on the 30th day of June, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Notice of Emendation.

Notice is hereby given, that a petition, declaration' and provisional specification, in the name of

1420.—(1859.) Felix Alexandre Restud de Beauregard, of Paris, in the French empire, Civil Engineer, applying for Letters Patent for his invention of "Certain improvements in generating steam, and in apparatus for obtaining power and in generating steam for other purposes" (advertized in the London Gazette on the 24th day of June last), the certificate of the law officer, allowing provisional protection thereon, and the records relating thereto, in the Office of the Commissioners for Patents, have been severally amended by the substitution of the name Felix Alexandre *Testud* de Beauregard for Felix Alexandre *Restud* de Beauregard, the same having been written Felix Alexandre *Restud* de Beauregard in error.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

12th July, 1859.

106. William Bennetts, of Tuckingmill, in the county of Cornwall, Workman, for an invention of "Improvements in mechanism used for preventing accidents when raising or lowering skips, baskets, or apparatus particularly applicable to mines."—Dated 13th January, 1859.

110. John Picksley and Reuben Sims, of Bedford Foundry, Leigh, in the county of Lancaster, Machine Makers, for an invention of "Improvements in lawn mowing machines."—Dated 13th January, 1859.

112. Daniel Lancaster Banks, of Kennington, in the county of Surrey, Engineer, for an invention of "A method of constructing a travelling suspension rail or road way, applicable, among other uses, as a bridge and lifting agent."—Dated 13th January, 1859.

113. James John Stevens, of Darlington Works, Southwark, in the county of Surrey, Engineer, for an invention of "Improvements in railway signal apparatuses."—Dated 13th January, 1859.

114. François Jules Manceaux, of Paris, in the empire of France, Manufacturer, and Eugene Napoléon Vieillard, of the same place, Gunsmith, for an invention of "Improvements in breech loading fire arms and in cartridges."—Dated 13th January, 1859.

115. John Grist, of Beazley Crescent, Old Ford, in the county of Middlesex, Engineer, for an invention of "Improvements in machinery for cutting and shaping staves and heads for casks and for the manufacture of casks."—Dated 13th January, 1859.

122. Samuel Holt, of the city of Manchester, in the county of Lancaster, Silk Manufacturer, for an invention of "A new and improved manufacture of woven silk fabrics."—Dated 14th January, 1859.

125. William Davis, of 2, Ann Street, Globe Fields, Mile End, in the county of Middlesex, for an invention of "Improvements in sluice valves."—Dated 14th January, 1859.

131. Daniel Lancaster Banks, of 3, Kennington Row, Kennington Park, in the county of Surrey, Engineer, for an invention of "Improvements in the method of constructing a travelling suspension rail or roadway to be used for the cultivation of land."—Dated 15th January, 1859.

431. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved mowing machine or grass harvester."—A communication from abroad by John Peter Adriance, of the United States of America.—Dated 16th February, 1859.

499. John Robinson, of Lower House, near Burnley, in the county of Lancaster, Manager, for an invention of "Improvements in machinery and apparatus applicable to machines for spinning and doubling."—Dated 24th February, 1859.

899. Rudolph Wappenstein, of the city of Manchester, in the county of Lancaster, Medallion Engraver, for an invention of "Improvements in cop tubes, and in machinery or apparatus for placing the same on the spindles used for spinning and doubling fibrous materials."—Dated 11th April, 1859.

339. Ebenezer Partridge, of Stourbridge, in the county of Worcester, Engineer and Iron Founder, for an invention of "An improvement in the manufacture of 'pipe' boxes for cart and wagon axles."—Dated 14th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 9th July*, 1859, *inclusive.*)

7th July.

1586. Robert Shaw, of Portlaw, in the county of Waterford, Ireland, Cotton Spinner and Manufacturer, for an invention of "Improvements in obtaining pressure applicable to machinery for preparing and spinning cotton and other fibrous materials, and other purposes."—Dated 7th July, 1856.

1616. William Bridges Adams, of No. 1, Adam Street, Adelphi, in the county of Middlesex, Engineer, for an invention of "Improvements in railway wheels, axles, and axle boxes."—Dated 9th July, 1856.

1647. William Bridges Adams, of No. 1, Adam Street, Adelphi, in the county of Middlesex, Engineer, for an invention of "Improvements in the permanent way of railways."—Dated 12th July, 1856.

8th July.

1622. Timothy Jerome, of 125, Great Hampton Street, Birmingham, in the county of Warwick, Button Manufacturer, for an invention of "Certain improvements in buttons for ornamenting and fastening dresses, as also in loops for attaching or holding buttons on garments while in use."—Dated 9th July, 1856.

1661. William Watt, of Belfast, in the county of Antrim, in Ireland, for an invention of "Improvements in the manufacture of starch."—Dated 15th July, 1856.

9th July.

1638. Robert Harrington, of Witham, in the county of Essex, Watch Maker, for an invention of "Improvements in umbrellas, parasols, walking sticks, whips, &c."—Dated 11th July, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 7th July, 1859.†

(Communicated by the Belgian Government.)

(For previous List, see No. 574 of this Journal.)

7317. Ch. Van Kalck, represented by X. Raclot, of Brussels, for an imported invention of "A furnace for annealing pins, bolts, and rivets."—Dated 26th March, 1859.—(French Patent, 15th April, 1859.)

7500. J. Kershaw, represented by H. Biebuyck, of Brussels, for "Improvements in weaving apparatus."—Dated 30th April, 1859.—(English Patent, 2nd March, 1859.)

7531. C. C. Caique, represented by X. Raclot, of Brussels, for "An air-reservoir for millstones."—Dated 10th May, 1859.—(H. Gilbert's French Patent, 7th July, 1857.)

7651. L. Borgeol, represented by H. Biebuyck, of Brussels, for "Apparatus for twisting and winding thread continuously."—Dated 15th June, 1859.—(French Patent, 9th June, 1859.)

7664. A. Pongowski, of Liége, for "Disinfecting all kinds of alcohol."—Dated 17th June, 1859.—(French Patent, 5th November, 1857.)

7671. A. Caron, of Liége, for "Breech-loading guns."—Dated 21st June, 1859.—(French Patent, 19th April, 1859.)

7672. J. Willem, of Liége, for "Improvements in Lefaucheux' guns."—Dated 21st June, 1859.

7673. J. B. Vande Velde, of Alost, for "A machine for twisting and softening thread."—Dated 17th June, 1859.

7674. C. L. J. Dierickx, represented by X. Raclot, of Brussels, for "Improvements in the manufacture of coin, and in sizing gold and silver planchets of all diameters."—Dated 21st June, 1859.

675. Candelot, alias Fulgens, of Brussels, for an imported invention of "A chemical process for obtaining waterproof coating, crystalline enamel and artificial marble."—Dated 22nd June, 1859.—(French Patent, 3rd May, 1858.)

7676. J. Mutet, represented by H. Biebuyck, of Brussels, for "Improvements in continuous power looms, applicable to all looms."—Dated 23rd June, 1859.—(French Patent, 18th November, 1852.)

7677. P. Vandevoorde, of Lokeren, a Patent of Improvement for "An apparatus for feeding boilers with chemical substances."—Dated 22nd June, 1859.—(Original Patent, 24th March, 1859.)

7678. C. Kingsford, of Mons, for "A centrifugal and centripetal propeller of vessels."—Dated 24th June, 1859.

7679. E. Bataille, represented by A. Depuichault, of Schaerbeek, for an imported invention of "Improvements in presses, dies, and punches."—Dated 24th June, 1859.—(French Patent, 8th September, 1858.)

7684. J. Cimeg, represented by H. Biebuyck, of Brussels, for an imported invention of "A process for silvering glass, mirrors, ceramic products, tissues, paper, &c."—Dated 24th June, 1859.—(Austrian Patent, 28th April, 1858.)

7681. E. L. Montefiore, of Liége, for "Treatment of lead ores and other lead substances."—Dated 24th June, 1859.

7682. R. A. Langer, of Ixelles, for "Applying animal or vegetable hair to jewellery."—Dated 7th June, 1859.

7683. J. J. J. Mary, of Schaerbeek, for "A sheet-iron apparatus for preserving meat and other organic substances."—Dated 25th June, 1859.

7684. A. Laurent, of St. Josse-ten-Noode, for "A product for manufacturing fermented beverage."—Dated 25th June, 1859.

7685. J. Foster, represented by A. Anoul, of Ixelles, for "Improvements in frames for rovings and spinning."—Dated 25th June, 1859.—(English Patent, 18th January, 1859.)

7686. J. S. Goodridge, represented by O. Daillencourt, of Brussels, for an imported invention of "A sewing machine for obtaining helical stitches."—Dated 25th June, 1859.—(French Patent, 11th June, 1859.)

7687. Vandenweghe-Weghsteen, of Bruges, for "A ventilating apparatus for cooling beer."—Dated 27th June, 1859.

7688. Th. Tissington, of Jupille, for "Breech-loading rifles, and projectiles for the same."—Dated 27th June, 1859.

7689. N. Van de Velde, of Ghent, for "A process for disinfecting and improving spirits."—Dated 25th June, 1859.

7690. J. G. Newberry, represented by P. Bals, of Brussels, for an imported invention of "A machine for cutting screws, bolts, and nuts."—Dated 27th June, 1859.—(English Patent, 9th September, 1858.)

7691. J. Davis, represented by P. Bals, of Brussels, for an imported invention of "Improvements in machines worked by air, gas, and steam."—Dated 27th June, 1859.—(English Patent, 6th July, 1858.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7692. A. Taylor, represented by P. Bals, of Brussels, for an imported invention of "Improvements in pianos and musical instruments."—Dated 27th June, 1859.—(English Patent, 27th July, 1858.)

7693. H. Cartwright, represented by P. Bals, of Brussels, for an imported invention of "Improvements in the construction of steam-engines."—Dated 27th June, 1859.—(English Patent, 3rd April, 1858.)

7694. Taylor, Roussillon, and Burel, represented by X. Raclot, of Brussels, for "A moveable machine for towing and propelling vessels."—Dated 27th June, 1859.

7695. W. Richards, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the construction of gas meters."—Dated 27th June, 1859.—(English Patent, 26th November, 1858.

7696. R. Garrett and J. Kerridje, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for thrashing and cleaning corn."—Dated 27th June, 1859.—(English Patent, 18th January, 1859.)

7697. A. R. André, of Charleroi, for "A machine for making nuts."—Dated 29th June, 1859.

7698. L. J. Beeckman, represented by D. Hérode, of Schaerbeek, for "A machine for collecting votes."—Dated 29th June, 1859.

7700. H. Potez and L. Sénéchal, represented by R. S. Kirkpatrick, of Ixelles, a Patent of Improvement for "A machine for screw-cutting bolts."—Dated 29th June, 1859.—(Original Patent, 2nd June, 1857.)

7701. J. M. B. S. Papillon, represented by O. Daillencourt, of Brussels, for an imported invention of "A smoke-consuming fire-place with a moveable grate."—Dated 29th June, 1859.—(French Patent, 14th May, 1859.)

7702. Bouillon, Muller, and Co., represented by O. Daillencourt, of Brussels, for an imported invention of "A washing machine."—Dated 29th June, 1859.—(French Patent, 19th April, 1858.)

7703. Bouillon, Muller, and Co., represented by O. Daillencourt, of Brussels, for an imported invention of "Fixed or portable hot-air drying kilns for various domestic or industrial purposes."—Dated 29th June, 1859.—(French Patent, 30th March, 1859.)

7704. Bouillon, Muller, and Co., represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in portable and fixed boilers, applicable to apparatus used for domestic or industrial purposes."—Dated 29th June, 1859.—(French Patent, 28th June, 1859.)

7705. Bouillon, Muller, and Co., represented by O. Daillencourt, of Brussels, for an imported invention of "Fixed and moveable apparatus for washing linen."—Dated 29th June, 1859.—(French Patent, 28th June, 1859.)

7706. M. Erard, of Lodelinsart, for "Improvements in irons for moulding the mouth and collars of bottles."—Dated 1st July, 1859.



THE NETHERLANDS.

List of Patents Delivered since the 3rd and 4th April, 1859.*

(Communicated by His Excellency the Minister of the Interior.)

(For previous List, see No. 551 of this Journal.)

1. Reuver and Silvie, of Paris, represented by J. J. von Dort, of Gravenhage, for an imported invention of "Improvements in machines for obtaining and condensing steam and vapours of other fluids, being especially applicable to steam engines in which steam of ether and other fluids may also be used."—10 years.—Dated 8th June, 1857.

2. R. S. Kirkpatrick, of Paris, represented by J. de Bas, of Gravenhage, for an imported invention of "Improvements in the treatment and machines employed in carbonizing peat, lignite, brown coal, wood, pit-coal and bones."—15 years, from the 14th February, 1856.—Dated 29th June, 1857.

3. E. J. Cusinberche, jun., of Paris, represented by L. J. Vonk, of Gravenhage, for an imported invention of "New substances and cement for moulding."—15 years, from the 7th May, 1857.—Dated 15th October, 1857.

4. Eng. Dumont, of Luik, represented by A. F. de Salle, at Gravenhage, for an imported invention of "A gas carburator."—15 years.—Dated 11th February, 1859.

5. P. A. Comte de Fontaine Moreau, of Paris, represented by L. J. Vonk, for an imported invention of "A new kind of tubular or cylindrical filtering apparatus."—10 years.—Dated 8th May, 1859.

* For the Dutch Patent Law, see No 289 of this Journal.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

List of Specifications published during the week ending 8th July, 1859.

No.	Price.	Subject-Matter.
2487	10*d.*	Distilling products from bituminous coal, &c.
2625	1*s.* 4*d.*	Steam engines.
2739	7*d.*	Pressure gauge.
2740	5*d.*	Purification of gas, &c.
2743	5*d.*	Portmanteaus, desks, &c.
2744	10*d.*	Furnaces and apparatus for annealing wire.
2745	5*d.*	Manufacture of cocks or taps.
2746	5*d.*	Fastening for doors, sashes, or frames.
2746	3*d.*	Railway and other wheels and wheel tyres.
2748	7*d.*	Agricultural implements.
2749	3*d.*	Manufacture of coloring matter for spirits, &c.
2750	5*d.*	Annealing kilns or ovens.
2751	7*d.*	Trucks for locomotive engines.
2752	6*d.*	Attaching sails to the yards of ships or vessels.
2753	4*d.*	Manufacture of useful alloys or alluminium.
2754	7*d.*	Combined bathing, washing, and water-closet apparatus.
2755	7*d.*	Manufacture of sugar.
2756	3*d.*	Manufacture of ropes, cables, cords, and lines.
2757	1*s.*	Machinery for winding yarns or thread.
2759	9*d.*	Railway wheels.
2760	6*d.*	Knapsacks.
2761	10*d.*	Manufacture of animal charcoal, &c.
2762	9*d.*	Loading fire arms, &c.
2763	3*d.*	Apparatus for measuring the human figure, &c.
2764	1*s.* 1*d.*	Generating gas from coal.
2765	3*d.*	Manufacture of pipes and tubes.
2766	3*d.*	Cornets, trumpets, &c.
2767	10*d.*	Maundrills for printing.
2768	3*d.*	Apparatus for ventilating mines, &c.
2769	3*d.*	Preventing draughts, &c. from window sashes.
2772	7*d.*	Machine for compressing and cutting tobacco.
2774	6*d.*	Furnace doors and dampers.
2775	7*d.*	Communicating railway signals.
2777	5*d.*	Looms for weaving.
2778	3*d.*	Breech-loading fire-arms.
2780	3*d.*	Chairs.
2781	3*d.*	Manufacture of boards or sheets when wood sawdust is used.
2782	3*d.*	Machines for stretching and drying fabrics.
2784	7*d.*	Harvesting machines.
2785	3*d.*	Mules for spinning.
2786	3*d.*	Combs, gills, hackles, &c.
2787	10*d.*	Manufacture of stoves and fire places.
2788	6*d.*	Envelopes.
2789	3*d.*	Agricultural machinery.
2790	3*d.*	Ornamental or colour printing.
2791	9*d.*	Machinery for cutting woollen fabrics.
2792	5*d.*	Machinery for raising the nap on woollen cloths.
2793	7*d.*	Indicating gauges
2794	6*d.*	Manufacture of gloves.
2795	6*d.*	Bolts for securing doors, &c.
2796	3*d.*	Railway and other breaks.
2797	4*d.*	Taps, valves, &c.
2798	3*d.*	Portable bath.
2799	3*d.*	Securing and liberating the corks and stoppers of bottles.
2800	3*d.*	Apparatus for hot-pressing woven fabrics
2801	3*d.*	Machinery for embroidering woven fabrics.
2802	3*d.*	Apparatus for refrigerating and regulating the temperature of worts and beer.
2803	3*d.*	Steam fire engines, &c.
2804	10*d.*	Apparatus for the manufacture of boots and shoes.
2805	3*d.*	Healds for weaving.
2806	5*d.*	Pumping and forcing liquids.
2807	3*d.*	Obtaining and purifying naphtha, paraffine and other oils, &c.
2808	11*d.*	Machinery for carding, scribbling, and condensing wool, &c.
2809	6*d.*	Registering apparatus for lever balances.
2810	9*d.*	Manufacture of animal or vegetable charcoal.
2811	3*d.*	Hydraulic counter.
2812	3*d*	Floating paddle wheel.
2815	1*s.* 4*d.*	Apparatus for superheating steam.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
Bavaria, No. 262.
Belgium, Nos. 292 and 348.
Baden, and Petty States of Germany, No. 325.
Canada, No. 279.
Cuba, No. 498.
Dutch West Indies, No. 322.
France, No. 228.
Greece, No. 325.
Germany, No. 435.
Hanover, No. 231.
India, Nos. 240, 348, and 552.
Mexico, No. 496.
Netherlands, No. 289.
New South Wales, No. 386
Prussia, Nos. 313 and 329.
Parma, Piacenza, and Guastalla, No. 321.
Portugal, No. 325.
Poland, No 335.
Roman States, No. 319.
Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 527 and 354.
Victoria, Nos. 1-6 and 350.
Wurtemberg, No. 314.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 9th July, 1859.

Mornings - - - -	1244
Evenings - - - -	959
Total - - -	2203

Since the opening of the Museum Free Daily (May 12, 1858,)—116,215.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of 2*l.* 3*s.* 11½*d.*

FIRE-ARMS, PROJECTILES, &c.—The series of Specifications and Drawings on this Subject, from 15th May, 1718, to 31st December, 1853, with Alphabetical and Subject-matter Indexes, may be obtained at the cost price of 9*l.* 18*s.* 6½*d.*

The Indexes, separately, price 3*s.*

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. CURTIS for a Patent. Price 1*s.*

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s.* 6*d.*

In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

The classes already published are,—

1. DRAIN TILES AND PIPES, price 6*d.*
2. SEWING AND EMBROIDERING, price 6*d.*
3. MANURE, price 6*d.*
4. PRESERVATION OF FOOD, price 6*d.*
5. MARINE PROPULSION, price 4*s.*
6. MANUFACTURE OF IRON AND STEEL, price 5*s.*
7. AIDS TO LOCOMOTION, price 1*s.*
8. STEAM CULTURE, price 2*s.*
9. WATCHES, CLOCKS, AND OTHER TIMEKEEPERS, price 1*s.* 6*d.*
10. FIRE-ARMS AND OTHER WEAPONS, AMMUNITION, AND ACCOUTREMENTS, price 6*s.* 6*d.*
11. PAPER.—PART I. MANUFACTURE OF PAPER, PASTEBOARD, AND PAPIER MÂCHÉ, price 3*s.*
12. TYPOGRAPHIC, LITHOGRAPHIC, AND PLATE PRINTING, price 7*s.*
13. BLEACHING, DYEING, AND PRINTING YARNS AND FABRICS, price 9*s.* 6*d.*

The following are in the press:—

PAPER.—PART II. CUTTING, FOLDING, AND ORNAMENTING; INCLUDING ENVELOPES, CARDS, PAPER-HANGINGS, &c.
ELECTRICITY AND MAGNETISM: THEIR GENERATION AND APPLICATIONS.
PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

LONDON:
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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 577. FRIDAY, JULY 15, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1402. To WILLIAM BUMESS, of 2, Prospect Terrace, Brixton, in the county of Surrey, for the invention of "Improvements in steam culture machinery, part of which is applicable to steam cartage and other purposes."

On his petition, recorded in the Office of the Commissioners on the 9th day of June, 1859.

1450. To THOMAS WHARTON JONES, of 35, George Street, Hanover Square, in the county of Middlesex, Esquire, for the invention of "Stereoscopic glasses for single pictures."

On his petition, recorded in the Office of the Commissioners on the 16th day of June, 1859.

1472. To JOSIAH FIRTH, of Heckmondwike, near Leeds, in the county of York, Manufacturer, and JAMES CRABTREE, of Mill Bridge, Leeds, in the county of York, Overlooker, for the invention of "Improvements in the manufacture of carpets."

On their petition, recorded in the Office of the Commissioners on the 18th day of June, 1859.

1494. To LEMUEL DOW OWEN, of No. 192, Tottenham Court Road, in the county of Middlesex, Engineer, for the invention of "Improvements in machinery for manufacturing bolts and nails."—A communication from Foreigners residing abroad, videlicit, by Messieurs Buck and Company, Engineers, of Lebanon, New Hampshire, in the United States of America.

On his petition, recorded in the Office of the Commissioners on the 21st day of June, 1859.

1532. To ROBERT DICK, of the city of Toronto, in the county of York, and province of Canada, for the invention of "Keeping accounts current in printed form, for addressing cards, circulars, papers, and periodicals of all kinds, with great rapidity," by the aid of a very simple machine, which is a constituent part of this invention."

On his petition, recorded in the Office of the Commissioners on the 27th day of June, 1859.

1539. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in variable cut off gear for producing expansion in steam and other motive engines."—A communication from abroad by Ambrose Foster, Noah Sutton, and James Stephens, all of New York.

1541. And to JOHN MARIA JOSEPH BAILLIE, of No. 15, St. Mary Axe, in the city of London, for the invention of "A new process for tanning hides and skins."—A communication from Monsieur A. Paulmier, resident at Paris, in the empire of France.

On both their petitions, recorded in the Office of the Commissioners on the 28th day of June, 1859.

1542. To JAMES NASH, of Mill Wall, in the county of Middlesex, Smith, for the invention of "An improved disengaging block."

1543. To GEORGE HALL, jr., of Montrose, in the county of Forfar, North Britain, Farmer, for the invention of "Improvements in reaping machines."

1544. To ALEXANDER MCDOUGALL, of Manchester, in the county of Lancaster, Chemist, for the invention of "Improvements in the preparation of disinfecting and antiseptic substances."

1547. To WILLIAM WILKINSON, of Bayswater, in the county of Middlesex, Engineer, and DAVID WHITE, of High Holborn, in the same county, Surveyor, for the invention of "Improvements in apparatuses for holding, regulating, compressing, and burning gas and other gaseous fluids, parts of which apply to the holding of liquids."

1548. To Isaac Tirebuck, of Windsor Court, in the city of London, Printer, for the invention of "Improved machinery for printing from engraved plates."

1549. To William John Thompson Williamson, of 37, Gerrard Street, Soho, in the county of Middlesex, for the invention of "Improvements in gas burners."

1550. To George Chapman, of Rutland Street, Leicester, for the invention of "Improvements in knitting machines."

1551. To John Joseph Griffin, of 119 and 120, Bunhill Row, in the county of Middlesex, for the invention of "Improvements in gas furnaces suitable for fusing refractory metals."

1552. And to George Baker, of Birmingham, in the county of Warwick, for the invention of "Improvements in the manufacture of metallic lattice or trellis work."—A communication from abroad by Owen Carraway, late of New York.

On their several petitions, recorded in the Office of the Commissioners on the 29th day of June, 1859.

1553. To Edward Francis, of Wrexham, in the county of Denbigh, Grocer, for the invention of "Apparatus for facilitating the making up or packing of sugar, and other articles of grocery, and other substances."

1555. To Richard Kay, Cotton Spinner, John Manock, Manager, John Whittaker, Mechanic, and Thomas Booth, Operative Cotton Spinner, all of Heywood, in the county of Lancaster, for the invention of "Improvements in machinery for slubbing, roving, spinning, and doubling cotton, and other fibrous materials."

1556. To William Bestwick, of Salford, near Manchester, in the county of Lancaster, Crinoline Steel Manufacturer, for the invention of "Improvements in crinoline steel for ladies' dresses, skirts, and other similar purposes."

1557. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in lithographic and chromo-lithographic presses."—A communication from abroad, by Jean Théodore Dupuy, of Paris.

1558. To Louis Boigeol, of Giromagny, near Belfors, town in the French empire, Manufacturer, for the invention of "Improved machinery for winding and twisting fibrous materials."

1559. To Thomas Bell, of Plaistow, in the county of Essex, for the invention of "Improvements in the manufacture of manure."

1562. To Jeptha Avery Wilkinson, of Brooklyn, in the state of New York, United States of America, for the invention of "Improvements in printing presses and apparatus connected therewith."

1563. To William Summerscales the elder, and John Summerscales, of Keighley, in the county of York, Machine Makers, for the invention of an "Improved wringing and mangling machine."

1564. And to Julian Bernard, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for the invention of "Improvements in uniting certain parts of boots and shoes, and in the means employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of June, 1859.

1565. To James Rait Beard, of the city of Manchester, in the county of Lancaster, Merchant, for the invention of "Improvements in the manufacture of artificial whalebone, applicable to umbrellas, parasols, stays, hats, bonnets, reeds, crinolines, and other similar purposes."

1566. To Abel Jones, of Blackburn, in the county of Lancaster, Mechanic, for the invention of "Improvements in machinery or apparatus for drawing-in, twisting, or looming textile materials."

1567. To Bridge Standen, of Salford, in the parish of Manchester, in the county of Lancaster, Chymist, for the invention of "Improvements in the deoderizing and separation of fecal and putrescent organic matters, in the preparation or manufacture therefrom of a portable artificial manure or fertilising compound, and in apparatus to be employed in such preparation or manufacture."

1568. To Anton Carron, of No. 25, Little Moorfields, in the city of London, for the invention of "An improved loom for the manufacture of silk and other velvet."—A communication from abroad by Henri Carron, of No. 2, Rue St. Jean, Lyons, in the empire of France.

1569. To Nesserwanjee Ardaseer, British Subject, of Bombay, East Indies, for the invention of "An improved method of making steam boilers."

1570. To Joseph Bennett Howell, of Sheffield, in the county of York, Steel Manufacturer, for the invention of "Improvements in the treatment of iron."

1571. To Edward Wilson Carter, of Rochdale, in the county of Lancaster, Cutler, for the invention of "Improvements in machinery or apparatus for sewing."

1572. To Edwin Archer Wood, of Victoria Terrace, Notting Hill, in the county of Middlesex, of the Peninsular and Oriental Steam Navigation Company, and Martin Dadd Rogers, of Bromley, in the county of Middlesex, Shipwright, for the invention of "Improved apparatus for raising and lowering boats."

1573. To Samuel Fisher, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in ordnance and projectiles."

1574. To Robert Royds and Anthony Harcourt, both of Woolston, in the county of Hants, Engineers, for the invention of "An improved composition for protecting the bottoms of ships and other structures of iron."

1575. To William Riddle, of Westbourne Terrace, Barnsbury Park, Islington, in the county of Middlesex, for the invention of "Improvements in advertisement show cards or boards."

1576. To William Edward Kenworthy, of Water Lane, Leeds, in the county of York, Agricultural Chemist and Shoddy Merchant, for the invention of "Improvements in purifying gas, and saving of lime in the said purifying."

1577. And to Mark Bogg, of Duggleby, near Malton, in the county of York, Joiner, for the invention of "Improvements in washing machines."

On their several petitions, recorded in the Office of the Commissioners on the 1st day of July, 1859.

1578. To Charles Hill Penny Cook, of Glasgow, in the county of Lanark, North Britain, Tinsmith, for the invention of "Improvements in ventilators and ventilating flue or chimney tops."

1579. To Robert Whiteside Morville, of Pendleton, Salford, in the county of Lancaster, late of the United States, Engraver, for the invention of "Improvements in mechanism, or arrangements for suspending and securing window sashes."—A communication from abroad by Porter A. Gladwin, of Pawtucket, Rhode Island, United States.

1580. To Thomas James Hart, of Birmingham, in the county of Warwick, Gun Barrel Manufacturer, for the invention of "Improvements in breech loading fire-arms."

1581. To Charles George Guy, of Liverpool, in the county of Lancaster, Engineer and Boiler Maker, James Brough, of the same place, Boiler Maker, and Robert Cotton, of the same place, Gentleman, for the invention of "An improved upright steam boiler."

1582. To Edouard Fourmaux, junior, of Provin, in the department of the North, empire of France, for the invention of "A new weaving loom."

1583. To Charles Hanson Greville Williams, of 39, Regent Square, Gray's Inn Road, in the county of Middlesex, for the invention of "Improvements in dyeing fabrics and yarns."

1584. To Hermann Hirsch, of Berlin, in the kingdom of Prussia, for the invention of "Improvements in screw propeliors."

1585. And to Henry Harris, of Newport, Isle of Wight, for the invention of "An improved method of connecting together the parts of which bedsteads and other furniture are composed."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of July, 1859.

1586. To Joseph Simon, residing in Paris, Passage des Petites Ecuries, No. 5, for the invention of "A composition named zeiodelite, a kind of paste which becomes as hard as stone, is unchangeable by the air, and being proof against the action of acids, may replace lead and other substances for various uses."

1587. To James Hollingworth, of the Clyde Paper Mills, Eastfield, in the county of Lanark, North Britain, Manager, for the invention of "Improvements in machinery or apparatus for the manufacture of paper."

1588. To Robert Lane, of Cirencester, in the county of Gloucester, Machinist, for the invention of "Improvements in mills for grinding grain and other materials."

1590. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "An improved hemmer or apparatus, to be used in connection with sewing machines, for turning over and presenting the edge of the material to be hemmed properly to the needle."—A communication from abroad, by Joseph Poole Pirsson, of New York.

1591. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "A cementing powder or mixture, and process for cementing, converting, refining, strengthening, and steelifying iron."—A communication from abroad, by Job Johnson, of East Brooklyn, Long Island, in the state of New York.

1592. And to Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improvement in the process of, and improved apparatus for, separating metals from their ores."—A communication from abroad, by Lewis Solomon, of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 4th day of July, 1859.

1593. To James McIntosh, of Glasgow, in the county of Lanark, North Britain, Tanner and Currier, for the invention of "Improvements in the manufacture of leather driving belts."

1594. To William Knapton, of Albion Foundry, Monkbar, in the city of York, and Adam Aitchison, of Knottingley, in the county of York, for the invention of "Improvements in the manufacture of gas."

1597. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved apparatus for moving iron or other metals while the same is in process of manufacture at the rolls."—A communication from abroad by Charles Hewitt, of the city of Trenton, in the state of New Jersey, one of the United States of America.

1599. And to John Watkins, of the Cwmamman Colliery, Aberdare, in the county of Glamorgan, Agent, and James Pugh, of the same place, Mechanic, for the invention of "Improvements in lubricating wheels."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of July, 1859.

1601. To Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, (Patent Agent,) for the invention of "An apparatus for washing wool, manufactured or not, and all other matters."—A communication from abroad by Eugène Pasquier, No. 10, Rue Mogador, Paris, in the empire of France.

1603. To Joshua Horton, of Dudley, in the county of Worcester, Machinist, for the invention of "A new or improved gas meter."

1605. To Samuel Burton Haskard, of Wollaton Street, in the town and county of the town of Nottingham, Spring, Point, and Guide Manufacturer, for the invention of "Improvements in the manufacture of hook guides used in machines for the making of lace or other fabrics."

1607. To Louis Schwartzkopff, of Berlin, and Ferdinand Carl Philippson, of Dusseldorf,

for the invention of "Improvements in steam hammers, and in machines for cutting files, and for planing and grooving iron, stone, and other substances."

1609. And to JOHN THOMAS EDMONDS, of Prestwood, Great Missenden, in the county of Bucks, Ironfounder, for the invention of "Improvements in winnowing or corn-cleaning machines, parts of which are applicable for other screening or sifting purposes."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of July, 1859.

1613. To JOHN KNOWELDEN, of Southwark, in the county of Surrey, Engineer, and DOWNES EDWARDS, of Upper Belgrave Place, in the county of Middlesex, Gentleman, for the invention of "Improvements in hydraulic engines and pumps, and the employment of apparatus for applying motive power."

1615. To Sir FRANCIS CHARLES KNOWLES, of Lovell Hill, in the county of Berks, Baronet, for the invention of "Improvements in making iron castings."

1617. And to WILLIAM ROBINSON, of Wembdon, Bridgewater, in the county of Somerset, Brewer, for the invention of "Improvements in cask washing machines."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of July, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the Petition of

1621. WILLIAM WAITE, of York House, No. 48, Baker Street, Portman Square, in the county of Middlesex, praying for Letters Patent for the invention of "Manufacturing bonnets, hats, and other articles, partly or entirely from the leaves of the palm tree, or other flat or thin material," was deposited and recorded in the Office of the Commissioners on the 8th day of July, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

13th July, 1859.

120. JOSEPH BARRANS, of 2, Caledonian Terrace Queen's Road, Peckham, in the county of Surrey, for an invention of "Improvements in traction and portable steam engines."—Dated 13th January, 1859.

15th July.

128. JOSEPH ECCLES, of Blackburn, in the county of Lancaster, Cotton Manufacturer, for an invention of "Improvements in the manufacture of articles from clay earths for building purposes, as substitutes for such articles as are usually formed of stone and other materials."—Dated 15th January, 1859.

143. ROGER GEORGE SALTER, of Alphington, in the county of Devon, Engineer, for an invention of "Improvements in apparatuses for collecting or picking up letters, papers, and other articles requiring to be stamped or printed."—Dated 17th January, 1859.

144. GEORGE COLLIER and JOHN COLLIER, both of Halifax, in the county of York, for an invention of "Improvements in means or apparatus for washing and drying wool and other fibres, part of which improvements is also applicable for other purposes where steam, hot water, or other fluids are required to be conveyed under pressure through moveable connections."—Dated 17th January, 1859.

149. GEORGE HAMILTON, of Liverpool, in the county of Lancaster, Professor of Chemistry, Queen's College, Liverpool, aforesaid, for an invention of "Improvements in treating rosin and resinous subjects to obtain products therefrom, and in treating the products obtained from rosin and resinous substances."—Dated 18th January, 1859.

151. CHARLES DICKSON ARCHIBALD, of Rusland Hall, in the county palatine of Lancaster, England, Esquire, at present being in the city of New York, United States of America, for an invention of "Generating force."—A communication from Henry Munro Paine, residing at Worcester, Mass.—Dated 18th January, 1859.

152. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "An improved silk thread, and a new fabric made entirely or partially from the same."—A communication from C. Depoully, senior, residing at Paris.—Dated 18th January, 1859.

156. WILLIAM TROTTER, of South Acomb, in the county of Northumberland, Farmer, for an invention of "Improvements in reaping machines."—Dated 18th January, 1859.

160. PEHR AMBJÖRN SPARRE, of Stockholm, but now of 50, Chancery Lane, in the county of Middlesex, for an invention of "Improvements in the manufacture of paper suitable for bank notes, cheques, bills, and similar articles."—Dated 19th January, 1859.

162. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention of "Improvements in machinery or apparatus for measuring and sorting silk and other textile materials."—A communication from Jules Veyrin, Silk Merchant, residing at Lyons, in the empire of France.—Dated 19th January, 1859.

164. EBENEZER STEVENS, of 5, Patriot Row, Cambridge Road, in the county of Middlesex, for an invention of "An improved cooking utensil."—Dated 19th January, 1859.

166. WILLIAM POUPARD, of Blackfriars Road, in the county of Surrey, Engineer, for an invention of "An improved wheel-skid or shoe."—Dated 19th January, 1859.

171. HARVEY HILLIARD and THOMAS CHAPMAN, Cutlery Manufacturers and Patentees of the 'Furbator,' of Glasgow, in the county of Lanark, North Britain, for an invention of "Improvements in

table-knives and in table-knife sharpeners."—Dated 20th January, 1859.

172. Abraham Lindo, of Batignolles, in the French empire, Chemist, for an invention of "Improvements in manufacturing soap."—Dated 20th January, 1859.

176. Samuel Phillips, of Moseley, in the county of Worcester, Gentleman, for an invention of "Improvements in sliding sashes, shutters, or doors."—Dated 20th January, 1859.

189. Richard Howell, of Smethwick, in the county of Stafford, Gas Fitter, and Richard James Willder, of Birmingham, in the county of Warwick, Hatter, for an invention of "An improvement or improvements in taps or stopcocks."—Dated 21st January, 1859.

245. Thomas Hartshorne, of West Bromwich, in the county of Stafford, Brass Founder, for an invention of "An improved metal to be used for making journey brasses for mills, rollers, forges, and all kinds of shafts and machinery, and also for shipping, and for bearings for shafts and journey brasses in general."—Dated 27th January, 1859.

252. George Francis Bradbury, of Oldham, in the county of Lancaster, and Joseph Jackson King, of Glasgow, in the county of Lanark, North Britain, for an invention of "Improvements in certain apparatus applicable to sewing machines."—Dated 27th January, 1859.

256. William Robertson, of the city of Manchester, in the county of Lancaster, Mechanician, for an invention of "A new apparatus for propelling boats on canals, rivers, and lakes of moderate depth."—Dated 28th January, 1859.

301. Samuel Tearne, of Birmingham, in the county of Warwick, Japanner, for an invention of "Improvements in ornamenting surfaces."—Dated 2nd February, 1859.

336. Thomas Russell Ayerst, of Newenden, in the county of Kent, Bookkeeper, for an invention of "Improvements in breech-loading guns and other fire arms."—A communication from abroad by James Hunter Sears, of Brantford, in the county of Brant, Upper Canada.—Dated 5th February, 1859.

496. Samuel Russell, of No. 12, Sheaf Gardens, Sheffield, in the county of York, Britannia Metal Manufacturer, for an invention of "An improvement in the manufacture of handles for tea and coffee-pots, jugs, kettles, knives, daggers, and forks, or any other description of article to which handles are applied."—Dated 23rd February, 1859.

511. Thomas Callender Hinde, of Dudley, in the county of Worcester, Iron Merchant, and George James Hinde, of Wolverhampton, in the county of Stafford, Merchant, for an invention of "Improvements in coating iron with copper or alloys of copper."—Dated 25th February, 1859.

556. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the construction of barometers or instruments to indicate pressure."—A communication from Mr. Alfred Nobel, of Paris, a foreigner residing abroad.—Dated 2nd March, 1859.

986. Christopher Batty, of Manchester, in the county of Lancaster, Collector, for an invention of "An improved means or apparatus for effecting instantaneous communication on railways between passengers and officials."—Dated 19th April, 1859.

1004. John Davies, of Tetbury, in the county of Gloucester, Machinist, for an invention of "A new or improved apparatus for ringing door bells, and a bolt to be used with the said apparatus and for other purposes to which the said bolt is or may be applicable."—Dated 21st April, 1859.

1009. George Roberts and John Bridges, of No. 20, Ponsonby Place, Vauxhall Bridge Road, in the county of Middlesex, for an invention of "Improvements in the manufacture of candles."—Dated 21st April, 1859.

1043. Herbert Allman, of Mornington Place, Hampstead Road, London, Consulting Engineer, for an invention of "Certain improvements in the construction of window-blind mountings and in apparatus connected therewith."—Dated 26th April, 1859.

1160. Frederick Vernon Hadlow, of 8, Prince Albert Street, Brighton, in the county of Sussex, Engraver, for an invention of "An improved stamp for marking linen and other wearing apparel."—Dated 9th May, 1859.

1167. William Frost Nuthall, of North Lodge, Kilburn, in the county of Middlesex, a Major in Her Majesty's Bengal Army, for an invention of "Improvements in ordnance and fire-arms, and in projectiles to be used therewith."—Dated 10th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

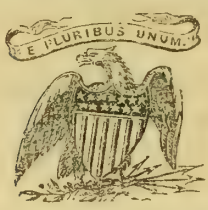
(*To 13th July*, 1859.)

1660. William Clibran and Joseph Clibran, of the city of Manchester, Machinists and Manufacturers of 'Gas Regulators,' for an invention of "Improvements in apparatus or mechanism for regulating and measuring gas."—Dated 15th July, 1856.

1670. Henry Turner, of Leeds, in the county of York, Leather Merchant, for an invention of "Improvements in cutting hides for making flexible pipes and for certain other purposes."—Dated 16th July, 1856.

1767. William Wood, of Monkhill House, near Pontefract, in the county of York, Gentleman, for an invention of "Improvements in machinery or apparatus for weaving pile fabrics."—Dated 25th July, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 28th June, 1859, and each bearing that date.

No. 24,528. JAMES N. ALLEN, of Providence, R.I., for an "Improvement in constructing rims and field pieces for watch and locket cases."

"I claim making the rim and field piece for watch or locket cases, from a strip of sheet metal, substantially as described."

No. 24,529. C. M. ALEXANDER, of New Albany, Ind., for an "Improvement in vapor lamp burners."

"I claim the combination of a retort having converging sides, and constructed substantially in the manner herein set forth, with an inlet pipe, an outlet pipe, and a burner, for the purpose of forming a gas generating apparatus, to be used in connection with fluid lamps, as is herein fully described."

No. 24,530. JOSHUA C. BEAN, of Grayville, Ill., for an "Improvement in seeding machines."

"I claim the arrangement of the hopper (C) and arms (i, i^1), in combination with the inclined equalizer (h), the whole being constructed substantially as and for the purposes set forth."

No. 24,531. WM. BEAUMONT, of Paterson, N. J., for an "Improvement in gas retorts."

"I claim making all that part of a retort, which is most subject to expansion and contraction, corrugated, to prevent fracture, as herein described."

No. 24,532. EDWD. BECK, of Allentown, Pa., for an "Improved contrivance by which the workman operates scroll saws."

"I claim the oscillating platform L, connected with the shaft C, by means of the straps h, h, and pulley D, or their equivalents, the arm E, pitman F, and spring I, arranged for joint operation, substantially as and for the purpose set forth."

No. 24,533. HENRY BETTS, of Hamilton City, Canada West, for an "Improvement in railroad bars or rails."

"What I claim is, the angle rail, in combination with the outside bar, where the space between them is filled in with cement, prepared by boiling sand and coal tar, in such proportions as will best resist the action of the elements, cold, heat, and moisture, and the wear of the wheels."

No. 24,534. MILTON B. BIGELOW and ANSON HARDY, of Boston, Mass., for an "Improved fire-proof desk."

"What we claim is, the movable table d, or any device essentially the same, in combination with the fire-proof case a, a, a, said table being constructed and made so as to operate in the manner substantially as and for the purposes herein specified. We also claim the slide f, or any device essentially the same, in combination with the movable table d, and the fire-proof case a, a, a, for supporting or assisting to support said movable table, whenever said table is drawn out to the position shown in Fig. 2, said slide and said table being connected and made, so as to operate in the manner and for the purpose substantially as herein specified and shown. We also claim the brackets q, q, or any device substantially the same, in combination with the fire-proof case a, a, a, for supporting or assisting to support the movable table d, and the slide f, in the manner and for the purpose, substantially as herein shown and explained."

No. 24,535. NELSON BIRDSALL, of Port Jervis, N. Y., for an "Improved spring hinge."

"I claim the combination and arrangement of the spring E, and adjusting piece G and H, applied to a hinge, as described and specified. I also claim inserting within the spiral spring E, the tubular spring I, as described, for assisting the action of the spiral spring, and preventing it from setting or getting out of plane with the other parts, as set forth and specified."

No. 24,536. L. E. BURDIN, of Paris, Ky., for an "Improvement in ploughs."

"I claim the arrangement of the beam M, the handles N the standard K, brace H, share B, landside F, cone A, spindle or shaft E, braces C and G, and lug o, as described, for the purposes set forth."

No. 24,537. ALEXANDER, WILLIAM, and JAMES CAMPBELL, of Harrison, Ohio, for an "Improvement in corn planters."

"We claim the described arrangement of the inclined slides or valves H, H^1, levers J, J^1, adjustable rods o, o, and cam wheel K, k, for the purpose explained."

No. 24,538. JAMES A. CAMPBELL, of New Orleans, La., for a "Job and card printing press."

"I claim fastening the cylinder permanently on its solid axle E, and also fastening the ends of this axle securely into the slides F. I also claim, in combination with the cylinder L, the revolving of the roller frame H, on the solid axle E, as its working centre, while the axle itself does not revolve either by eccentric wheels, which are to be used when the cylinder vibrates, or by plain ones, when it is stationary. I also claim the eccentric wheels G and G^1, in combination with the cylinder L, for the purposes specified. I also claim the cranks R and connecting rods D in combination with the cylinder L, the inking frame H, and the eccentric wheels G and G^1. I also claim the combination of the cranks S, the connecting rods T, the slots Y, the pins W, and the buttons X, with this press, as specified and described."

No. 24,539. W. I. CANTELO, of Burlington, N.J., for an "Improvement in stoves."

"I claim the exterior casing A, and inner adjustable casing H, in combination with the fire pot F, and cone-shaped grate G, when the several parts are arranged, substantially, as and for the purpose herein set forth."

No. 24,540. THOS. F. CHRISTMAN, of Wilson, N.C., for an "Improvement in machine for hoisting bricks."

"I claim the combination of the rollers D, D, with the saddle and buckets E, F, supported by rollers J, J, the whole combined and described as a machine for elevating brick, and made to operate in the manner as set forth."

No. 24,541. GILES CRAMTON, of Marshall, Mich., for an "Improvement in seed planters."

"But what I claim, is, the application and use of the pulleys P^1, P^2, P^3, in combination with the adjustable hanger T, tension bar R, lever H^2, and yoke U, with its attached spring stops W, W, the whole being arranged, constructed, and operated substantially as and for the purposes specified."

No. 24,542. CALEB B. DAVIS, of Lawrenceburgh, Tenn., for an "Improvement in machines for sowing fertilizers in drills."

"I claim the arrangement of hopper A, wheels B^1, B^2, frame C, C, handles D, D, shoe E, handle of shoe H, pins on wheels b, b, and axle-trees G, G, as described, for the purpose set forth."

No. 24,543. AURELIUS DICKINSON, of Claremont, N. H., for an "Improvement in apparatus for purifying gas."

"What I claim, is, the washer constructed as described, with horizontal plates B, B, corrugated, or with the bottoms

partly or wholly concave, and with upright plates projecting above and below the said plates, and dipping into the water below the said plates, and with orifices so arranged in the highest portions of the said horizontal plates as to cause the collection of the gas in the concave portions of the said plates, below and around said orifices, substantially as herein described."

No. 24,544. Geo. Dieffenbach, of New York, N.Y., for an "Improvement in bases for artificial teeth."

"What I claim, is, the composition of matter, consisting of sulphate of alumina, and other ingredients, substantially as described, for the purpose as set forth."

No. 24,545. Geo. Dieffenbach, of New York, N. Y., for an "Improvement in process for coloring artificial teeth."

"What I claim, is, developing the color of a cured or hardened composition, by the agency of solar light, when the coloring matter is incorporated into the said composition while in its plastic or uncured state, substantially as described."

No. 24,546. Wm. T. De Golyer, of Schenectady, N. Y., for an "Improvement in connecting boards for roofs, &c."

"I claim covering the joints of boards or plank, for roofing by means of sheets of metal, bent in the form shown at *a*, *b*, *c*, so that the strips of wood, or other packing used, shall lie on as well as against the flanges turned on said sheet metal, as represented."

No. 24,547. John H. Dukme, of Cincinnati, Ohio, for an "Improvement in furnaces."

"What I claim, is, the arrangement of the flue spaces A, A^1, controlled by dampers H and G, for the purpose of increasing and perfecting the combustion, substantially as set forth."

No. 24,548. J. Henry Ferguson, of Baltimore, Md., for an "Improvement in cartridges."

"What I claim is, a waterproof and inflammable cartridge made substantially as described."

No. 24,549. Benj. G. Fitzhugh, of Frederick, Md., for an "Improvement in harvesting machines."

"What I claim is, the combination of a rake and reel revolving on the same shaft, when the rake is so made as to deliver the cut material in a line oblique to the swath of the machine, substantially as described."

No. 24,550. Moses R. Flanders, of Parishville, N. Y., for an "Improvement in grain cradles."

"What I claim is, attaching the finger standard B to the snath A by means of the rod *c* and eye *b*, secured respectively to the standard and snath, in connection with the compensating or adjustable braces H, J, the whole being constructed and arranged substantially as and for the purpose set forth."

No. 24,551. Peter Fontain, of Philadelphia, Pa., for an "Improvement in gas purifiers."

"What I claim is, the receptacle or receiver E, in combination with the filtering and purifying apparatus, arranged and operating substantially as described, for the purpose set forth."

No. 24,552. John Galt, of Philadelphia, Pa., for an "Improved reciprocating propeller."

"What I claim is, first, combining the buckets E, E, and E^1, E^1, with the frames D, D^1, and with the driving rods F, F^1, or their equivalents, by means of cross heads G, G^1, and H, H^1, link connections *f*, *f*, f^1, f^1, and slots *c*, *c*, c^1, c^1, and *d*, *d*, d^1, d^1, substantially as and for the purpose herein specified. Second, the construction of the propellers with their frames D, D^1, of flaring form, and with their buckets fitted to the smaller front portions thereof, substantially as and for the purpose herein specified. Third, constructing the driving rods each in two parts, one of which, connected with the buckets, is capable of being connected with or disconnected from the other at pleasure, for the purpose either of closing the buckets before the backward movement and opening them before the forward movement of the propeller frame D or D^1 commences, or of causing the closing of the buckets before the forward, and the opening of them before the backward, movement, as may be desired, and thereby enabling the action of the propeller to be reversed without reversing the engine."

No. 24,553. W. H. Gray, of Dover, N. H., for an "Improvement in the let-off motion for looms."

"I claim the board or plate *k* and springs *n*, *n*, applied to the breast beam of the loom, and combined with a clutch, by which the yarn beam can be thrown into gear with the cam shaft or crank shaft of the loom, to operate substantially as and for the purpose herein described."

No. 24,554. Christian Gingrich and Joseph K. Gingrich, of Annville, Pa., for an "Improvement in rotary harrows."

"We claim the cleavers H in combination with roller G and ring B, when arranged substantially as and for the purposes herein set forth."

No. 24,555. C. P. Gronberg, of Montgomery, Ill., for an "Improvement in raking attachment for harvesters."

"I claim the peculiar arrangement of the mechanism, namely, the reciprocating rack bar D and semicircular toothed bar *d* in connection with the bent rack shaft E, provided with a spring *h*, arm *m*, and part pinion G^1, and the semicircular bar *j* on the support e^1, provided with teeth *k* and a projecting arm *n* for joint operation, substantially as and for the purpose set forth."

No. 24,556. Heinrich Guth, of New York, N. Y., for an "Improvement in alcohometers."

"What I claim is, an alcohol indicator, substantially such as described, by which the evaporation of a fixed quantity of alcoholic liquid is made to indicate the exact per centage of alcohol contained in the said liquid, for the purpose set forth."

No. 24,557. James Harrison, jr., of New York, N. Y., for an "Improvement in machine for making upholstery springs."

"What I claim is, 1st, giving one or more of the forming rollers a positive rotary motion at a velocity which causes its or their periphery or peripheries to move faster than the periphery of that part of the mandrel in conjunction with it, or they, at any time are in operation, substantially as and for the purpose set forth. 2nd, connecting the axle of the roller g^2, or any of the forming rollers, by a link and two universal joints with a shaft having a longitudinally sliding and also a rotary motion, for the purpose of giving the said roller a rotary motion and a motion along the mandrel, and allowing it to accommodate its position to the varying diameter of the mandrel, substantially as herein described."

No. 24,558. I. F. Holloway, of Saline Mines, Ill., for an "Improved ship's capstan."

"What I claim is, a capstan, having a vertical movement, as well as a rotary one, substantially in the manner and for the purpose specified."

No. 24,559. Marcus L. Horton, of Lebanon, N. H., for an "Improvement in stoves."

"I claim the ventilator I, with valve *h*, and hood *g*, as arranged, and in combination with chambers H, H^1, E, E^1, and flues G, G, and D, operating as described, and for the purpose set forth."

No. 24,560. D. L. Hubbard, of Glastenbury, Conn., for an "Improvement in apparatus for tanning."

"I claim the wheel or cylinder B, having its periphery formed of oblique slats *c*, placed within the vat A, and arranged to operate as and for the purpose set forth. I further claim, in combination with the wheel or cylinder B, constructed as described, the apron C, for the purpose specified."

No. 24,561. Wm. G. W. Jaeger, of Baltimore, Md., for an "Improvement in apparatus for condensing coal oils."

"I claim the employment of a fan blower, when the same is used to draw the vapors from the retort, in the manner and for the purposes herein set forth. 2nd, and in combination with the fan blower or draft so used, I claim the escape pipe *x* and trap a^1, arranged and operating as herein set forth."

No. 24,562. J. C. Jeffries, of Mount Vernon, Ind., for an "Improved bedstead fastening."

"I claim the construction, use, and application of a bedstead fastening, formed with male and female plates *a*, *a*

g, *g*, Figures 2 and 3, provided with tongues *b*, *b*, *h*, *h*, and hooks *c*, *c*, *i*, *i*, when arranged in combination with a post and rail, substantially in the manner as set forth and described."

No. 24,563. Edwd. C. Knight, of Philadelphia, Pa., for an "Improvement in arranging couches in railroad cars."

"What I claim is, first, the mode of arranging berths, or couches, over backs of railroad car seats, substantially as set forth. Second, I claim the manner of supporting the backs of the seats, by slides E^{11} and rod (F), for the purpose herein shown and described."

No. 24,564. Melvin W. Knox, of Sheridan, N.Y., for an "Improved cross-cut sawing machine."

"I claim, 1st, the arrangement of the several parts of a sawing machine, as herein described, whereby the operator can manage the sawing, elevating, and depressing the saw, and opening and closing the clamp, without changing its position in relation to the machine. 2d, the guides O, and blocks *r*, when arranged in combination with the saw, in the manner specified."

No. 24,565. Isaac W. Lamb, of West Novi, Mich., for an "Improvement in braiding machines."

"I claim, 1st, the combination of the two sets of shuttle carriers K, K, K^1, K^1, rotating in opposite directions in concentric circles, and the shuttle changers N, N^1, having the movements described, the whole operating substantially as herein set forth. 2nd, the construction of the shuttles, each with two openings *r*, *s*, and with a spring dog *u*, entering both openings, to operate in combination with the inclined surfaces and stops of the shuttle carriers and shuttle changers, substantially as and for the purpose described. 3d, the combination with the shuttles of the nippers *v*, *v*, and their several appendages and appliances, by which their bite or friction upon the plaits, are regulated and rendered uniform, substantially as and for the purposes herein described."

No. 24,566. Wm. D. Ludlow, of New York, N. Y., for an "Improvement in preserve cans."

"I claim the described combination of the key D with lugs E, attached in the manner shown to the sides of a cavity (*a*), in the top of the can, in order to prevent the disruption of the said lugs, during the act of closing the can, and avoid projections above or beyond its periphery."

No. 24,567. Wm. H. Maim, of Liverpool, Ohio, for an "Improvement in machine for folding and packing wool."

"What I claim is, the herein-named devices for rolling the fleece into a compact cylindrical form, namely, the combination of the belt G, rod H, hooks I, and pins K, the same being operated by means of the windlass E, and screw S, in the manner and for the purpose specified."

No. 24,568. Gardner Maynard, of Ilion, N. Y., for an "Improvement in cultivator teeth."

"I claim the arrangement of the tooth A, stay C, and wrought iron stem and brace B, when the stem is welded between the wings of the tooth, and made to form a brace, substantially as set forth, the whole being constructed and used in the manner specified."

No. 24,569. Chas. McBurney, of Roxbury, Mass., for an "Improvement in packing for stuffing boxes of pistons."

"What I claim is, a packing for stuffing boxes composed of canvas and india rubber, as set forth, and cut diagonally, as described."

No. 24,570. Saml. Mills and Geo. E. Mills, of New York, N. Y., for an "Improvement in machines for pulverizing minerals."

"What I claim is, a series of circular grooved and roughened metallic plates, working upon their edges side by side in a trough or cylinder, the circle being larger than the plates, which, having an alternating motion in combination with each other and the cylinder, and in connection with the rock shafts and levers for operating the same substantially as described, and for the purposes set forth."

No. 24,571. Thos. Mitchell, of Lansingburgh, N. Y., for an "Improved machine for finishing hair brush handles."

"What I claim is, the rotating cutter wheels D, D, and guards and guides F, in combination with the clamps G, K, provided with patterns H, H^1, arranged substantially as and for the purpose set forth, I also claim centering the unfinished brushes in the clamp G, by means of the bristles *i*, in connection with the strip or plate J, and the inner edge of the pattern H, or its extension H^{11}, substantially as described."

No. 24,572. Marie Heloise Nicolas, and Louise Jesephine Champagne, of Thibodeaux, La., for an "Improvement in defecating sugar juices."

"What we claim is, the employment in the bleaching and defecating of sugar juices of the herein-described combination of sulphur and lime, prepared in the manner substantially as set forth."

No. 24,573. Henry S. North and John O. Couch, of Middletown, Conn., for an "Animal trap."

"What we claim is, 1st, the combination of the many-chambered cylinder A, with the breech pin C, by means of a central counter bore in the said cylinder meeting the chambers *a*, *a*, and a groove or recess *c* all around the end of the breech pin, substantially as herein described, whereby communication is made between the chambers of the cylinder, and all are enabled to be fired at once with a single vent. 2nd, fitting the hammer in the form of a ring, to slide along the exterior of the breech pin C, as herein described. 3rd, the combination with the hammer applied to slide along the exterior of the hollow breech pin of a rod B, sliding through the centre of the cylinder, and within the breech pin, and a spring sear *j*, attached to the said rod, and working through a slot *k*, in the breech pin, substantially as herein described. 4th, the combination with the hammer applied outside of the hollow breech pin of a collar *g*, or its equivalent, applied within the breech pin, and having pins or ears *h*, *h*, projecting through slots *i*, *i*, in the sides of the breech pin behind the hammer, and a helical spring F applied within the breech pin behind the said collar or equivalent, substantially as herein described. 5th, the extension of the central rod B, which carries the sear directly through the cylinder, and through the hollow breech pin, so that it may be operated either by a pull at its front end, or by a push at its rear end, substantially as herein described. 6th, in combination with the many-chambered cylinder A, hollow breech pin C, hammer E, central rod B, sere *j*, and spring F, and collar *g*, as described, we claim the stock D and trigger *p*, applied as described to make a weapon that can be baited and set for shooting game, by the seizure of the bait, or that can be used in the hand, like an ordinary pistol or fire arm, as herein set forth."

No. 24,574. Chas. Peck, of New Haven, Conn,, for an "Improvement in tool-holders for lathes."

"I claim, 1st, the combination of the tool rest *g* with the segment *i*, or their mechanical equivalents, so as to elevate or depress the cutting instrument, when arranged substantially in the manner and for the purpose described. Second, I claim the T-slotted bed plate with the tool rest *g*, connecting the tool posts *d*, *d*, when combined substantially in the manner described, so as to allow the cutting tool to be placed at any required angle horizontally."

No. 24,575. Geo. Race, of Norwich, N. Y., for an "Improved clothes dryer."

"I claim, 1st, the employment of a hollow post enclosing the arms of the reel, in which the arms may be elevated and depressed through its top, in the manner and for the purpose set forth. 2nd, the combination of the sliding head H and the arms D, hinged to said head at their lower extremities, and connected by cords, or other equivalent connection at their upper extremities, substantially as and for the purpose described. 3rd, the combination with the foregoing of the cord and pulleys, the pinion *m*, rack F, and latch *t*, for elevating and securing the head H in the hollow post, when the whole is constructed and operated substantially in the manner set forth."

No. 24,576. Wm. Raymond, of Marlboro', N. H., for an "Improved machine for driving hoops on pails, &c."

"What I claim is, the employment of a driver when either fixed or turning loosely in its bearings, and operated by means of a jointed lever, or otherwise, so as to press against and drive the hoop up on the tub when a rotary motion is given to said tub, as above described."

No. 24,577. Wm. Resor, of Cincinnati, Ohio, for an "Improvement in cooking ranges."

"What I claim is, the peculiar construction of the plate A, B, which constitutes the upper plate of the stove, forming, as it does, the plate of the stove, the arched roof of the

damper chamber, and part of the chimney pipe, in the manner and for the purpose set forth."

No. 24,578. Delos E. Rice, of Detroit, Mich., for an "Improvement in the mode of lifting stamps for crushing ores."

"What I claim is, the application of the folding wedges *c*, *c*, and *w*, in combination with the band *b*, *b*, or their equivalents, substantially as described, thereby producing, as described, a uniform lift of the rods, together with the stamp head."

No. 24,579. Alexr. Rickurt, of Schoharie, N. Y., for an "Improved machine for turning hubs."

"I claim, first, the graduated scale 1, in combination with the index 2, and the sliding frame and hub blank and mandrel operating in connection with the cutters, in the manner and for the purpose described. Second, I am aware that slides or sleeves are in use, and that the making a rotary shaft to balance is not only common but indispensible, when extreme speed is required; and I make no claim to sleeves, nor to balancing the shaft in themseves; but I claim as my invention and improvement the constructing the sliding sleeve with an opening at the angle, so as to slide over and upon the large cutter on the shaft, so as to cut any required size of hub without change of knife, as described. And I claim the constructing the sliding sleeve (or cutter and stock) to pass over and mask the fixed knife on the shaft, in connection and combination with the making one of the sides of the sleeve thicker and heavier than the others, in order to approximate to an equipoise of the shaft. Third, I claim the setting and adjusting (by means of the slot and screw bolt in 19) the arm 18, so as to cut any required length of the hub, and so arranged upon the bar 19 as to allow it to vibrate for the purpose of bringing up the cutters to the hub, or throwing them back when required, and without interfering with the screw or the adjustment of the arm."

No. 24,590. Wm. J. Rivers, of Sumter District, S. E., for an "Improvement in cotton cultivators."

"I claim the handles 1, helve 2, beam 3, foot bar 10, plough 20, harrow 45, roller frame 6, 7, and roller 8, when the whole are arranged for joint operation, as described, for the purposes set forth."

No. 24,591. Chas. B. Sawyer, of Fitchburgh, Mass., for an "Improved apparatus for heating, cooking, and ventilating."

"What I claim is, the combination of the oven O, and range *e*, with the fire pot *d*, fire-flues T, and warm air pipes P, Q, S, substantially as described."

No. 24,582. Philo B. Sheldon, of Prattsburgh, N. Y., assignor to himself and J. T. Upson, of Huron, N. Y., for an "Improved broom clasp."

"What I claim is, the feathers or ribs *g*, *g*, in combination with the screw threads of the shanks *f*, *f*, and with the handle D, constructed as described for the purposes specified. I also claim the combination of the conical screw shanks *f*, *f*, conical screw ferrule *s*, and screw bolts and nuts *m*, *n*, arranged substantially as and for the purpose herein set forth. I also claim the wires B, B, attached to the jaws A, A, and arranged in combination therewith, in the manner and for the purpose described."

No. 24,583. Adon Siddall, of Ransom, Mich., for an "Improvement in corn shellers."

"What I claim is, the arrangement of the stirrup M, with the levers J, J, for operating the adjustable sliding pressure bar H, in the manner described and for the purpose set forth."

No. 24,584. Wm. Skene and Robt. Skene, of Louisville, Ky., for an "Improvement in power pulley press."

"I claim, first, the arrangement of the scroll D, and the conical windlasses E, E^1, to operate in combination with the windlass H, and with the two followers B, B^1, or their equivalents, substantially as and for the purpose herein specified. Second, arranging the scroll D, and the windlasses E, E^1, or their equivalents, on slides C, which are rigidly attached to the upper follower B, so that the weight of those parts assists in increasing the pressure, or the substance placed between the two followers, substantially as described. Third, the arrangement of the two followers B, B^1, with pulleys *k*, k^1, and l^1, l^1, to operate in combination with the scroll D, the cone windlasses E, E^1, and the ropes *d*, and *e*, e^1, substantially as and for the purpose."

No. 24,585. Wm. Skene and Robt. Skene, of Louisville, Ky., for an "Improvement in power-gear press."

"I claim the arrangement of the windlasses J, the weight L, the scroll I, and the pinion H, to operate in combination with the cog wheel G, the pinions E and E^1, the double rack D, and the follower B, substantially as and for the purpose specified."

No. 24,586. M. D. Snyder and S. A. Snyder, of Clarendon, N. Y., for an "Improved carpet fastener."

"We claim an improved carpet hook, consisting of the barbed shank *a*, gauge notch *d*, throat *c*, and rectangular clinching hook *b*, all constructed and combined, substantially in the manner and for the purposes herein shown and described."

No. 24,587. John L. Stewart, of East Boston, Mass., for an "Improvement in retorts for distillation of coal."

"What I claim is, my improved revolving web retort, constructed not only with its induction and eduction openings, arranged at or near one end of it, but with an endless or other proper carrier, made so as to operate to receive the coal or matter to be distilled from or near one end of the retort, and carry or force the same toward the opposite end thereof, and from thence backward toward the front end, and there discharge such, the same causing the coal or matter to be distilled to pass twice through the retort, or carbonizing chamber, in manner and for securing advantages as specified. And, furthermore, I claim, in combination with the retort, or its discharging mouth, a water sealing trough, and an endless carrier, to operate in such trough, substantially as specified, to receive or carry away from the retort the discharged coke or products, the water of the trough, under such application of it to the discharging mouth, serving to furnish vapour or steam to the retort, in manner and to effect an advantage in the distillation of the coal, or matter therein, as specified."

No. 24,588. J. C. Stoddard, of Worcester, Mass., for an "Improvement in machines for making hay."

"What I claim is, arranging the rakes in radial slots between the two drum heads K, and fixing them therein, so as to serve the purpose of a hay making, and by a simple change, a hay raking machine, substantially in the manner herein set forth."

No. 24,589. Joseph Souter, of Chicago, Ill., for an "Improvement in apparatus for drying grain."

"I claim the drying of grain by means of heated air within a vertical cylindrical chamber, which is provided with a series of tapering rims *r*, and a central shaft *y*, which is armed with a series of winged scattering wheels *w*, when a fan or some other equivalent means is employed for producing an upward current of heated air through the said chamber, in the manner herein set forth."

No. 24,590. George S. G. Spence, of Boston, Mass, for an "Improved apparatus for heating buildings."

"I claim the arrangement of the elevated sides of the boiler, in combination with the pipe H, or its equivalent, depressed within the same, for heating and distributing the air in the manner and for the purpose set forth."

No. 24,591. A. G. Stipher, of Richmond, Ind., for an "Improvement in harvesting machines."

"What I claim is, 1st, the employment or use of the tilting spring raker (D), in combination with the sliding raker frame (*d*), constructed and arranged substantially as and for the purposes set forth. 2nd, operating the raker frame (*d*) and raker (D) by means of the reciprocating bar (F, F^1), through the medium of the rack (F^{11}), cog wheel (*j*), pulley g^1 and cord (g^{11}), all being arranged substantially as and for the purposes set forth. 3rd, in combination with the raker (D) the sliding trap doors (E), operated by means of the bent levers (G), springs (*k*), and cams (*b*), substantially as and for the purposes set forth."

No. 24,592. A. H. Tait, of New York, N.Y., assignor to Geo. B. Hartson, of same place, for an "Improvement in defecating sugar juices."

"What I claim is, the employment of the sulphate of tin, applied in manner substantially as herein described, for defecating cane juice and sirups, as set forth."

No. 24,593. Richd. P. Thomas, of Syracuse, N.Y., for an "Improvement in frames for manufacture of soap."

"What I claim is, lining soap frames in ordinary use with flexible metallic plates, substantially in the manner and for the purpose set forth."

No. 24,594. Calvin G. Udell, of Morris, Ill., for an "Improvement in corn planters."

"What I claim is, 1st, the arrangement of the grain box A, tubes B, B, connecting bars E, E, and legs I, I, the whole being constructed and operated substantially in the manner and for the purpose set forth. 2nd, in combination with the above, I claim the measure L, L, marking rod M, and guide K, the whole being constructed and operated substantially in the manner and for the purpose set forth."

No. 24,595. Thos. F. Wagoner, of Trenton, N. J., for an "Improvement in machines for hulling and scouring grain."

"What I claim is, the combination of two surfaces, one of which is elastic and the other hard, when the planes of said surfaces are placed on a plane with the horizon, and one of them having a circular motion, for the purpose of hulling and scouring grain, substantially as set forth."

No. 24,596. H. L. Watts, of Chester, Mass., for an "Improved horse-shoe machine."

"I claim the arrangement and combination of the slotted carriage B, the die C, the followers I, as the rollers J, as and for the purpose herein shown and described."

No. 24,597. John Young, of Joliet, Ill., for an "Improvement in rotary cultivators."

"What I claim is, the arrangement and combination of a skeleton or open rotary flowing cylinder, when the mould boards thereof are set tangential, and extend from end to end of the cylinder, in a straight or oblique direction, in combination with a rotary shaft or circular edged disks, the whole being operated substantially as and for the purposes set forth."

No. 24,598. McClintock Young, jr., of Frederick, Md., for an "Improvement in harvesting machines."

"What I claim is, combining the handles (S) of the rake (C), with the shaft (R), by means of the supporter *c*, the shaft arms *g*, *g*, the crank *e*, the pitman *h*, and the pitman *i*, and in such a manner that the rotation of said shaft will steadily and positively impart the desired movements to the rake, substantially as herein set forth. I also claim the combination of the cams D, D^1, and the guides *a*, *b*, or either of them, with the above-described mechanism for operating the rake, constructed and arranged in the manner and for the purpose substantially as described."

No. 24,599. Edmund B. Cherevy, of New York N.Y., assignor to himself and Thos. W. Weathered, of same place, for an "Improvement in furnaces."

"What I claim is, the hollow dome *k* over the fire in combination with the dome *h*, in the manner and for the purposes specified, whereby the heat ascends into said dome *k*, and then passes away between the domes *h* and *k*, heating the circulating water as specified. I also claim the thimbles *o*, *o*, passing through the flanges 2 and 3, and forming openings for the circulating water substantially as specified."

No. 24,600. Saml. Clark, of New York, N.Y., assignor to Wm. Oland Bourne, of same place, for an "Improved mode of imparting momentum motion to a sifting apparatus."

"I claim, first, the imparting a short, quick, or jarring motion to a sifting apparatus or machinery of any kind, where such motion is desirable, by means of an oscillating, vibrating, or reciprocating weight, brought at the end of its motion into contact with the said apparatus or its attachments, the same being arranged and constructed in the manner above described at *d*, *e*, *f*, *h* and *i*, or its equivalent. Second, suspending the object to which the motion is applied by means of a suspending or supporting link or rod, with concave bearing parts uppermost at both ends, and convex bearing parts undermost, constructed as above set forth at *l*, *m*, *n*, *k*, and *r*, or in an equivalent manner."

No. 24,601. Daniel Foreman, of Navarre, Ohio, assignor to himself, G. W. Sweringen, and Jonathan Penoyer, of same place, for an "Improvement in seeding machines."

"I claim the arrangement and combination with the interior of the peculiarly formed hollow slide E, of the adjustable plate (*i*), substantially as and for the purposes herein shown and described."

No. 24,602. Wm. H. Gray, of Dover, N.H., assignor to himself, and Luther Robinson, of Melrose, Mass., for an "Improvement in let-off motion for looms."

"What I claim, is, 1st, combining the clutch *h*, *h*, *i*, *i*, or its equivalent, by which motion is imparted to the let-off mechanism, with the yarn beam, by means of a worm gear *d*, on the yarn beam, and an endless screw *e*, and spring *g*, applied substantially as described to the shaft E, which controls the rotation of the beam, and operating as set forth. 2nd, in combination with the worm gear *d*, endless screw *e*, and spring *g*, applied as described, I claim the lever H, applied between the said spring and the surface of the yarn on the beam, and operating substantially as herein specified."

No. 24,603. Levi C. Johnson, of Buffalo, N.Y., assignor to himself, and Josiah B. Smith, of same place, for an "Improved portable door fastener."

"I claim the sliding bar D, (including the plate F), when so constructed as to form the slot H, and so connected and arranged with the plates A and A^1, and bolt B, as that when placed in the door for use, the bar D will stand at right angles with the bolt B, and when folded for carrying in the pocket the plate F will cover the teeth or spurs of plate A, substantially as herein described."

No. 24,604. Ebenezer G. Pomroy, of New York, N.Y., assignor to Julius R. Pomeroy, of Brooklyn, N.Y., for an "Improvement in method of protecting iron from oxidation."

"What I claim, is, the preparation of iron, by corroding or oxydizing its surface for the express purpose of making the same rough, and capable of being closely and firmly united with a covering of fire proof paint by means of rolling or other mechanical force, and the application of the other processes above described, to iron so prepared, in combination therewith."

No. 24,605. Austin Potter, of Williamson, N. Y., assignor to himself and Joel W. Norton, of same place, for an "Improvement in grain separators."

"I claim the application of the adjustable slide board D to the endless riddle F in such a manner that the grain and straw can be made to impinge upon the end or more open meshes of the same, or upon the top, thereby varying and adapting the action to the quality of grain and straw, and employing the force with which it leaves the cylinder as a means of separating the two, substantially as and for the purposes described. I also claim the combination and arrangement of the parts, consisting of the fan H, self-vibrating riddle E, with pulleys *u*, *x*, driven directly from cylinder B, elongated shaker and board R, G, and intermediate adjustable slide board D, operating conjointly, substantially as described, to form a more portable, cheap, and effective separating attachment to threshing machines, as set forth."

No. 24,606. Chas. A. Stebbins, of Boston, Mass., assignor to himself and Reuben J. Todd, of same place, for an "Improvement in apparatus for oiling cylinders and the pistons of steam engines."

"I claim the combination of the lifter *f* and tubular holder *h* (or their equivalent or equivalents) with the valve *b* and the piston C, the whole being constructed and applied together and to a reservoir A, and its pump barrel B, substantially in manner and to operate, as specified."

Re-issues.

Joseph Kingsland, jr., of Franklin, N. J., for an "Improvement in the process of grinding paper pulp."—Patented 23rd December, 1856.—Re-issued 28th June, 1859.

"What I claim is, the process, substantially as herein described, of reducing fibrous substances to pulp suitable for making paper, while such fibrous substances are suspended in water, by subjecting them to the operation of grinding or

beating action in a closed vessel, to which it is supplied by the hydraulic power of a discending column of water so charged with the fibrous substance, and permitting it to escape and be discharged so soon as it is sufficiently reduced, substantially as set forth. And I also claim separating the fibres from the mass so soon as they are sufficiently reduced, and discharging them by the hydrostatic pressure of the column of water in which the fibres are suspended, and which in flowing upward to the discharge carries with it only the fibres which are sufficiently reduced, substantially as described."

JOSEPH KINGSLAND, jr., of Franklin, N. J., for an "Improvement in machinery for grinding paper pulp."—Patented 16th December, 1856.—Re-issued 28th June, 1859.

"What I claim is, the combination of the rotating grinder with and enclosed in a surrounding case, which constitutes the opposing grinding surface, and which is provided with a feeding pipe and discharge aperture, suitable for feeding or carrying the fibrous substances to and from the grinder in the enclosed vessel by the hydraulic pressure of a descending column of water, as set forth."

JOSEPH W. JAYNE, of Sandusky, Ohio, for an "Improvement in brick machines."—Patented 5th May, 1857.—Re-issued 28th June, 1859.

"What I claim is, 1st, the yoke, constructed of the form above described, by which the converging planes are held firmly in the same position relative to each other, whether the same be composed of one or more pieces of metal. 2nd, the radial, sliding, and revolving chargers, in combination with the mould wheel. 3rd, the arrangement of the guide stem on the side of the pressers instead of on the end whereby I am enabled to place the pressing roller in the cavity of the piston. 4th, what I claim is, making the piston or presser hollow, and inserting the pressing roller in the cavity thereof instead of placing it upon a guide stem, as heretofore done."

HENRY JENKINS, of Brooklyn, N. Y., for an "Improvement in the process of manufacturing wire grating, &c."—Patented 6th March, 1847.—Re-issued 28th June, 1859.

"What I claim is, manufacturing screens or other articles from metallic wires or bars that are bent or crinkled at the point of intersection previously to being laid or woven up, whereby I am enabled to form meshes of any desired size or shape by such intersecting bars or wires, so that they shall be rigid and durable, as set forth; and this I claim, irrespective of the mechanism for bending or crinkling said wires or interweaving them to form the requisite meshes."

MINER VAN ANKEN, of Saratoga Springs, N. Y., for an "Improved washing machine."—Patented 11th May, 1858.—Re-issued 28th June, 1859.

"I claim, 1st, providing a stop board at the lower portion of the rear end of the rubber, substantially as and for the purposes set forth. 2nd, providing an oblong slot, the lower termination of which is of scroll form, in each of the pendulous arms of the rubber, substantially as and for the purposes set forth. 3rd, the combination with said slot of a back trip board, substantially as and for the purposes set forth."

JOHN AMES, of Lansingburgh, N. Y., assignor of Thomas Mitchell, of same place, for an "Improved machine for finishing brush handles."—Patented 23rd June, 1857.—Re-issued 28th June, 1859.

"I claim, 1st, the combination of the crown wheel saw O, with the adjustable platform Y, Y, and stop *g*, substantially as and for the purpose set forth. 2nd, the wheel K, provided with the oblique cutters *y*, in combination with the guard or gauge piece L, the cutter wheel and gauge piece being arranged relatively with each other, substantially as and for the purpose set forth. 3rd, the arrangement and combination of mechanical devices herein set forth and described, to wit, the platform D, with revolving cutters shaped and operating as described, crown saw O, with the arms *d*, *d* and the adjustable platform and cutter wheels K and M, with their cutters, substantially as described."

WM. HOPPER and ROBERT H. GRATZ, of Philadelphia, Pa., assignees of Chas. C. Lloyd, of same place, for an "Improvement in valves for dry gas meters."—Patented 22nd June, 1858.—Re-issued 28th June, 1859.

"We claim, 1st, the construction of the rotary valve *c*, *c*, with series of breaks or edge as at *f*, *p*, *p*, and *q*, *q*, arranged and operating so as to scrape the upper surface of the valve seat. 2nd, the drip K, and valve seat *q*, *q*, arranged and operating so as to collect and carry off any liquid deposit in the meter. 3rd, the valve carriage D, D, arranged and operating substantially as above described. 4th, the combination of the valve *c*, *c*, the valve seat *g*, *g*, the shafts E, E, E, attached to the diaphragms arranged and operating as above described, for the purpose of restraining a reverse movement in the meter and thus dispensing with the click and ratchet."

H. B. MASSER, of Sunbury, Pa., for an "Improvement in ice cream freezers."—Patented 12th December, 1848.—Re-issued 1st January, 1850.—Again re-issued 28th June, 1859.

"I claim a scraper or scrapers which act or bind during the process of freezing cream with a yielding spring force against the inner surface or surfaces of the cream chamber, substantially as and for the purposes set forth."

DESIGN.

P. J. CLARK, of West Meriden, Conn., assignor to S. S. Clark, of same place, for a "Design for match boxes."

"I claim the configuration of the bases or lower terminals C, the same being in the form of a scolloped shell, and constituting a new and ornamental device for a match safe."

ADDITIONAL IMPROVEMENT.

AUGUSTUS B. DAVIS, of Philadelphia, Pa., for an "Improvement in railroad car springs."—Patented 15th February, 1859.—Additional Improvement dated 28th June, 1859.

"I claim the bore A and cover plate C, secured together by a bolt D, or other suitable fastening, in combination with one or more loose plates H, placed within the box, so as to divide the latter into two or more compartments, as and for the purpose herein set forth."

EXTENSION.

EPHRAIM MORRIS, of New York, N.Y., for an "Improvement in machines for raising and lowering weights."—Patented 5th July, 1845.

"I claim the manner of combining the barrel disks *f*, *f*, with the wheel *c*, for the purpose of hoisting, lowering, or suspending weights by means of the ribs and grooves, or any analogous device; and I claim the further combination therewith of the means employed to govern and regulate the action of said parts, namely, the friction bands *g* or g^1, and levers *h* or h^1, the attaching and detaching lever *l* or l^1, rolling shaft and bit 4 or 4^1, pin 3 or 3^1, and slide key 2 or 2^1, substantially as such manner and combination are shewn and set forth, irrespective of the power employed to work the machinery, and also irrespective of the mode by which power is connected to the working parts."

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Notices to Proceed.

NOTICE is hereby given, that

588. RICHARD LEAKE and MATTHEW SYKES, both of Barnsley, in the county of York, have given notice at the office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in furnaces for consuming smoke and generating heat, part of which improvements are applicable to furnaces generally."

As set forth in their petition, recorded in the said office on the 5th day of March, 1859.

595. And JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in evaporating in vacuo."

As set forth in his petition, recorded in the said office on the 7th day of March, 1859.

601. And ADAM BOOTH, the elder, and ADAM BOOTH, the younger, of the city of Manchester, in the county of Lancaster, Machine Makers, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for making or manufacturing tags for laces."

605. And JOHN NORTHCOTE RYDER, of Bexley Heath, in the county of Kent, has given the like notice in respect of the invention of "Improvements in preserving fruits, and in apparatus used for such purposes."

As set forth in their respective petitions, both recorded in the said office on the 8th day of March, 1859.

612. And JOHN ROBINSON NICHOLSON, of Redditch, in the county of Worcester, Doctor of Medicine, has given the like notice in respect of the invention of "New or improved machinery to be used in the manufacture of needles, a part or parts of which said machinery may also be used for pointing pins and other like articles."

616. And JOHN COOKE, of Cheltenham, in the county of Gloucester, has given the like notice in respect of the invention of "Improvements in apparatus for giving signals on railways and vessels, and other such like uses."

As set forth in their respective petitions, both recorded in the said office on the 9th day of March, 1859.

626. And ROBERT HELLARD, Ironmonger, Taunton, Somerset, has given the like notice in respect of the invention of "Improvements in reaping and mowing machines."

627. And SAMUEL WHEATCROFT, of Brudenell Place, New North Road, county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of goffering and rouching machines, in order to render them self-registering and self-indicating."

629. And FREDERICK CLARKE, of Norland Square, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improved mode of, and apparatus for, cutting, drying, and preparing peat to be used as fuel, or for other purposes for which it may be usefully employed."

As set forth in their respective petitions, all recorded in the said office on the 11th day of March, 1859.

631. And JOHN CUNLIFFE and FREDERICK PIGGOTT, both of the city of Manchester, Manufacturers, and GEORGE MALLINSON, of Salford, in the county of Lancaster, Pattern Designer, have given the like notice in respect of the invention of "Improvement in the manufacture of ornamental woven fabrics."

636. And JAMES THORNTON, of Liverpool, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in machinery for the manufacture of bricks, tiles, and other similar articles."

As set forth in their respective petitions, both recorded in the said office on the 12th day of March, 1859.

640. And Richard Waller, of No. 50, Baker Street, Portman Square, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in joining leather, flexible and textile materials for the production of boots and shoes, and articles of the like description, and harness, strapping, bags, sails, tent covers, portmanteaus, and such other articles, together with machinery and apparatus for that purpose."

648. And John Samuel Dawes, of Smethwick House, near Birmingham, Gentleman, has given the like notice in respect of the invention of "A new or improved method or combination of arrangements for the better securing and collecting of night soil or town manure, and rendering it more valuable for agricultural purposes."

As set forth in their respective petitions, both recorded in the said office on the 14th day of March, 1859.

649. And Walter Langton, of 14, Wharf, Belvedere Road, Lambeth, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the manufacture of keys and wood fastenings used in constructing railways."

650. And Charles Desurmont, of Seclin, France, Gentleman, and Charles Goudeau, of Alost, Belgium, Mechanical Engineer, have given the like notice in respect of the invention of "Certain improvements in looms for weaving."

As set forth in their respective petitions, both recorded in the said office on the 15th day of March, 1859.

663. And James Fuller, of Reading, in the county of Berks, Turner, has given the like notice in respect of the invention of "Improvements in churns."

As set forth in his petition, recorded in the said office on the 16th day of March, 1859.

673. And Charles Garnett, of the firm of Peter and Charles Garnett, of Cleckheaton, in the county of York, Machine Makers, has given the like notice in respect of the invention of "Improvements in machinery for ginning cotton and for cleaning cotton and certain other fibrous materials."

681. And Arthur Warner, of 31, Threadneedle Street, in the city of London, and William Henry Tooth, of Sumner Street, Southwark, in the county of Surrey, have given the like notice in respect of the invention of "Improvements in the manufacture of iron."

As set forth in their respective petitions, both recorded in the said office on the 17th day of March, 1859.

700. And John Walter Hart, of 60, St. Mary Axe, in the city of London, Gentleman, has given the like notice in respect of the invention of "An apparatus for the destruction of flies and other insects."—A communication from abroad by Frederick Barnett, residing at Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 19th day of March, 1859.

709. And William Hudson, of Burnley, in the county of Lancaster, Machinist, and Christopher Catlow, of the same place, Overlooker, have given the like notice in respect of the invention of "Certain improvements in looms for weaving."

As set forth in their petition, recorded in the said office on the 21st day of March, 1859.

733. And Charles A. Watkins, of the firm of Hamilton and Co., Brush Manufacturers, of Greek Street, Soho Square, has given the like notice in respect of the invention of "Improvements in the manufacture of brushes."

As set forth in his petition, recorded in the said office on the 22nd day of March, 1859.

754. And Hugh Rigby, of Salford, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for obtaining motive power applicable to hoists and all other purposes to which motive power can be applied."

758. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in ovens for baking bread and other substances."—A communication from abroad by Thomas Russell, of New York.

As set forth in their respective petitions, both recorded in the said office on the 25th day of March, 1859.

789. And Henry Moss, of 62, Brill Row, Somer's Town, in the county of Middlesex, Boot and Shoe Manufacturer, and Thomas West, of 5, Jewin Street, in the city of London, Machinist, have given the like notice in respect of the invention of "A machine for the cutting of leather for every purpose, and cutting cloths, linen, and other fabrics and materials."

As set forth in their petition, recorded in the said office on the 29th day of March, 1859.

812. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the construction of steam boiler and other furnaces."—A communication from abroad by Jonathan Amory, of Boston, in the United States of America.

As set forth in his petition, recorded in the said office on the 31st day of March, 1859.

830. And Arthur Paget, of Loughborough, in the county of Leicester, Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for the manufacture of looped fabrics, and in the manner of constructing the same."

As set forth in his petition, recorded in the said office on the 2nd day of April, 1859.

893. And John Martin, of No. 4, Buckingham Street, Islington, in the county of Middlesex, Manufacturer, has given the like notice in respect of the invention of "Improvements in the materials used in the manufacture of bonnet fronts and ruches."

As set forth in his petition, recorded in the said office on the 9th day of April, 1859.

911. And David Doig, of the city of Manchester, Engineer, has given the like notice in respect of

the invention of "Improvements in the construction of gas lamps."—A communication from abroad by William Gilbert Ginty, of Rio de Janeiro, in the empire of Brazil.

As set forth in his petition, recorded in the said office on the 12th day of April, 1859.

1014. And CHARLOTTE MANSEL, of Plymouth, in the county of Devon, has given the like notice in respect of the invention of "A folding travelling case."

As set forth in her petition, recorded in the said office on the 23rd day of April, 1859.

1086. And JAMES MORRISON, senior, and JAMES MORRISON, junior, of Paisley, in the county of Renfrew, North Britain, Machine Makers, have given the like notice in respect of the invention of "Improvements in looms and in apparatus connected therewith."

As set forth in their petition, recorded in the said office on the 30th day of April, 1859.

1142. And THOMAS JONES, of Liverpool, in the county of Lancaster, Slater and Plasterer, has given the like notice in respect of the invention of "An improved apparatus and arrangement of flues for heating and ventilating buildings, ships, and other structures, and for causing draughts in chimnies."

As set forth in his petition, recorded in the said office on the 6th day of May, 1859.

1243. And HENRY NEWMAN, of Liverpool, in the county of Lancaster, Dentist, has given the like notice in respect of the invention of "Improvements in the construction of artificial teeth, and in the mode or manner of affixing the same to the frame."

As set forth in his petition, recorded in the said office on the 20th day of May, 1859.

1287. And JAMES HARMER, of St. James Street, Lower Road, Islington, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in parts of dry gas meters."—Partly a communication from abroad by William Sinderby, of Boston, Massachusets, in the United States of America.

As set forth in his petition, recorded in the said office on the 25th day of May, 1859.

1320. And WILLIAM HENRY GRAVELEY, of Upper East Smithfield, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in apparatuses for purifying and aërating sea water, parts of which may be employed for cooking and baking purposes."

As set forth in his petition, recorded in the said office on the 28th day of May, 1859.

1347. And ALFRED SUTER, of 65, Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "A furniture castor, to be used upon the feet of tables, seats, and all descriptions of furniture, or other things."

As set forth in his petition, recorded in the said office on the 31st day of May, 1859.

1387. And PETER SALMON, of Glasgow, in the county of Lanark, Merchant, has given the like notice in respect of the invention of "Improvements in valves for pumps and other uses."

As set forth in his petition, recorded in the said office on the 7th day of June, 1859.

1480. And RICHARD LAMING, of Hampstead, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in purifying gas, and in obtaining and reproducing materials useful for that purpose."

As set forth in his petition, recorded in the said office on the 20th day of June, 1859.

1493. And ALEXANDER PARKES, of Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Improvements in the manufacture of cylinders and tubes of copper, and alloys of copper."

1494. And LEMUEL DOW OWEN, of No. 192, Tottenham Court Road, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for manufacturing bolts and nails."—A communication from foreigners residing abroad, videlicet, by Messieurs Buck and Company, Engineers, of Lebanon, New Hampshire, in the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 21st day of June, 1859.

1541. And JOHN MARIE JOSEPH BAILLIE, of No. 15, St. Mary Axe, in the city of London, has given the like notice in respect of the invention of "A new process for tanning hides and skins."—A communication from Monsieur A. Paulmier, resident at Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 28th day of June, 1859.

1584. And HERMANN HIRSCH, of Berlin, in the kingdom of Prussia, has given the like notice in respect of the invention of "Improvements in screw propellers."

As set forth in his petition, recorded in the said office on the 2nd day of July, 1859.

1587. And JAMES HOLLINGWORTH, of the Clyde Paper Mills, Eastfield, in the county of Lanark, North Britain, Manager, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for the manufacture of paper."

As set forth in his petition, recorded in the said office on the 4th day of July, 1859.

1605. And SAMUEL BURTON HASKARD, of Wollaton Street, in the town and county of the town of Nottingham, Spring Point and Guide Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of hook guides used in machines for the making of lace or other fabrics."

As set forth in his petition, recorded in the said office on the 6th day of July, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

19th July, 1859.

161. Thomas Clarke, of Litchurch Lane, near Derby, in the county of Derby, and of Staveley, in the county of Derby, Moulder, for an invention of "Improvements in the manufacture of core barrels for pipes or columns, used either for railway piles or columns, or for water pipes or sewerage pipes."—Dated 19th January, 1859.

163. James Whitehead, of Halifax, in the county of York, Wire Manufacturer, for an invention of "Improvements in the means or machinery for the manufacture of 'purled wire.'"—Dated 19th January, 1859.

179. Joseph Bent, of Newhall Street, Birmingham, in the county of Warwick, Military Ornament Manufacturer, for the invention of "Certain improvements in clasps or fastenings applicable for belts, garters, and other purposes."—Dated 20th January, 1859.

185. Louis Le Prince, of No. 261, Regent Street, in the county of Middlesex, Bootmaker, for an invention of "The improvement of ladies' boots and shoes, called the caméleon boot and the caméleon shoe.'—Dated 21st January, 1859.

194. James Hill Hume, of Broughty Ferry, in the county of Forfar, North Britain, Baker, for an invention of "Improvements in warming apparatus for the feet." — Dated 21st January, 1859.

197. James Newman, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in the manufacture of chains." —Dated 21st January, 1859.

206. Thomas Webster Rammell, of No. 16, Spring Gardens, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in atmospheric propulsion, and the structures, tubes, machinery, and apparatus applicable thereto."—Dated 22nd January, 1859.

208. Richard Barter, of St. Ann's Hill, Blarney, in the county of Cork, Doctor of Medicine, for an invention of "Improvements in heating and ventilating buildings, and in apparatus connected therewith."—Dated 22nd January, 1859.

216. John Fowler, junior, of Cornhill, Robert Burton, of Kingsland, in the county of Middlesex, David Greig, of New Cross, in the county of Kent, and Jeremiah Head, of Newcastle-on-Tyne, for an invention of "Improvements in agricultural implements, and in apparatus used for hauling agricultural implements by steam power." —Dated 24th January, 1859.

276. James Robertson, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in details by which motive force is transmitted in machinery."—Dated 31st January, 1859.

281. Laurent Rigolier, Engineer, residing at Lyon Place, Grolier, 5, Rhône, in the empire of France, for an invention of "A new brake for railway carriages."—Dated 1st February, 1859.

328. John Honeyman, of Glasgow, in the county of Lanark, North Britain, Miller, for an invention of "Improvements in the construction of ships, vessels, and boats, and in propellers for propelling the same."—Dated 4th February, 1859.

432. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in the construction of brushes."—A communication from abroad by Ira W. Shaler, of the United States of America.—Dated 16th February, 1859.

926. Richard Coleman, of Chelmsford, in the county of Essex, Agricultural Implement Manufacturer, for an invention of "Improvements in agricultural implements." — Dated 13th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 16th July*, 1859, *inclusive.*)

14th July.

1683. John Cartwright, of Shrewsbury, in the county of Salop, Agricultural Implement Manufacturer, for an invention of "Improvements in agricultural implements called chain harrows for more effectually dressing and cleaning land."—Dated 17th July, 1856.

15th July.

1684. The Reverend George Jacque, of Auchterarder, in the county of Perth, North Britain, Clerk, for an invention of "Improvements in the construction of stringed musical instruments." —Dated 17th July, 1856.

1701. James Lawrence Crockett, of West Ham, in the county of Essex, Manufacturer, for an invention of "Improvements in evaporation."—A communication.—Dated 19th July, 1856.

1705. James Lawrence Crockett, of West Ham, in the county of Essex, Manufacturer, for an invention of "Improvements in the manufacture of sulphuric acid.'—A communication.—Dated 19th July, 1856.

16th July.

1674. Thomas Duncan, of Liverpool, in the county of Lancaster, Civil Engineer, for an invention of "A combined and compound engine for applying motive power and for measuring fluids."—Dated 16th July, 1856.

1758. George Collier and John Crossley, both of Halifax, in the county of York, and James William Crossley, of Brighouse, in the parish of Halifax, and in the same county, for an invention of "Improvements in finishing and stretching woven fabrics."—Dated 24th July, 1856.

FOREIGN PATENTS.



SAXONY.†

List of Patents for Inventions Delivered between the 1st April and 30th June, 1859.‡

(*Communicated by the Saxon Government.*)

(For preceding List, the No. 554 of this Journal.)

1. Ferdinand Röhle, of Dresden, for "A stereotype process for casting all kinds of metal type."—5 years.—Dated 30th March, 1859.
2. Richard Hartmann, of Chemnitz, for "Machines and apparatus for the manufacture of screws."—5 years.—Dated 2nd April, 1859.
3. Richard Hartmann, of Chemnitz, for "A double head stock lathe for simultaneously turning two fly-cones, or generally by means of two rotary curved surfaces."—5 years.—Dated 2nd April, 1859.
4. Märgel, Brothers, and Brückner, at Grossenhain, for "A texture called 'worsted.'"—(Public.) —5 years.—Dated 2nd April, 1859.
5. Hermann Böhme, of Dresden, agent for Joseph K. Kilbourn and Edward E. Kilbourn, of Norfolk, U. S., for "A power-loom for making stockings." —5 years.—Dated 2nd April, 1859.
6. Schulze and Niemann, of Leipzig, for "Manufacture of wrapping paper by means of a combination of linen, cotton, and other tissues, with paper produced by machinery, and impregnating the product with varnish."—5 years.—Dated 2nd April, 1859.
7. Hermann Böhme, of Dresden, Agent for Eduard Schmidt, of Vienna, for "A machine for winding up sewing thread."—5 years.—Dated 2nd April, 1859.
8. Friedrich Georg Wieck, agent for Sulzberger-Pfister, of Frauenfeld, Switzerland, for "A folding and stitching machine."—Dated 4th April, 1859.
9. Friedrich Wilhelm Müller, of Dresden, for "A closet."—5 years.—Dated 5th April, 1859.
10. Wünterling, of Leipzig, for "An apparatus for rasping hard substances."—5 years.—Dated 9th April, 1859.
11. Peter Mich. Pannes, of Cologne, for "An apparatus for heating boilers."—5 years.—Dated 11th April, 1859.
12. Friedrich Georg Wieck, of Leipzig, agent for Winshurst and Truemann, of London, for "A process and machine for making metal sheets and foil metal."—5 years.—Dated 12th April, 1859.
13. Carl Beermann, of Berlin, for "Improvements in sewing machines."—5 years.—Dated 14th April, 1859.
14. J. H. F. Prillwitz, of Berlin, Agent for John Eason, of London, for "Improvements in apparatus and means for tanning, dyeing, and for extracting vegetable, animal, and mineral substances." —5 years.—Dated 16th April, 1859.
15. J. H. F. Prillwitz, of Berlin, Agent for Joseph Martin, Hegmann, and Co., of Lyons, for "A new mode of treating vegetable dyeing substances, and especially orchal, and applying the same to dyeing silk and wool."—5 years.—Dated 16th April, 1859.
16. J. H. F. Prillwitz, of Berlin, Agent for Hippolyte Monier, of Paris, for "Improvements in gas burners."—5 years.—Dated 16th April, 1859.
17. August Leonhardi, of Dresden, for "A liquid extract of ink."—5 years.—Dated 19th April, 1859.
18. Augustinus Uhlig, of Chemnitz, for "Improvements in the construction of pianofortes."—5 years.—Dated 19th April, 1859.
19. A. Münich and Co., of Chemnitz, for "Improvements in machines for drying wool and other downy fibrous substances, and self-regulating cylinder employed thereat."—5 years.—Dated 29th April, 1859.
20. Gustav Adolph Buchholz, of Berlin, for "Improvements in machines for husking corn rice and other husky fruits."—5 years.—Dated 3rd May, 1859.
21. Anton Joseph Asbach, of Chemnitz, for "A process for making wire malt-kilns."—5 years.—Dated 19th May, 1859.
22. Gustav Hoyer, of Schandau, for "A process for obtaining salt stones for cattle."—5 years.—Dated 19th May, 1859.
23. Friedrich Gäns, of Berlin, for "A process for manufacturing sulphuric acid and sulphur from gypsum."—5 years.—Dated 25th May, 1859.
24. Franz R. Böhme, of Leipzig, for "A new efficient and economical stone for mean, pure and cheap fuel."—5 years.—Dated 31st May, 1859.
25. Carl Wilhelm Muth, of Pieschen, for "A contrivance in furniture with four legs for rendering the same stable on uneven soil."—5 years.—Dated 3rd June, 1859.
26. Wieck, of Leipzig, Agent for Charles Dorn, of Stuttgart, for "Construction of kilns for firing porcelain, earthenware, and all kinds of pottery and bricks.—5 years.—Dated 6th June, 1859.
27. Hermann Böhme, of Dresden, Agent for Reynard de Frets, of Marseille, for "A substance for blasting rocks in mines, quarries, &c."—5 years.—Dated 14th June, 1859.
28. Hermann Böhme, of Dresden, Agent for Messrs. Lefèbre, of Paris, for "Apparatus for manufacturing nitric acid, and for obtaining artificial mines of saltpetre by utilizing the known action of

† For the Saxon Patent Law, see No. 236 of this Journal.
‡ All the published Specifications are deposited in the free Library of the Commissioners of Patents, where translations of the same may be had.

the electric spark on the oxygen and azote."—5 years."—Dated 15th June, 1859.

29. Johann Friedrich Vetter, of Werdan, for "A machine for cleaning the waste of cotton and wool."—5 years.—Dated 17th June, 1859.

30. T. Fanter, of Berlin, for "A combined veneer-cutting and planing machine."—5 years.—Dated 17th June, 1859.

31. J. H. F. Prillwitz, of Berlin, Agent for Henry Burden, of Troy (U. S.), for "A machine for making horse-shoes." — 5 years. — Dated 18th June, 1859.

32. Hermann Böhme, of Dresden, Agent for François Vouillon and Achille Tranquille Mercier, of Louviers, for "Obtaining thread, cloth, and other substances from fibrous substances without spinning."—5 years.—Dated 23rd June, 1859.

COLONIAL PATENT LAW.

INDIA.

Act No. XV. of 1859.

An Act for granting exclusive privileges to Inventors. (*See No. 552 of this Journal.*)

The above Act, passed by the Legislative Council, received the assent of the Right Honourable the Governor General on the 17th May, 1859, and was on the 21st of the same month promulgated for general information.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
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Belgium, Nos. 292 and 348.
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France, No. 228.
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Germany, No. 435.
Hanover, No. 231.
India, Nos. 240, 348, and 552.
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Netherlands, No. 289.
New South Wales, No. 380
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Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 527 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

List of Specifications published during the week ending 16th July, 1859.

No.	Price.	Subject-Matter.
2556	7*d.*	Supplying air and steam to furnaces or fire boxes.
2771	8*d.*	Manufacture of sugar.
2813	10*d.*	Twisting fibrous materials, &c.
2814	3*d.*	Sliding window sashes, shutters, and doors.
2816	3*d.*	Roasting coffee.
2817	3*d.*	Railways.
2818	5*d.*	Electric batteries.
2819	6*d.*	Pianofortes and organs.
2820	3*d*	Treatment of coal gas tar, &c.
2821	3*d.*	Glass and other vitreous vessels.
2822	10*d.*	Preparing clay and manufacturing tiles, &c.
2823	3*d.*	Violins and other musical instruments.
2824	3*d.*	Fire grates and heating apparatus.
2825	6*d.*	Paddle wheels.
2826	11*d.*	Pianoforte acton.
2827	6*d.*	Folding bedsteads.
2828	1*s.* 2*d.*	Machinery for tilling and cultivating land.
2829	10*d.*	Pumps.
2830	1*s.* 3*d*	Driving and drawing up piles by steam.
2831	3*d.*	Rods and shafts.
2832	3*d.*	Preserving and colouring wood.
2833	3*d.*	Printing yarns and fabrics.
2834	3*d.*	Taps.
2835	3*d.*	Electro-magnetic telegraph ropes or conductors.
2837	6*d.*	Manufacture of fuel from peat, &c.
2838	9*d.*	Steam boilers.
2839	3*d.*	Lubricating oils.
2840	3*d*	Cements.
2841	3*d.*	Buttons.
2842	3*d.*	India rubber overshoes.
2843	7*d.*	Gas regulator.
2844	3*d.*	Lamps.
2845	3*d.*	Shuttles.
2846	3*d.*	Economizing heat and consuming smoke, &c.
2847	1*s.* 4*d.*	Smelting zinc ores.
2849	4*d.*	Manufacture of waterproof tissues, &c.
2850	9*d.*	Warping, sizing, and weaving machines.
2851	10*d.*	Machinery for tracing designs on metallic surfaces.
2852	3*d.*	Elastic beds.
2853	6*d.*	Obtaining motive power.
2854	7*d.*	Candlesticks, lamps, and lanthorns.
2856	6*d.*	Manufacture of cranked axles and shafts.
2857	3*d.*	Steam engines.
2858	10*d.*	Steam engines, &c.
2859	6*d.*	Precipitation of copper and zinc.
2860	7*d.*	Pumps.
2861	3*d.*	Taps or valves.
2862	1*s.* 4*d.*	Weaving.
2863	6*d.*	Manger fastening.
2864	7*d.*	Transmitting electric telegraph signals.
2865	3*d.*	Manufacture of vinegar from refuse product of starch.
2866	10*d.*	Furnaces for generating steam, &c.
2868	10*d.*	Steam engines.
2869	10*d.*	Working railway breaks.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

A FREE LIBRARY and READING ROOM, in connection with the Office of the Commissioners of Patents, is open to the Public daily from 10 till 4 o'clock.

In addition to the Printed Specifications, Indexes, and other publications of the Commissioners, the Library includes a Collection of the leading British and Foreign Scientific Journals, and text-books in the various departments of science and art. A printed Catalogue of the Library is on sale.

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Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
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Darlington (*Mechanics' Institute, Skinnergate*).
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Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
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Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
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Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
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Liverpool (*Free Public Library, Duke Street*).
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——— Steam Branch.
——— Deptford Dockyard.
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——— Chatham ditto.
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——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
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——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
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Gotha—Ducal Friedenstein Collection.
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Netherlands—Ministère de l'Intérieur, The Hague.
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THE PATENT LAW AMENDMENT ACTS (15 & 16 Vict., cap. 83; 16 Vict., cap. 5; and 16 & 17 Vict., cap. 115); with the Rules and Regulations made by the Commissioners of Patents for Inventions, and by the Lord Chancellor and the Master of the Rolls, under the Acts 15 and 16 Vict., c. 83, and 16 & 17 Vict., c. 115, accompanied by Specimen Forms of the Provisional Documents printed on sheets of the prescribed size. Price 6*d*.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 16th July, 1859.

Mornings - - - -	829
Evenings - - - -	993
Total - - -	1822

Since the opening of the Museum Free Daily (May 12, 1858,)—118,037.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of 2*l.* 3*s.* 11½*d.*

FIRE-ARMS, PROJECTILES, &c.—The series of Specifications and Drawings on this Subject, from 15th May, 1718, to 31st December, 1853, with Alphabetical and Subject-matter Indexes, may be obtained at the cost price of 9*l.* 18*s.* 6½*d.*

The Indexes, separately, price 3*s.*

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. CURTIS for a Patent. Price 1*s.*

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s.* 6*d.*

In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

The classes already published are,—

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PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

LONDON:
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Published at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 579. FRIDAY, JULY 22, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1310. To LUKE DUNCAN JACKSON, Engineer, 32, Finsbury Market, Finsbury, in the county of Middlesex, for the invention of "An improved machine for cutting wood."

On his petition, recorded in the Office of the Commissioners on the 27th day of May, 1859.

1498. To WILLIAM BUCKWELL, of the Phœnix Stone Works, East Greenwich, in the county of Kent, Artificial Stone Manufacturer, for the invention of "Manufacturing materials for building and other structural purposes, and of the machinery applied thereto, which last invention is applicable to other purposes."

On his petition, recorded in the Office of the Commissioners on the 22nd day of June, 1859.

1510. To ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the empire of France, for the invention of "An improvement in the working and securing of sliding tubes, applicable to gas chandeliers, lamps, and other purposes."

On his petition, recorded in the Office of the Commissioners on the 23rd day of June, 1859.

1554. To ALPHONSE GUEYTON, of Paris, in the French Empire, Jeweller, for the invention of "Improvements in enamelling articles of jewellery, applicable also to other similar purposes."

On his petition, recorded in the Office of the Commissioners on the 30th day of June, 1859.

1598. To JAMES HALL NALDER, of Alvescott, in the county of Oxford, Farmer, and THOMAS NALDER, of Challow Works, in the county of Berks, Engineer and Agricultural Implement Manufacturer, for the invention of "Improvements in winnowing and dressing grain and seeds, and in the machinery or apparatus employed therein."

On their petition, recorded in the Office of the Commissioners on the 5th day of July, 1859.

1600. To WILLIAM HENRY WARD, of the city of Auburn, in the county of Cayuga, and state of New York, one of the United States of North America, for the invention of "Ocean marine signal telegraphing for day and night, whereby messages and communications on all occasions and subjects may be given with clearness and despatch, within seeing distance, day or night."

1608. And to BENJAMIN SEED, of Keighley, Grease Manufacturer, and THOMAS STEEL, of Bradford, Foreman, both in the county of York, for the invention of "Improvements in apparatus employed in the treatment of soap suds or other saponaceous or oily matters."

On both their petitions, recorded in the Office of the Commissioners on the 6th day of July, 1859.

1610. To DAVID THOMAS JONES, of Headless Cross, in the parish of Ipsley, in the county of Warwick, Agricultural Implement Maker, for the invention of "Improvements in ploughs."

1611. To CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for the invention of "An improved form of regulator, chiefly applicable to water-wheels."—A communication from Ferdinand Gabet, residing at Bermerain Nord, in the empire of France.

1612. To FRANÇOIS ALEXANDRE LE MAT, of New Orleans, in the state of Louisiana, in the United States of America, Colonel Aide-de-Camp, for the invention of "Improvements applicable to ordnance."

1614. To RICHARD CHRISTOPHER RAPIER, of Newcastle-upon-Tyne, in the county of Northumber-

land, Engineer, for the invention of "Improvements in working rolls for rolling plates of unequal thicknesses."

1618. And to JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in knitting-frames."—A communication from abroad by Jules Nicholas Poivret, of Troyes, France, Mechanician.

On their several petitions, recorded in the Office of the Commissioners on the 7th day of July, 1859.

1619. To GEORGE ELLIS, of No. 4, Collier Street, Pentonville, in the county of Middlesex, Merchant, for the invention of "'The improvement of muffs, to be called 'the patent reticule travelling muff.'"

1620. To WILLIAM HENRY DAWES, of Bromford Iron Works, West Bromwich, in the county of Stafford, Ironmaster, for the invention of "An improvement or improvements in the manufacture of iron."

1622. To FRANÇOIS ALEXANDRE LE MAT, of New Orleans, in the state of Louisiana, in the United States of America, Colonel Aide-de-Camp, for the invention of "Improvements in the construction of revolving or repeating fire arms."

1624. To GEORGE CARTWRIGHT, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in corks for bottles and jars."

1625. To GEORGE ALEXANDER BOGGIS, of Croxted Place, Dulwich, in the county of Surrey, for the invention of "Improvements in rendering boots and shoes waterproof."

1626. To ELIJAH LIVERMORE, of the city of New York, in the United States of America, for the invention of "Improvements in the manufacture of burning fluids for illuminating and heating purposes."—A communication by Levi Lewis Hill, resident at Greenport, in the county of Columbia, and state of New York, in the United States of America.

1627. To DAVID MATHEWS, of Eshald Well Brewery, Oulton, near Leeds, in the county of York, Brewer, for the invention of "Improvements in apparatus for refrigerating and heating liquids."

1628. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in moulding or shaping metals by pressure, and in the machinery or apparatus employed therein."—A communication from abroad by Levi Dodge, of the United States of America.

1629. To WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, for the invention of "Improvements in ships' capstans and riding bits."

1630. To HENRY BRINSMEAD and JEREMIAH LAWRENCE, of Ipswich, for the invention of "Improvements in rotatory screens."

1631. To JOHN TAYLOR, of Roupell Park, Streatham Hill, in the county of Surrey, for the invention of "Improvements in the construction of walls to prevent damp from rising, and also in tiles to be used for this purpose in building walls."

1632. To THOMAS DUPPA DUPPA, of Longville, Winstanton, Shropshire, for the invention of "Improvements in carpenters benches."

1633. To WILLIAM WOOFE, of Gloucester, Agriculturalist, for the invention of "Improvements in ploughs."

1635. And to WILLIAM NEWZAN NICHOLSON, of Newark-on-Trent, Agricultural Implement Maker, for the invention of "Improvements in clod crushers and land and garden rollers."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of July, 1859.

1636. To MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "Improvements in the manufacture of over-shoes and other articles worn on the feet, and in the apparatus employed therein."—A communication from abroad by Louis Alfred d'Hennin, Mathilde Catherine Georgette Ponceot and Caliste Blois Chiche, all of Paris, in the French empire.

1637. To BERNHARD SAMUELSON and JOHN SHAW, both of the Britannia Works, Banbury, in the county of Oxford, for the invention of "Improvements in reaping and mowing machines."

1638. To FREDERICK AYCKBOURN, of 27, Henry Street, Vauxhall Gardens, Surrey, Gentleman, for the invention of "Constructing certain articles of dress, so as to prevent drowning."

1639. To CHARLES ILIFFE, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in the manufacture of buttons."

1641. To ELIJAH LIVERMORE, of the city of New York, in the United States of America, for the invention of "Improvements in generating gas for the purpose of lighting and heating."

1642. And to JOHN SMITH, of Bradford, in the county of York, Engineer, for the invention of "Improvements in apparatus for heating and cooling water."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of July, 1859.

1643. To EDWARD FRANCIS HUTCHINS, Architect, of Albert Cottages, Perry Street, in the parish of Northfleet, Kent, for the invention of "Constructing the jaw or jaws of vices and holding tools in general with a ball and socket joint."

1644. To ROBERT CLEGG, of Islington, in the county of Middlesex, Gentleman, for the invention of "Improvements in machines for cutting wood and metal, and in the means of fixing saws thereto."—A communication from abroad by Felix Crampe, of No. 107, Rue de Vangirard, Paris, in the empire of France.

1645. To HENRY DAVIES, of No. 13, Leicester Buildings, in King Street, Liverpool, in the county of Lancaster, for the invention of "Improvements in the manufacture of soap."

1646. To JOHN CHARLES PICKARD, of Burnley, in the county of Lancaster, Patent Temple and Weft

Fork Maker, for the invention of "Improvements in weft forks for looms."

1647. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in magneto-electric machines."—A communication from abroad, by George W. Beardslee, of Flushing, state of New York, in the United States of America.

1648. To JAMES DIBLE, of Northam, in the county of Hants, Shipwright, and WILLIAM HENRY GRAVELEY, of Upper East Smithfield, in the county of Middlesex, Engineer, for the invention of "Improvements in apparatuses for ventilating and lighting ships."

1649. To FRANCIS BURDEN, of John Street, Adelphi, in the city of Westminster, Civil Engineer, for the invention of "Improvements in the permanent way of railways."

1650. And to JULES ALBERT HARTMANN, of Mulhouse, in the empire of France, Chemist, for the invention of "Improvements in the manufacture of colours for printing cotton and other vegetable fibres and silk."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of July, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

1690. WILLIAM MCINTYRE CRANSTON, of 11, New Broad Street, London, praying for Letters Patent for the invention of "Improved delivery apparatus for harvest machines,"—a communication from abroad by Walter Abbott Wood, of Hoosick Falls, county of Renselaer, State of New York, America,—was deposited and recorded in the Office of the Commissioners on the 16th day of July, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

22nd July, 1859.

202. BENJAMIN TEMPLAR, of the city and county of Bristol, Dyer, for an invention of "Improvements in umbrellas and parasols."—Dated 22nd January, 1859.

203. EDWARD DORSETT, of 76, Old Broad Street, in the city of London, Tar Distiller, and JOHN BENNINGTON BLYTHE, of Minerva Place, New Cross, in the county of Kent, Merchant, for an invention of "Improvements in the distillation of oil from coal tar, and in apparatus for preserving timber therewith."—Dated 22nd January, 1859.

212. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in pumps."—A communication from François Ruff, residing at Paris.—Dated 24th January, 1859.

213. JOSEPH LAUBEREAU, of Paris, in the empire of France, Civil Engineer, for an invention of "Improvements in air engines."—Dated 24th January, 1859.

214. JOHN SMITH and WILLIAM HENRY SMITH, of 8, Upper Fountain Place, City Road, in the county of Middlesex, Manufacturers, for an invention of "Certain improvements in manufacturing paper, and in producing watermarks, patterns, figures, letters, and devices thereon, and in the construction of the mechanism employed therein."—Dated 24th January, 1859.

215, JOHN SAVORY, of 143, New Bond Street, Chemist and Druggist, and WILLIAM ROBERT BARKER, of the same place, Chemist, for an invention of "Improvements in bottles for medicines and poisons."—Dated 24th January, 1859.

217. ARTHUR WARNER, of 31, Threadneedle Street, in the city of London, and WILLIAM TOOTH, of Summer Street, Southwark, in the county of Surrey, for an invention of "Improvements in the manufacture of iron and gases for such and other uses."—Dated 24th January, 1859.

227. JOHN WHITE, of Finchley, in the county of Middlesex, Surgeon, for an invention of "Improvements in means or apparatus to facilitate respiration under water or under the influence of fire, or in other situations where an artificial supply of air may be required; part of which improvements is also adapted to facilitate movement in or upon the surface of water."—Dated 25th January, 1859.

238. DAVID GRAHAM, of the firm of Graham, West, and Company, of Wapping, in the county of Middlesex, Millwrights and Engineers, for an invention of "An improved method of driving centrifugal machines."—A communication from T. Hanning, residing in the Mauritius.—Dated 26th January, 1859.

240. FREDERICK CARL CHRISTIAN PAULSEN and ALBIN ALSING, both of Emmett Street, Limehouse, in the county of Middlesex, for an invention of "Improvements in preparing beverages usually called Punch."—Dated 26th January, 1859.

370. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved mode of bleaching and purifying or refining sugar and vegetable juices or extracts."—A communication from abroad by Emile Rousseau, of Paris, in the empire of France.—Dated 9th February, 1859.

395. THOMAS WILLIS and GEORGE CHELL, both of Longsight, near the city of Manchester, Machine Makers, for an invention of "Improvements in machinery for spinning, twisting, doubling, and winding yarns and threads."—Dated 12th February, 1859.

617. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for rolling horse-shoe iron."—A communication from William Watkin Lewis, risiding in the United States of America.—Dated 9th March, 1859.

833 Thomas Richardson, of Hartlepool, in the county of Durham, Engineer, and George William Jaffrey, of the same place, Engineer, for an invention of "Improvements in the arrangement and construction of harbours of refuge, breakwaters, sea walls, or barriers, and other like structures."—Dated 2nd April, 1859.

851. Leonard Brierley, of Birmingham, in the county of Warwick, Manufacturer, and Henry Geering, of Birmingham aforesaid, Manufacturer, for an invention of "A new or improved method of ornamenting metallic bedsteads and other articles of metallic furniture."—Dated 5th April, 1859.

1263. Walter Crum, of Thornliebank, in the county of Renfrew, Bleacher and Calico Printer, for an invention of "Improvements in printing and dyeing textile fibres and fabrics."—Dated 23rd May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 20th July*, 1859, *inclusive*).

18th July.

1707. William Astbury Jump, of Moulton, near Northwich, in the county of Chester, Salt Manufacturer, for an invention of "Improvements in the manufacture of salt."—Dated 19th July, 1856.

1708. William Astbury Jump, of Moulton, near Northwich, in the county of Chester, Salt Manufacturer, for an invention of "Improvements in apparatus for supplying with fuel the furnaces of steam boilers and other furnaces, and in the method of cleaning the fire bars thereof."—Dated 19th July, 1856.

1711. William Papineau, of Harrow Bridge, Stratford, Manufacturing Chemist, for an invention of "An improvement in the production of spirits of wine."—Dated 19th July, 1856.

1748. Henry Doubleday, of Coggeshall, in the county of Essex, for an invention of "An improvement in the manufacture of starch."—Dated 23rd July, 1856.

19th July.

1719. James Clark, of Newton Heath, Manchester, India Rubber Manufacturer, for an invention of "Improvements in the manufacture of waterproof fabrics."—Dated 21st July, 1856.

1725. John Edward Hodges, of Leicester, in the county of Leicester, Manufacturer, for an invention of "Improvements in machinery for the manufacture of looped fabrics."—Dated 21st July, 1856.

1742. John Onions, of Wellington Place, Blackfriars Road, Southwark, county of Surrey, Engineer, for an invention of "Improvements in the manufacture of iron."—Dated 23rd July, 1856.

1749. John Derbyshire, of Longton Potteries, in the county of Stafford, for an invention of "Improvements in cocks, taps, and valves."—Dated 23rd July, 1856.

20th July.

1715. Elias Leak, of Longton, in the county of Stafford, Lathe Maker, for an invention of "A thimble pillar with points and branches to be used in placing 'glost' china and earthenware in ovens and kilns, when firing, burning, or baking such ware, in lieu of the cockspurs and stilts now in use for that purpose."—Dated 21st July, 1856.

1729. Clothide Amet, of Tavistock Street, in the county of Middlesex, for an invention of "Improved means of distending articles of dress and preserving the form or shape thereof."—A communication from R. C. Milliet, of Bésançon, France.—Dated 22nd July, 1856.

1810. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "A new or improved process for obtaining aluminium."—A communication from Messrs. Rousseau, Frères, and Paul Morin.—Dated 31st July, 1856.

1984. William Henry Perkin, of King David Fort, in the Parish of Saint George in the East, in the county of Middlesex, Chemist, for an invention of "Producing a new colouring matter for dyeing with a lilac or purple color stuffs of silk, cotton, wool, or other materials."—Dated 26th August, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

A List of the Patents for Inventions which have become Void by reason of the Nonpayment of the additional Stamp Duty of £50 before the expiration of the Third Year from the date of such Patents, pursuant to the Act of the 16th Vict. c. 5, sec. 2,—for the Quarter ending the 30th day of June, 1859.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
780	1st April, 1856.	Joseph Bentley, of Liverpool, in the county of Lancaster, Gun Manufacturer.	Improvements in breech-loading fire-arms, and in the cartridges to be used therewith.
781	,,	Charles Baptiste, Mechanician, of Toulouse, France.	Improvements in machines for manufacturing tenons and mortises.
785	,,	Etienne Laport, Chemist, of Paris, in the French empire.	The application of certain new materials in the manufacture of bougies, candles and other similar articles.
787	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved apparatus for ascertaining gradients.
791	2nd April, 1856.	Frances Young, of Norwich, in the county of Norfolk.	An improved two-wheeled open vehicle or carriage.
792	,,	Richard Roberts, of the city of Manchester, Engineer.	Improvements in omnibuses and other passenger carriages.
793	,,	Peter McGregor, of the Falcon Works, in the city of Manchester, Machine Maker, and Thomas Marquis, of Huncoat, near Accrington, in the county of Lancaster, Spinner.	Certain improvements in the machines for spinning, called throstles.
794	,,	James Smith Cottrill, of Great Lever, near Bolton, in the county of Lancaster, Bleacher.	Improvements in presses.
796	,,	George Bell Galloway, of 42, Basinghall Street, in the city of London, late of Chili, in South America, Engineer and Shipowner.	Improvements in propelling vessels.
798	,,	George Gwynne, of Trafalgar Square, in the county of Middlesex, Esquire.	Improvements in treating fatty, oily, and greasy bodies.
799	,,	Henry George Hine, of Brecknock Street, Camden Town.	Improvements in children's and in valids' carriage, called perambulators.
802	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in the construction of rotary steam engines, applicable in part to pumps for raising and forcing fluids.
808	3rd April, 1856.	Thomas White, Junior, of Portsmouth, in the county of Hants, Engineer and Ship Builder.	Improvements in slips and ways for receiving ships or vessels requiring repair, and for apparatus to be used for hauling up ships or vessels.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
811	3rd April, 1856.	James Bannehr, of Exeter - -	An improvement in manufacturing or preparing paper for, and in mounting copies of written documents thereon.
816	4th April, 1856.	Samuel Fisher, of Birmingham in the county of Warwick, Engineer.	Improvements in the manufacture of anchors, shafting for mill and engine purposes, axles, cranks, and spindles, and in the furnaces or muffles used in the said manufacture.
819	,,	George Tomlinson Bousfield, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	Improvements in moulding planes.
822	5th April, 1856.	James Hogg, Publisher, South Blacket Place, and John Napier, Stereotyper, East Siennes Street, both of Edinburgh, in the county of Edinburgh.	Improvements in stereotyping.
825	,,	James Webster, of Birmingham, in the county of Warwick, Engineer.	A new or improved elastic metallic tube and in the method of manufacturing the same.
829	,,	Henry Thomas Sturley, of Church Street, South Lynn, in the county of Norfolk.	An improved compound or breakfast mixture.
831	,,	William Porter Maddison, of Barnsley, in the county of York.	An improved telegraph or apparatus for the transmission of signals.
834	,,	Henry Craigie, of Edinburgh, W. S. -	Improvements in heating apartments where gas and water are used.
839	7th April, 1856.	Ephraim Morris, of Bergen, in the county of Hudson, and State of New Jersey, United States of America.	Improved machinery for raising and lowering weights.
840	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	An improved construction of furnace for the manufacture of glass.
841	,,	Charles Durand Gardissal, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent.	Preparing various resins and combining them with oils and fatty matters for manufacturing candles thereof.
844	,,	William Coles Fuller, of 2, Bucklersbury, Cheapside, in the city of London, India Rubber Spring Manufacturer.	Improvements in constructing and adapting india rubber as tyres for wheels.
848	8th April, 1856.	Stephen Johnson Gold, of the city of New Haven, and State of Connecticut, United States of America.	An improvement in apparatus for warming buildings by steam.
851	,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in the process of manufacturing steel and carbonizing iron and the ores thereof in the said manufacture.
854	,,	John Brook, of 10, Crescent, Jewin Street, City.	Improvements in lift pumps.
856	9th April, 1856.	Joseph Robert Whitgreave, of Rugeley, in the county of Stafford, Gentleman.	Improvements in the arrangement and construction of locomotive engines.
858	,,	Richard Chrimes, of Rotherham, in the county of York, Brass Founder.	Improvements in buffers and other springs for railway and other carriages.
861	10th April, 1856.	Henry Laxton, of the firm of William and Henry Laxton, of the Office for British and Foreign Patents, No. 19, Arundel Street, Strand, Civil Engineer.	An improved mode of adjusting circular saws.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
867	11th April, 1856.	Thomas Williams Makin, of Longsight, near Manchester, in the county of Lancaster, Silk Finisher, and John Barnsley, of Stockport, in the county of Chester, Engraver.	Improvements in machinery or apparatus for embossing moiré antique water on all kinds of woven fabrics.
868	,,	Louis Normandy, of 67, Judd Street, Brunswick Square, in the county of Middlesex, Civil Engineer.	Improvements in the mode of writing and printing music to facilitate the study thereof.
869	,,	James Burnside, of No. 42, Henry Street, Sunderland, General Traffic Manager for the Sunderland Dock Company.	Improvements in apparatus for propelling and steering ships and boats.
870	,,	Peter Armand le Comte de Fontaine-Moreau, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London.	An improved apparatus for measuring the speed of currents of air and water.
871	,,	George Jackson, of Bilston, in the county of Stafford, Iron Master.	A new or improved steam boiler, to be heated by the waste heat of puddling or mill furnaces.
872	,,	Robert Davis, of 267, Oxford Street, in the county of Middlesex.	Improvements in the construction of tobacco pipe stems.
878	12th April, 1856.	Francisco Niubo y Pedros, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London.	A new motive power.
880	14th April, 1856.	Edwin Heywood, of Sutton, near Keighley, in the county of York, Designer.	Improvements in fixing apparatus for generating steam, whereby smoke will be prevented or consumed, and fuel economized.
883	,,	John Symonds and Thomas Mara Fell, Smelters and Gold Ores Reducers, of Sufferance Wharf, Mill Wall, Poplar, in the county of Middlesex.	Certain improvements in the reduction of gold, silver, and other ores.
885	,,	George Davies, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the county of Middlesex, Civil Engineer.	Improvements in the method of soldering or uniting cast iron.
886	,,	Louis Pierre Coulon, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London.	A new type distributing and composing machine.
990	,,	William Warren, of Northampton Park, Gentleman, and Warren de la Rue, of Bunhill Row, Manufacturer, both in the county of Middlesex.	An improvement in the manufacture of envelopes.
891	,,	Samuel Cunliffe Lister, of Bradford, in the county of York.	Improvements in weaving.
894	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved mode of constructing grate bars.
898	15th April, 1856.	Thomas Jeffries, of Reading, in the county of Berks.	Improvements in cooking stoves.
899	,,	Edmund Richard Southby, of Bulford, Amesbury, in the county of Wilts.	An improvement in coating iron with copper.
900	,,	George Tomlinson Bousfield, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	Improvements in surface or fresh water condensers, chiefly applicable to steam-engines.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
903	16th April, 1856.	WILLIAM ROUTLEDGE, of Salford, in the county palatine of Lancaster, Engineer.	Improvements in the construction of steam-engine and other boilers to prevent explosions.
905	,,	FREDERICK PRIESTLEY, of Cleveland Street, Fitzroy Square, in the county of Middlesex, Pianoforte Manufacturer.	Improvements in pianofortes.
906	,,	DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the county of the town of Newcastle-upon-Tyne, Doctor of Medicine.	An improvement or improvements in cylinders, pistons, or plungers.
909	,,	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved apparatus for raising sunken vessels and increasing the buoyancy of floating vessels.
910	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in cleansing and hulling grain and seeds, and in the machinery or apparatus employed therein.
911	,,	WILLIAM ARMITAGE, of Farnley Iron Works, and HENRY LEA, Manager to the Farnley Iron Company, both of Farnley, near Leeds, in the county of York.	An improvement in the manufacture of iron.
912	,,	WILLIAM LITTLE, of the Strand - -	Improvements in lamps for burning paraffine and bituminous oils or naphthas.
917	17th April, 1856.	LIANNA MESURE, of Billericay, in the county of Essex, Watch Maker.	An improvement in watches.
920	,,	JOHN SKIRROW WRIGHT, of Birmingham, in the county of Warwick, Manufacturer.	Improvements in the construction and ornamentation of belt or band fastenings.
921	18th April, 1856.	GEORGE LÜRIG, of the town of Adelebsen, Hanover, residing in Paris, Soap Manufacturer.	Improvements in the process of manufacturing salt petre.
922	,,	WILLIAM WESTLEY, of Willington, in the county of Derby, Civil Engineer.	A new or improved nail or spike.
924	,,	JOHN MARSH, of Burnt Tree, near Dudley, in the county of Worcester, Manufacturer.	Improvements in fire grates.
927	,,	THOMAS HOLLINGWORTH, of Turkey Mill, near Maidstone, in the county of Kent, Paper Manufacturer.	Improved machinery for dusting or cleaning rags.
930	,,	THOMAS WALKER, of Birmingham, in the county of Warwick, Engineer.	Improvements in governors or regulators of steam and other motive-power engines.
931	,,	GEORGE THOMPSON, of Marchmont Street, Russell Square, in the county of Middlesex, Gentleman.	Improvements in instruments or apparatus used in drawing or marking with crayon, "black lead," or other such materials.
932	,,	JULIUS JEFFREYS, of Kingston Hill, in the county of Surrey.	Improvements in instruments for aiding respiration.
933	,,	PETER WILLIAM BARLOW, of Great George Street, Westminster.	An improvement in seasoning timber.
934	,,	JOSIAH GEORGE JENNINGS, of Great Charlotte Street, Blackfriars Road, in the county of Surrey.	Improvements in pumps.
935	19th April, 1856.	CLAUDE MORET, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Engineer.	Improvements in rotatory steam engines.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
938	19th April, 1856.	EDMUND HUNT, of 31, Walnut Tree Walk, in the parish of St. Mary, Lambeth, in the county of Surrey, Practical Chemist.	Improvements in Hansom cabs and similar vehicles, parts of which improvements are also applicable to other carriages.
939	"	CHARLES FREDERICK STANSBURY, of the American and European Patent Offices, 67, Gracechurch Street, London.	A new instrument for determining the position and bearing of ships at sea.
940	"	WILLIAM ADKINS, of Smallbrook Street, Birmingham, in the county of Warwick, Draper.	Measuring fabrics, which he proposes designating the automaton measurer or draper's assistant.
941	"	THOMAS WILKES, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved method of manufacturing tubes of copper and alloys of copper.
946	"	FRANÇOIS JEAN BOUWENS, of Malines, in the kingdom of Belgium, Architect.	A new rotative steam engine.
949	21st April, 1856.	SAMUEL MELLOR, of Salford, in the county of Lancaster, Mechanic, and THOMAS YOUNG, of the city of Manchester, Tobacco Manufacturer.	Certain improvements in machinery for suplying water to steam boilers.
952	"	JOSEPH AUGUSTE MARIE TOUËT CHAMBOR, of Paris, in the empire of France.	Improvements in fireplaces.
954	"	JAMES HANSOR, of 2, Portland Place, Wandsworth Road, in the county of Surrey, Practical Chemist.	Improvements in the manufacture of illuminating gas.
955	22nd April, 1856.	WILLIAM JAMES CANTELO, of Southwark, in the county of Surrey, Gentleman.	Improvements in the preservation of vegetable matters.
957	"	ALEXANDER SYMONS, of George Street, Mansion House, in the city of London, and EDWARD BURGESS, of Clerkenwell Green, in the county of Middlesex.	Improvements in instruments for ascertaining and indicating heat, and also in the parts for making and breaking contact in electric circuits used therewith."
960	"	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	A new method of obtaining purified oil from coal, shale, and other bituminous substances.
965	"	THOMAS JEACOCK, of 20, Bridge Street, Leicester.	An improvement in knitting machinery.
967	"	WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the county of Northumberland, Civil Engineer.	Improvements in apparatus for lifting, lowering, and hauling.
968	"	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in or connected with centrifugal machinery.
970	23rd April, 1856.	GEORGE FORSTER, of Standish, near Wigan, in the county of Lancaster, Colliery Viewer.	Certain improvements in the arrangement of "trap doors" or "air-doors," and their cases in the workings or passages in mines, whereby the efficient ventilation is maintained, which said improvements are also applicable in other similar situations.
972	"	JAMES GARNETT, of Low Moor, Clitheroe, in the county of Lancaster, Cotton Spinner.	Improvements in twisting, winding, and reeling yarn, and in machinery or apparatus employed thereon.

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974	23rd April, 1856.	THOMAS SQUIRE, of Latchford, in the county of Chester, Tanner, and CHARLES FREDERICK CLAUS, of the same place, Practical Chemist.	Improvements in the manufacture of artificial manure.
975	,,	JOHN SHAE PERRING, of Radcliffe, in the county of Lancaster, Civil Engineer.	Improvements in chairs for railways.
976	,,	WILLIAM HENRY BALMAIN, of Saint Helens, in the county of Lancaster, Manufacturing Chemist, and THOMAS COLBY, of the same place, Practical Chemist.	Improvements in the manufacture of alkalies from their sulphates.
977	,,	JAMES BARBOUR, of Glasgow, in the county of Lanark, North Britain, Joiner.	Improvements in sawing apparatus.
980	24th April, 1856.	ALEXANDER SOUTHWOOD STOCKER, of 11, Poultry, Cheapside, in the city of London, Manufacturer.	Improvements in the application of certain materials to the manufacture of ink and other stands and other articles, and in the manufacture and finishing of articles produced out of such or other material or materials.
981	,,	ABEL DÉSIRÉ SCHRATZ, of Saint Denis, near Paris, in the empire of France, Chemist.	Improvements in preparing colours for the impression of woven or textile fabrics or stuffs of any kind.
982	,,	JOHN YEOMANSON and WILLIAM YEOMANSON, both of Leicester, Manufacturers of Hosiery.	Improvements in the manufacture of knitted fabrics.
987	,,	VICTOR DOAT, of Albi, in the French empire, Gentleman.	An improved galvanic battery, and method of recovering and revivifying the agents employed.
988	,,	WALTER NEILSON, of Glasgow, in the county of Lanark, North Britain, Engineer.	Improvements in locomotive engines.
993	25th April, 1856.	JAMES HARDACRE, of the city of Manchester, in the county of Lancaster, Engineer.	Improvements in the arrangement and construction of carriages and carriage wheels.
995	,,	ISAËE DANIEL FRAÉTANIEL, of Paris, France, Proprietor.	An improved safety rein or bridle.
996	,,	WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist.	Improvements in the manufacture of sulphuric acid.
998	26th April, 1856.	THOMAS HILL, of Heywood, in the county of Lancaster, Boiler Manufacturer.	Improvements in steam boilers and furnaces connected therewith.
1000	,,	EDMUND TOPHAM, of Mansfield Road, Nottingham, in the county of Notttingham.	Apparatus for cleansing out the sediment from the water in steam boilers, and preventing incrustation of the same.
1002	,,	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for manufacturing painted or enamelled cloth.
1004	,,	THOMAS WALKER, of Warwick Place, Pimlico, in the county of Middlesex.	Improvements in playing cards.
1011	28th April, 1856.	WILLIAM DENNY RUCK, of Topping's Wharf, Tooley Street.	An improvement in tanning hides and skins.
1013	29th April, 1856.	JOHN HICK, of Bolton-le-Moors, in the county of Lancaster, Engineer.	Apparatus for equalizing the temperature of the water in that kind of steam boilers generally called multitubular boilers.

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1014	29th April, 1856.	James Stead Crosland, of Openshaw, near the city of Manchester, Engineer.	Certain improvements in furnaces and steam generators for locomotive steam engines, and other purposes.
1015	,,	Thomas Greenshields, of No. 11, Little Titchfield Street, London.	Improvements in sleepers for railways.
1017	,,	Thomas Webster Rammell, of Trafalgar Square, in the county of Middlesex.	Improvements in pen and pencil holders.
1018	,,	Isaac Abraham Boss, of Bury Street, in the city of London.	Improvements in preparing cane, in order to render it suitable to be used as a substitute for whalebone.
1019	,,	William Pilling, of Oldham, in the county of Lancaster, Manager.	An improvement in the treatment of yarns or threads, and in the apparatus connected therewith.
1021	30th April, 1856.	John Smith, of Collyhurst, near the city of Manchester, Dyer and Finisher, and William Craven, of the same place, Engineer.	Certain improvements in machinery or apparatus for dressing machinery and finishing velvets, velveteens, and other fabrics.
1023	,,	Samuel Dyer, of the city of Bristol, Shipowner.	Improvements in reefing, furling, and setting the sails of ships and vessels.
1025	,,	Louis Jean Baptiste Manevy, of Paris, in the empire of France.	Certain improvements in manufacturing cast steel.
1026	,,	Wright Jones, of Pendleton, in the county of Lancaster, Engineer.	Improvements in apparatus for regulating the pressure and flow of steam, water, and other fluids.
1032	1st May, 1856.	Stephen Carey, of Clink Street Wharf, Bankside, Southwark, in the county of Surrey, Contractor.	Improvements in water carts and barrows.
1034	,,	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in machinery for felting or "planking" hat bodies.
1036	,,	Nathaniel Smith, of Thrapston, in the County of Northampton, Engineer.	Improvements in clod-crushing rollers, parts of which are applicable to other descriptions of rollers.
1037	,,	Augustus Smith, of Wentworth Street, in the county of Middlesex, Brush Manufacturer.	Treating vegetable fibres in order to fit them for use as a substitute for bristles in paint and other brushes.
1038	,,	Samuel Hunter, of 13, Ravensworth Terrace, Gateshead, and Dock Anchor Works, Hartlepool.	An Improvement in anchors.
1040	2nd May, 1856.	Richard Pearcy, of Manchester, in the county of Lancaster, Machinist.	Improvements in machinery or apparatus for twisting cotton and other fibrous substances.
1044	,,	Alexander Gordon, of Fludyer Street, Whitehall.	Improvements in evaporating, boiling, and distilling fluids and generating steam.
1045	,,	Henry Edward Brown, of No. 2, Summer Street North, in the city of Dublin.	Improvements in the description of hinges denominated concealed hinges for carriage doors and doors of every description.
1046	,,	Samuel Rooke, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of stair rods.
1048	,,	Henry Attwood Thompson, of Lewes, in the county of Sussex, Agricultural Implement Manufacturer.	Improvements in hay-making machines.

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1049	2nd May, 1856.	Robert Tolmie Campbell, of Washington City, in the United States of America, but now of 67, Gracechurch Street, London.	Improvements in machines for reaping and mowing.
1050	3rd May, 1856.	Peter Armand le Comte de Fontaine-Moreau, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London.	Improvements in electric telegraphs.
1054	,,	Wright Garside, of Vicar Street, Kidderminster, in the county of Worcester.	A new and improved method of letting off the worsted or yarn from the bobbins employed in weaving carpets and other similar fabrics in which bobbins are employed during the manufacture thereof.
1060	5th May, 1856.	William Gregory, of Old Church Street, Paddington, in the county of Middlesex, Building Surveyor.	An improvement in the construction of roofing tiles.
1061	6th May, 1856.	Amedée Louis Beudant and Jean Louis Marie Paul Benoit, Engineers, of Paris, in the French empire.	Certain improvements in treating ores of copper containing arsenic and antimony.
1062	,,	Obed Blake, of the Thames Plate Glass Works, Blackwall, in the county of Middlesex, Manager.	Improvements in applying practically the principle of internal reflection within transparent substances.
1063	,,	John Wright, of Upnor, near Rochester, in the county of Kent, Civil Engineer.	Improvements in apparatus for lowering ships' boats.
1065	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved apparatus for connecting boats with their tackle, and clearing or detaching them therefrom when lowered from on board ship into the water.
1066	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for making envelopes.
1067	,,	Thomas Huckvale, of Choice Hill, Chipping Norton, Oxon.	Improvements in implements for thinning and hoeing turnips and other crops.
1072	7th May, 1856.	Ralph Heaton, the younger, of Birmingham, in the county of Warwick, and Harry Heaton, of Birmingham aforesaid, and George Heaton, of Birmingham aforesaid, Manufacturers and Co-partners.	A new or improved manufacture of balance weights used for counterbalancing pendant lamps and chandeliers, and for other like purposes.
1074	,,	Jean Périnaud, Dyer, of Paris, town in the French empire.	Certain improvements in preparing or dressing silks.
1075	,,	Robert Royds, of Southampton, in the county of Hants, Engineer.	An improvement or improvements in the manufacture of soap.
1079	8th May, 1856.	Alexander Ebenezer Riddle, of 33, Walbrook, City, and Isaac Hoare Boyd, of 3½, Mansion House Place, City.	The improvements in tanning by machinery and chemicals.
1081	,,	James Gray Laurie, of Glasgow.	Improvements in steam engines.
1082	,,	Jonathan Amory, of Boston, Massachusetts, United States of America.	Improvements in furnaces for locomotive and other steam boilers, which improvements are applicable to reverberatory and puddling furnaces and to furnaces for heating buildings.

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1083	8th May, 1856.	Conrad William Finzell, of Bristol, Sugar Refiner, William Needham, of Smallbury Green, in the county of Middlesex, Manufacturer, and John Barton, of Shoe Lane, in the city of London, Engineer.	Improvements in apparatus for filtering sugar and saccharine juices.
1084	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in machinery for felting or sizing hat bodies.
1085	„	Alexander Alliott, of the Park, Nottingham, Engineer.	Improvements in drying apparatus.
1086	„	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for cutting, punching, and forging or swaging nuts or washers.
1089	„	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improvement in bands for securing bales of goods, and for other like uses.
1090	„	Stephen Walter Underhill, Wellfield Cottage, Dunse, Berwickshire.	"The preservation of life in cases of shipwreck, or other casualty at sea, 'The buoyant cushion.'"
1093	9th May, 1856.	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in carding engines for carding cotton and other fibrous materials.
1096	„	Edward Daniel Johnson, of Wilmington Square, in the county of Middlesex, Watchmaker.	An improved mode of mounting marine chronometers.
1098	„	William Edward Wiley, of 34, Great Hampton, Street, Birmingham, Pen and Pencil Manufacturer.	Improvements in the manufacture of pens and penholders.
1100	„	Louis Beauché, of Offenbach, near Frankfort-on-the-Maine.	A machine for the manufacture of cigars.
1103	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in machinery for the manufacture or finishing of tyres, hoops, and rings.
1104	„	Frederick Richard Laurence, of Southampton Street, in the city of Westminster, Shirt Collar Manufacturer.	An improvement in the manufacture of shirt collars and wristbands.
1107	10th May, 1856.	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in machinery or apparatus for cutting irregular forms.
1108	„	James Wallace, junior of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in preparing, bleaching, washing, cleansing, and drying textile fabrics and materials and pulpy substances.
1109	„	Robert Wotherspoon, of Glasgow, in the county of Lanark, North Britain, Hat Manufacturer.	Improvements in hats and other coverings for the head.
1111	„	John Ridal, of Sheffield, in the county of York, Working Cutler.	Improvements in spring knife handles.
1116	12th May, 1856.	Richard Whytock, of Edinburgh -	Improvements in apparatus to facilitate the printing of yarns or threads.

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1117	12th May, 1856.	Edouard Besnier de la Pontonerie, of Paris, in the empire of France.	Certain improvements in the appararatus for consuming smoke.
1118	,,	Barnet Samuel, of Sheffield, in the county of York.	Improvements in the manufacture of combs.
1119	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Certain improvements in machinery for pumping and forcing water and other fluids.
1120	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for splitting or cutting blocks of wood for match splints, kindling wood, treenails, and other purposes.
1122	13th May, 1856.	Michael Hodge Simpson, of the state of Massachusetts, of the United States of America.	Certain improvements in machinery for combing wool or various other fibrous substances.
1128	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved apparatus for generating illuminating gases from coal or other substances.
1129	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for removing snow from railroad tracks.
1131	14th May, 1856.	Henry Bragg, the younger, of Belfast, in the county of Antrim, in Ireland, Commission Agent.	Improvements in machinery or apparatus for finishing linen and other fabrics.
1132	,,	William Galloway and John Galloway, both of Manchester, in the county of Lancaster, Engineers.	Improvements in machinery for rasping, cutting, and chipping dye woods.
1133	,,	Hiram Groves, of the city of New York, in the United States of America, Surveyor and Lithographer.	Improvements in time barrels, or cylinders, or other apparatus for playing upon organs, or other musical instruments.
1136	,,	Jerome André Drieu, of Patricroft, near Manchester, in the county of Lancaster.	Improvements in weaving horse cloths, blankets, rugs, or similar thick materials.
1139	,,	Gustavus Palmer Harding, of Kingsland, in the county of Middlesex, Warehouseman.	An improvement in the manufacture of cloth bonnets.
1140	,,	Alphonse Meillet, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Gentleman.	An improved artificial stone for grinding, sharpening, and polishing.
1142	,,	Charles Gibson, of Draycott, in the county of Derby, Gentleman.	Improved machinery for the manufacture of bricks, tiles, pipes, and other articles made of clay or plastic materials.
1143	,,	William Crofts, of Derby Terrace, Nottingham Park, Manufacturer.	Improvements in the manufacture of lace and other weavings.
1144	,,	William Horatio Harfield, of 113, Fenchurch Street, in the city of London.	Improvements in machinery for cutting and smoothing the surfaces of metallic nuts.
1145	,,	William Evans, of Sherston Malmesbury, in the county of Wilts.	An improved description of plough.
1146	15th May, 1856.	John Cox, of Ivy Bridge Cottage, near Caerleon, in the county of Monmouthshire, Civil Engineer.	Improvements in coke and coke ovens.

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1148	15th May, 1856.	William Norris, of Liverpool, in the county of Lancaster, Anchor Manufacturer, and Robert King, of the same place, Foreman to the said William Norris.	Improvements in anchors.
1149	„	James Young Simpson, of Edinburgh, in the county of Midlothian, Doctor of Medicine, and Wyville Thomson, of Belfast, in the county of Antrim, Professor of Geology.	The manufacture or production of lubricating oil from a new material.
1151	„	Robert Foulds, Overlooker, and William Bracewell, Manufacturer, both of Barnoldswicke, near Colne, in the county of Lancaster.	Certain improvements in power looms constructed on what is called the loose reed principle.
1153	„	Charles Richard Williams, of Shiffnal, in the county of Salop, Farmer.	A new or improved implement or apparatus for the cultivation of land.
1155	„	Samuel Weston Moore, of Nottingham, Lace Manufacturer.	Improvements in dividing and finishing lace goods.
1156	„	William Marychurch, Agricultural Implement Maker, and John Griffiths, Engineer, both of Haverfordwest, in the county of Pembroke.	Improvements in horse rakes, part of which is applicable to two-wheeled carriages.
1157	„	Matthew Townsend, of Leicester, Fancy Hosiery Manufacturer.	Improvements in the manufacture of knitted fabrics.
1159	16th May, 1856.	William Thistlethwaite, of 2, Verulam Buildings, Gray's Inn, London, Gentleman.	Certain improvements in photography.
1160	„	Joseph Martin, of Liverpool, in the county of Lancaster, Rice and Corn Miller.	Improvements in machinery for draining or partially drying certain descriptions of wheat and other grain.
1166	17th May, 1856.	Richard Coleman, of Chelmsford, in the county of Essex.	Improvements in implements for ploughing, hoeing, and scarifying land.
1167	„	David Curwood, of George Street, Grosvenor Square, in the county of Middlesex.	An improved apparatus for facilitating the cleaning of knives and forks.
1169	„	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in machinery for forging or pointing wrought nails, spikes, and other four-sided articles.
1171	„	Louis Cornides, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the county of Middlesex.	Improvements in ornamental window blinds and such like transparent decorations.
1172	„	Johan Jacob Meyer, of No. 28, Tatham Street, out of Molesworth Street within, the borough of Rochdale, in the county of Lancaster.	Improvements in machinery for mortising, tenoning, rounding, sweep and straight moulding, boring, grooving, and mitreing.
1176	„	Richard McCloy and John Hare, both of Glasgow, in the county of Lanark, North Britain, Managers.	Improvements in spinning and twisting fibrous materials, and in the machinery or apparatus employed therein.
1179	19th May, 1856.	John Wilkes, of Birmingham, in the county of Warwick, Manufacturer, and Thomas Wilkes, of Birmingham aforesaid, Manufacturer, and Gilbert Wilkes, of Birmingham aforesaid.	A new or improved manufacture of rollers or cylinders for printing fabrics.

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1182	19th May, 1856.	GEORGE CLARK, of Great Cambridge Street, Hackney Road, in the county of Middlesex, Gas Engineer.	Improvements in the manufacture of illuminating gas.
1188	20th May, 1856.	GEORGE WILKINSON, of 7, Evan Street, Poplar, in the county of Middlesex.	Improvements in steering apparatus and in giving motion to machinery for raising and moving weights.
1190	"	RICHARD MAXWELL, of No. 4, Carlton Terrace, North Brixton, in the county of Surrey.	Improvements in the construction of taps for drawing off liquids.
1191	20th May, 1856.	JAMES ANNING GOLLOP, of 74, Lower Sloane Street, Chelsea, in the county of Middlesex.	An improved method of excluding dust, water, air, and other extraneous matters from doors, windows, glass show cases, and such like constructions.
1193	"	WILLIAM CARDWELL MCBRIDE, of Armagh, county Armagh, Manufacturer.	Improvements in machinery for scutching flax and other vegetable fibrous substances.
1195	"	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in the process of manufacturing oil from seeds, and in the machinery and apparatus to be used therein.
1196	"	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved rotary pump.
1198	21st May, 1856.	DAVID SHAW, of Gee Cross, in the county of Chester, Manufacturer.	Improvements in looms and apparatus employed therewith for weaving.
1199	"	ROBERT PEMBERTON, of Hildenborough, Tonbridge, in the county of Kent.	Improvements in barrel organs.
1202	"	JOHN COPE, of Birmingham, in the county of Warwick, Manufacturer.	An improvement or improvements in the manufacture of buttons made of pearl or other shell, ivory, bone, or wood.
1207	"	GEORGE HERON, of South Street, Newcastle-on-Tyne, in the county of the same, Mechanical Engineer.	Improvements in machinery or apparatus for raising, lowering, moving, or transporting heavy bodies.
1209	"	MACLEROY NEILSON, of Thorn Mill, in the county of Renfrew, North Britain, Cotton Spinner.	Improvements in the treatment, preparation, or finishing of yarns or threads.
1212	"	THOMAS LAWRENCE, of Birmingham, in the county of Warwick, Manufacturer.	Improvements in machinery to be used for grinding and polishing gun barrels, swords, matchets, bayonets, scythes, fire-irons, and other articles similar in transverse section to any of those above named.
1213	"	EDWARD HAMMOND BENTALL, of Heybridge, in the county of Essex, Iron Founder.	Improved machinery for crushing or splitting grain or seeds.
1217	22nd May, 1856.	WILLIAM GALLOWAY and JOHN GALLOWAY, both of Manchester, in the county of Lancaster, Engineers.	Improvements in steam boilers.
1218	"	ALEXANDRE HUBERT, of Bordeaux, dept. de la Gironde, in the empire of France, and 4, South Street, Finsbury, London, Captain in the Navy, and Knight of the Legion of Honour.	An improved apparatus for ventilating ships or vessels.

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1220	22nd May, 1856.	William Richelieu Hodges, of the city of Manchester, in the county of Lancaster, Merchant and Manufacturer.	Improvements in machinery or apparatus for manufacturing loop pile fabrics.
1221	„	William Churchill Dempsey, of No. 4, Liverpool Street, King's Cross, in the county of Middlesex.	A compound for removing all obstructions of the air passages.
1222	„	Alexandre Tolhausen, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	Improvements in clock-work, part of these improvements being applicable to other regulating purposes.
1223	„	Job Cutler, of Sparkbrook, Birmingham, in the county of Warwick, Gentleman.	Improvements in the manufacture of metallic pipes or tubes to be used for various purposes.
1224	„	Charles Barreswil, of Paris, in the empire of France, Chemist.	Improvements in gas meters.
1225	„	Germain Barruel, Chemist, of No. 24, Rue Hautefeuille, in the city of Paris.	Improvements in treating cotton seed.
1227	„	Charles Dewick, senr., of Stanley Street, Leicester, county of Leicester, Manufacturer.	Improvements in machines generally called "rib fram or rib machine," for producing fancy hosiery.
1228	„	James Howard, of Bedford, Ironfounder, and George Williams Baker, of Woburn, in the county of Bedford, Farm Bailiff to His Grace the Duke of Bedford.	Improvements in machinery or apparatus applicable to the tilling of land.
1229	23rd May, 1856.	Thomas Dawson Russum, of Tipton, in the county of Stafford, Engineer.	A new or improved break for steam engines and other motive power engines.
1230	„	Samuel Berrisford, of Portwood, near Stockport, in the county of Chester, and Enoch Wilkinson, of Oldham, in the county of Lancaster, Overlooker.	Certain improvements in looms for weaving.
1237	„	John Gedge, of No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agent.	Improvements in the application of distillation to gas from the furnaces of steam engines.
1240	„	John Dixon, of High Bridge, Newcastle-upon-Tyne, Engineer.	Improvemements in apparatus for measuring water and other liquids.
1241	„	Frederick Peter Dimpfel, of the city and county of Philadelphia, and state of Pennsylvania, one of the United States of America, Engineer.	Improvements in the construction of screw nuts for axle boxes and other purposes.
1242	24th May, 1856.	John de Cockkenifeck, of Cork, in the kingdom of Ireland, Belgian Inspector of the Royal Flax Improvement Society of Ireland.	An improved process and apparatus for preparing, refining, and filtering oils or fatty matters.
1243	„	Pierse Eustace Laurence Barron, of Coleshill Street, Eaton Square, in the county of Middlesex, Gentleman.	An improved process for coating metals for sheathing ships, and for other purposes, and in the means of attaching sheathing plates to ships or vessels.
1248	„	Frederick Peter Dimpfel, of the city and county of Philadelphia, in the state of Pennsylvania, one of the United States of America, Engineer.	Improvements in the construction of steam boilers and furnaces.
1251	26th May, 1856.	Andre Adolphe Gaget, of No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Gentleman.	Improvements in bookbinding.

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1256	26th May, 1856.	Bennett Johns Heywood, of Leicester Square, in the county of Middlesex, Gentleman.	Improvements in holders for leads, slate, and other marking materials.
1257	„	Frederick Charles Jeune, of Gresham Street, in the city of London, India Rubber Manufacturer.	An improved manufacture of floor cloth.
1258	„	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	An improvement applicable to quadrants and other instruments for taking the altitude of the sun or other objects.
1260	„	Samuel Newington, of Ticehurst, in the county of Sussex, Doctor of Medicine.	A preparation for destroying the fly or aphis, and other insects on hop and other plants.
1261	„	John Roberts, of Falmouth, Builder.	Improvements in machinery for moulding bricks and tiles.
1262	„	Thomas Charlton, of Brentwood, in the county of Essex, Engineer, and William Turnbull, of Rotherhithe, in the county of Surrey, Engineer.	Improvements in steam engines.
1266	27th May, 1856.	Frank Clarke Hills, of Deptford, in the county of Kent, Manufacturing Chemist.	Improvements in the purification of gas.
1268	„	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in reaping machines.
1269	„	Frederick Peter Dimpfel, of the city and county of Philadelphia, and state of Pennsylvania, one of the United States of America.	Improvements in constructng the permanent way of railroads.
1274	28th May, 1856.	Charles Herbert Holt, of the city of Manchester, in the county of Lancaster, Engineer.	Improvements in steam boilers, furnaces for the same, and apparatus connected therewith.
1277	„	Oldham Whittaker, of Hurst, near Ashton-under-Lyne, in the county of Lancaster, Manufacturer, and Cyrus Wallwork, of the same place, Manager.	Improvements in weaving figured fabrics.
1281	30th May, 1856.	William Carr Hutton, of Sheffield, in the county of York, Manufacturer.	Improvements in stamps or hammers worked by power.
1282	„	John Weems, of Johnstone, in the county of Renfrew, North Britain, and John Henderson, McCrindell, of Glasgow, in the county of Lanark, North Britain, Engineers.	Improvements in the manufacture and working of metals and their ores.
1284	„	John Harris Heal, of 196, Tottenham Court Road, in the county of Middlesex.	An improvement in hair and wool mattresses.
1286	31st May, 1856.	Francis Alton Calvert, of the city of Manchester, Engineer.	Improvements in machinery for opening, cleaning, and carding cotton, and other fibrous materials.
1290	„	Henry Bessemer, of 4, Queen Street Place, New Cannon Street, in the city of London.	Improvements in shaping, pressing, and rolling malleable iron and steel.
1293	„	William Gossage, of Widnes, in the county of Lancaster, Chemist.	Improvements in the manufacture of certain kinds of soap.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1296	2nd June, 1856.	Robert Blackwood, senior, of Kilmarnock, in the county of Ayr, North Britain, Worsted Spinner.	Improvements in machinery or apparatus for doubling yarns or threads.
1299	,,	Gustavus Gidley, of 14, Clinger Street, Hoxton, and William Christopher, of No. 2, Oak Villa, Pinner, Middlesex.	Reducing the bottle or imported india rubber to a transparent liquid state, so that it may be used as a transparent varnish or solution for mixing with colours.
1300	,,	Stephen Rossin Parkhurst, of the city and state of New York, United States of America.	Improvements in paddle wheels for steam boats and vessels.
1301	,,	Bennett Johns Heywood, of Leicester Square, in the county of Middlesex, Gentleman.	An improved construction of holder for leads and other marking materials.
1303	,,	Auguste Cadet, of No. 36, College Street North, Camden Town, Gentleman.	Improved stamp inking apparatus.
1304	,,	Augustin Marie Herland, of Paris, in the empire of France, Gentleman.	A new regulator pen holder.
1305	,,	Victor Jean Baptiste Mauban, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, Lamp Manufacturer.	Certain improvements in the manufacture of cans for holding oil and other liquids.
1306	,,	James Edward McConnell, of Wolverton, in the county of Buckingham, Civil Engineer.	Improvements in locomotive engines.
1307	,,	Delia Avery, of Essex Street, London -	Improvements in the construction of bonnets and other coverings for the head.
1308	,,	James Nasmyth, of Patricroft, in the county of Lancaster, Engineer, and James Brown, of Newport, in the county of Monmouth, Tin Plate Manufacturer.	Improvements in apparatus for the manufacture of tin plates.
1316	3rd Jun, 1856.	Christian Rudolph Wessel, of 25, Fitzroy Square, New Road, Gentleman, and Francis Xavier Kukla, of 3, Raven Row, Mile End Road, Doctor of Philosophy, both in the county of Middlesex.	A vapourless glow heat disseminator.
1317	,,	Joseph Bauzemont, of Paris, France -	Improvements in purifying turpentine.
1318	,,	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in oil cans employed in lubricating machinery.
1321	,,	Raymond Fletcher, of Derby, in the county of Derby, Painter, and Edwin Fletcher, of Monk Bretton, in the county of York, Paper Stainer.	Improvements in sweeping chimneys or other flues.
1322	,,	Montague Richard Leverson, Solicitor, of 12, St. Helens, London.	Improvements in tackle blocks.
1324	4th June, 1856.	Joseph Briggs, of Fleet Street, in the city of London, Gentleman.	Improvements in blocks and bricks for building.
1325	,,	Thomas Morris, of Bunney, in the county of Nottingham, Farmer.	An improved trap for beetles and other insects.
1326	,,	Frederick Albert Gatty, of Accrington, in the county of Lancaster, Manufacturing Chemist.	An instrument to be used in lighting and holding matches or vesta lights.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1328	4th June, 1856.	WILLIAM POTTS, of Handsworth, in the county of Stafford, Manufacturer.	Improvements in sepulchral monuments.
1329	,,	REUBEN BOYCE WIGLEY, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved method of attaching handles to coffins.
1330	,,	EDWARD HATTON, of Birmingham, in the county of Warwick, Metallic Bedstead Manufacturer.	Improvements in the manufacture of plain and ornamental metallic tubes.
1331	,,	DUNCAN MORRISON, of Bordesley Works, Birmingham.	Improvements in the manufacture of metallic bedsteads and other articles to sit or recline on.
1334	,,	JOHN CHRISTOPHERS, of Heavitree, in the county of Devon, formerly a Merchant.	Improvements in knives and forks whose handles are not metallic.
1335	,,	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in plating glass to render it reflective.
1337	,,	ALEXANDRE LOUIS GIBON, and ANDRÉ FRÖHLICH, of 39, Rue de l'Echiquier, Paris, and of No. 4, South Street, Finsbury, London.	Certain improvements in economizing fuel in the treatment of metals.
1338	5th June, 1856.	JOHN BETTS, of the Strand, in the county of Middlesex, Publisher.	Improvements in the preparation or manufacture of artificial spheres.
1339	,,	JOHN NORRIS, junior, of New York, in the United States of America, but at present residing in Birmingham, in the county of Warwick, Gentleman.	An improvement or improvements in the manufacture of the cutting tools employed in nail-making machines.
1341	,,	ANDREW EDMUND BRAE, of Leeds, in the county of York.	Improvements in apparatus for communicating signals from one part of a railway train to another.
13	,,	ARCHIBALD SINCLAIR, of Birmingham, in the county of Warwick, Engineer.	An improvement or improvements in wrought-iron pins for railway chair fastenings.
1343	,,	WILLIAM WATSON HEWITSON, of Headingley, near Leeds, and WILLIAM HAMOND BARTHOLOMEW, of 15, Brunswick Terrace, Leeds.	Improvements in the construction of the furnaces or fire boxes of tubular steam boilers.
1348	6th June, 1856.	ROBERT HARLOW, of Stockport, in the county of Lancaster, Brass Founder.	Improvements in the construction of water closets and in valves or taps for water closets and other purposes.
1349	,,	JAMES SOMERVILLE, of Glasgow, in the county of Lanark, North Britain, Manager.	Improvements in weaving.
1350	,,	CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent.	Improvements in machinery for extracting fibrous and other products from vegetable substances.
1352	,,	THOMAS CHAMBERS, junior, of Colkirk, Fakenham, in the county of Norfolk.	Improvements in agricultural drills.
1356	7th June, 1856.	ADAM STAMM, of Buenos Ayres, in South America, Engineer.	Improvements in presses for packing, parts of which improvements are also applicable to other presses.
1357	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved furnace for heating soldering irons.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1359	7th June, 1856.	William Denny Ruck, of Toppin's Wharf, and Victor Touche, of 14, Rathbone Place, Oxford Street, in the county of Middlesex.	Improvements in the manufacture of paper from fibres not hitherto applied to such purpose.
1360	,,	Samuel Dyer, of the city of Bristol, Ship Owner.	Improvements in reefing, furling, and setting the sails of ships and vessels, also for protecting such sails from wet and other abuses caused by ropes and rigging.
1361	9th June, 1856.	Alexander Robertson, of the city of Dublin, Surgical Instrument Maker.	An improved inkstand.
1365	,,	Robert Ferrier, of Jedburgh, in the county of Roxburgh, North Britain, Smith and Machine Maker.	Improvements in machinery or apparatus for sweeping and cleansing roads and streets.
1366	,,	James Holdin, of Manchester, in the county of Lancaster, Paper Manufacturer.	Certain improvements in machinery or apparatus for washing rags, which said improvements are also applicable for washing other materials.
1367	,,	James Holdin, of Manchester, in the county of Lancaster, Paper Manufacturer.	Certain improvements in machinery or apparatus for bowking, bleaching, dyeing, and washing textile fabrics or materials.
1368	,,	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in the construction of rails for railways, and in the mode of securing the ends of rails for railways.
1369	,,	John Ellis, of Heckmondwicke, in the county of York, Surgeon.	Improvements in the manufacture of muriate of ammonia and carbonate of ammonia, and in converting certain ingredients employed therein into an artificial manure.
1370	,,	Benjamin Smith and William Kalthoff, of Gemünd, near Cologne, in the kingdom of Prussia.	Improvements in economizing fuel in the locomotive and other steam engines.
1377	10th June, 1856.	Carlo Pietroni, of London Wall, in the city of London, Merchant.	Improvements in printing on cloth and other fabrics.
1378	,,	Perceval Moses Parsons, of Duke Street, Adelphi, in the county of Middlesex, Civil Engineer.	Certain improvements in the permanent way of railways.
1380	,,	Armand Eugène Preux, of Paris, in the empire of France.	Warming railway and other vehicles.
1382	,,	William Wilson, of Newcastle-upon-Tyne, Fur Cutter.	Improvements in machinery for pulling the hair from coney and other skins.
1383	11th June, 1856.	Henry Benson James, of Derby, in the county of Derbyshire, Engineer.	Improvements in moulding metallic castings.
1384	,,	William Henry Westwood, Thomas Wright, and Edward Wright, of Queen's Cross, Dudley, in the county of Worcester, Boiler and Gas-holder Makers and Engineers.	An improved stop or regulating valve.
1385	,,	William Bayliss, of Birmingham, in the county of Warwick, Tube Maker.	A new or improved manufacture of ornamental metallic tubes.
1386	,,	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in the manufacture of safety paper.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1389	12th June, 1856.	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in the manufacture of spoons, forks, and other similar articles, and in the machinery employed therein.
1394	,,	JAMES FAIRCLOUGH, of Liverpool, in the county of Lancaster, Upholsterer and Cabinet Maker.	An improved expander and contractor for dining tables.
1395	,,	JOHN STENHOUSE, of 15, Upper Barnsbury Street, Islington.	Improvements in the preparation of a decolourizing material suitable for the treatment of acid, alkaline, and neutral solutions.
1404	13th June, 1856.	SERVANS DE JONG, of 17, New Hampstead Road, in the county of Middlesex.	Improvements in warming and ventilating apartments and buildings.
1405	,,	WILLIAM JACOT, of Molyneux Place, Water Street, in Liverpool, in the county of Lancaster, Merchant.	Improvements in fire arms.
1406	,,	PETER ARMAND le Comte de FONTAINE-MOREAU, of 39, Rue de l'Echiquier, Paris, and of 4, South Street, Finsbury, London.	Certain improvements in shipbuilding.
1407	14th June, 1856.	HYPOLITTE MÈGE, Chemist, of Paris (empire of France).	Improvements in the manufacture of bread.
1410	,,	HECTOR GRAND DE CHATEAUNEUF, of Paris, in the empire of France, and of 45, Essex Street, Strand, London, Civil Engineer.	Improvements in apparatus for washing and bleaching clothes and other materials to be called "The steam washing lixiviateur."
1411	,,	PETER ARMAND le Comte de FONTAINE-MOREAU, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London, Agent for Patents of Invention.	Certain improvements in metallic packing for stuffing boxes and pistons.
1414	,,	WILLIAM SEED, of Preston, in the county of Lancaster, Machine Maker.	Certain improvements in "Lap machines," or apparatus used in the preparation of cotton and other fibrous substances for spinning.
1415	,,	EDWARD LINDNER, of the city and state of New York, United States of America.	Improvements in breech-loading fire arms.
1416	16th June, 1856.	JOSEPH SUTCLIFFE, of Rochdale, in the county of Lancaster, Foreman, and JAMES LEECH, of the same place, Cotton Spinner.	Improvements in machinery or apparatus for opening, cleaning, and preparing cotton, wool, and other fibrous substances.
1417	,,	CHARLES DESNOS, of Bedford Street, Strand, in the county of Middlesex.	Improvements in furnaces for consuming smoke.
1420	,,	JAMES BALL MANNIX, of Westminster, in the county of Middlesex.	A method of applying locomotive power to the working of inclines.
1426	17th June, 1856.	JOHN SADLER, of Birmingham, in the county of Warwick, Manufacturer, and JOSIAH GREEN, of Birmingham aforesaid, Manufacturer, and THOMAS DAVIS, of Birmingham aforesaid, Manufacturer.	Improvements in the manufacture of hinges.
1428	,,	JAMES EIVES, of 17, Cornhill, London.	An improved dynamometer.
1430	,,	FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex.	Improvements in percussion bomb shells.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1434	18th June, 1856.	Raymond Leopold de Berenger, of Enfield, in the county of Middlesex, Farmer.	Improvements in nose bags.
1435	„	Thomas Burton, of Padiham, near Burnley, in the county of Lancaster.	Improvements in machinery or apparatus for sizing and dressing warps, yarns, or threads.
1439	„	Charles Edmund Green, of 13, Blandford Green, Portman Square, in the county of Middlesex.	Improvements in tents, huts, and camp hospitals.
1440	„	Caleb Perry Sharpley, of Berry's Cottage, Chapel Street, Stockwell, Surrey.	Improvements in paddle wheels for propelling vessels.
1442	19th June, 1856.	William Hunt, of Tonge, near Middleton, in the county of Lancaster, Silk Manufacturer.	Certain improvements in machinery or apparatus for polishing and finishing yarns or threads.
1443	„	Francis Gybbon Spilsbury, of Chaudfontaine, in the kingdom of Belgium, and of 56, Stones End, Borough of Southwark, county of Surrey, Gentleman.	Making soda and alum.
1444	„	Guilford Lindsay Molesworth, of 13, Beaufort Buildings, Strand, London, in the county of Middlesex, Engineer.	An improved pendent child's cot.
1445	„	Theodore Schwartz, of New York, United States, but now of 67, Gracechurch Street, London.	An improved brick.
1446	„	George Pye, of Ipswich, in the county of Suffolk, Flax Manufacturer.	An improvement in preparing silk.
1448	„	William Parsons, of 18, Pratt Street, Old Lambeth, Manufacturing Engineer.	Improvements in washing and bleaching woven fabrics.
1449	„	Jacinto Dias Damazio, of Lisbon, in the kingdom of Portugal, Merchant.	A new process of making illuminating and heating gas by a double distillation without retort.
1450	20th June, 1856.	William Radley, of Hill Street, Peckham, in the county of Surrey, Surgeon.	Improvements in machinery, apparatus, materials, and processes for preparing and treating auriferous, argentiferous, and cupreous rocks, minerals, and alluviums, parts whereof are applicable to other purposes.
1452	„	John Talbot Pitman, of the American and European Patent Offices, 67, Gracechurch Street, in the city of London.	A new method of using the electric current or currents for telegraphic and other purposes.
1455	„	Jonathan Hague, of Ashton-under-Lyne, in the county of Lancaster, Overlooker.	Improvements in machinery or apparatus for manufacturing bands or cords for driving machinery and other purposes.
1456	„	Michael Thomas Crofton, of Leeds, in the county of York.	An apparatus for inking stamps used by bankers and others.
1461	21st June, 1856.	George Davies, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the county of Middlesex, Civil Engineer.	Improvements in apparatus for measuring and indicating the leakage of vessels.
1462	„	Elias Robison Handcock, of 16, North Frederick Street, Dublin, and Lower Belgrave Street, Westminster, Esquire.	Certain improvements in mechanism connected with engines to be worked by steam or other motive power.
1464	„	Charles Minne and Amand Colson, of Brussels, Civil Engineers.	Improvements in making bread.

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1465	23rd June, 1856.	WILLIAM VALENTINE MILLER, of Portsmouth, in the county of Southampton, Paymaster in Her Majesty's Navy.	Improvements in propelling vessels.
1466	„	JEAN CHARLES LEFEVRE LACROIX, Merchant of Huitrégiville (Marne), in the empire of France.	Filthing and shaving the merino, plain satin, and muslin, of wool.
1470	„	JAMES ATKINSON LONGRIDGE, of 17, Fludyer Street, Westminster, in the county of Middlesex.	Improvements in obtaining and applying motive power for the conveyance of minerals, pumping, and other purposes in mines in which motive power is required.
1472	„	JOHN MILLER, of Drogheda, Ireland -	Improvements in furnaces for more effectually consuming the smoke and economizing the fuel employed therein.
1476	„	CHARLES MILLS, of 8, High Street, Camden Town, in the county of Middlesex.	An improvement in the hammer rails of pianofortes.
1478	24th June, 1856.	JOHN TAYLOR, of Hackney Road, in the county of Middlesex.	An improved vessel for containing chemicals for the generation of disinfecting gases.
1481	„	JOSEPH HARRISON, of Blackburn, Machinist, and CHRISTOPHER GELDERD, of Low Moor, Clitheroe, Manager, both in the county of Lancaster.	Improvements in machines for warping and sizing or otherwise preparing yarns or threads for weaving.
1483	„	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in railway breaks.
1484	„	LEONARD BOWER, of Birmingham, in the county of Warwick, Manufacturer.	An improvement or improvements in the manufacture of bolts, rivets, spikes, screw blanks, nuts for screws, and washers.
1487	„	JULES ETIENNE LAFOND, of Belleville, near Paris, in France, Engineer, and 4, South Street, Finsbury, London.	Improvements in lighting.
1489	25th June 1856.	CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and 29, Boulevart St. Martin, Paris, Patent Agent.	Improvements in engraving glass and crystals.
1490	„	HENRICH LUDWIG BUFF, of 9, Fitzroy Square, in the county of Middlesex, and FREDERIC VERSMANN, of 3, Forest Place, Kingsland Road, in the same county, Chemists.	An improvement in purifying and softening water.
1492	„	ALEXANDER KEILLER, of Dundee, in the county of Forfar, North Britain, Confectioner.	Improvements in the manufacture of articles of confectionery.
1498	„	JAMES PLATT, of Oldham, in the county of Lancaster, Machine Maker, and JOHN WHITEHEAD, of the same place, Manager.	Improvements in machinery or apparatus for making bricks.
1499	„	JAMES KENYON, of Bury, in the county of Lancaster, and RICHARD KENYON, of the same place, Manufacturers.	An improved fabric, to be used in printing and other similar purposes, and a method of joining or connecting the ends of the same.
1500	„	LOUIS CORNIDES, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the county of Middlesex.	Improvements in ornamenting metal, wood, leather, textile fabrics, and other substances.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1502	26th June, 1856.	JOHN GRATRIX, of Preston, in the county of Lancaster, and ALFRED KNIGHT, of Birmingham, in the county of Warwick, Machinists.	Improvements in apparatus for registering a permanent record of the speed of steam or other engines, which apparatus is also applicable to watchmen's registers and other similar purposes.
1504	,,	DAVID WHITE, of No. 3, Winchester Place, in the parish of St. James, Clerkenwell, in the county of Middlesex, Surveyor.	Improved apparatus for the more perfect combustion of gases for preventing their escape, and the unnecessary radiation of heat therefrom.
1505	,,	DAVID MACDONALD, of Glasgow, in the county of Lanark, North Britain, Manufacturer.	Improvements in printing textile fabrics and other surfaces.
1506	,,	JOHN PORTUS, of Morpeth, in the colony of New South Wales, Engineer.	Improvements in wheeled carriages.
1507	,,	JAMES AIKMAN, of Paisley, in the county of Renfrew, North Britain, Scourer and Shawl Finisher.	Improvements in the treatment, cleansing, or finishing of textile fabrics.
1509	,,	JOSEPH JAMES FOOT, of Spital Square, in the county of Middlesex.	Improvements in weaving narrow fabrics.
1510	26th June, 1856.	BASILIO SCARIANO and RAPHAËL PAUL DE VILLAMIL, both of No. 10, Rue Lepelletier, in the city of Paris, Gentleman.	Improvements in apparatus for measuring and setting out the forms of garments.
1511	,,	WILLIAM HUDSON, of Burnley, in the county of Lancaster, Machinist, and CHRISTOPHER CATLOW, of Clitheroe, in the same county, Overlooker.	Certain improvements in looms for weaving.
1514	27th June, 1856.	CHARLES AUGUSTUS PRELLER, of Lant Street, in the borough of Southwark, Leather Manufacturer.	Improvements in unhairing and preparing skins in tanning.
1515	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in the production of carbonate of barytes.
1517	,,	EDWARD BURNAND, of Moudon, Canton du Vaud, Switzerland.	An improvement in the manufacture of fire-arms.
1518	28th June, 1856.	GEORGE HENRY ORMEROD, of Newchurch, in the parish of Whalley, in the county of Lancaster, Manufacturer.	Improvements in machinery for brushing and cleaning cotton fabrics.
1522	,,	BEVAN GEORGE SLOPER, of Kentish Town, in the county of Middlesex, Gentleman.	Improvements in freezing, refrigerating, and cooling, and in the machinery employed therein.
1525	,,	WILLIAM MCADAM, of Glasgow, in the county of Lanark, Manufacturer.	Improvements in the manufacture of articles of clay and such like plastic substances.
1530	30th June, 1856.	SAMUEL JABEZ GOODE, of Aston, near Birmingham, in the county of Warwick, Machinist.	Improvements in gas stoves, and the application of the same to the ventilation of buildings.
1534	,,	CORNELIUS MORIARTY, of 22, Nelson Street, Greenwich, in the county of Kent.	Improvements in the construction of tube brushes used in cleaning the tubes of marine, locomotive, and all kinds of multitubular boilers.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 5th July, 1859, and each bearing that date.

No. 24,607. DEMAS S. BARNES, of New York, N. Y., for an "Improved furniture caster."

"What I claim is, the spherical roller B, with its axle running in the framework C, C, (Figs. 2 and 3,) in combination with the two convex surfaces E and F, (Fig. 2,) or with the convex and concave surfaces E and F, (Fig. 3,) so as to enable the same readily to revolve on a vertical axis, the whole being constructed, combined, and enclosed in the tube or case A, substantially as herein described, and for the purposes herein set forth."

No. 24,608. BENJN. BILLINGS, of Macedon, N. Y., for an "Improved water wheel."

"What I claim is, the conical crown A, and conical wheel B, constructed and combined, substantially in the manner, and for the purposes herein specified."

No. 24,609. LEWIS BISHOP, of Talladega, Ala., for an "Improvement in cotton harvesters."

"I claim the endless picker chains F, placed on the cylinder E, in connection with the brush cylinder D, the above parts being attached to a cart, or to a box, or receptacle A, mounted on wheels, and the whole arranged to operate as and for the purpose set forth."

No. 24,610. SNOWBALL BOTTERILL, of Westmoreland, N. Y., for an "Improvement in hook for whiffle-trees."

"I claim the combination and arrangement of hooks D, D, and spring button E, in the manner and for the purposes herein above set forth."

No. 24,611. HENRY W. BOWEN, of Providence, R.I., for an "Improved wind engine."

"I claim the frame D, provided with sails E, and attached to the shaft C, in connection with the bent lever G, connected with the sails by the rods F, and arms *b*, the link H, spring rod I, and the weight J, and spring K, or their equivalents, the whole being arranged, substantially as and for the purpose set forth."

No. 24,612. ROBT. BROWN, of Stroudsburg, Pa., for an "Improved washing machine."

"I claim the arrangement in the trough E, of the chambers *s*, *s*, and transverse strips *h*, *h*, with the bars *a*, *a*, when the chambers stand behind the strips, and the strips are placed in such relation to the bars *a*, *a*, that they will pass between them, and thus, at the same time, press and rub the clothes, the several parts being constructed and operating substantially in the manner and for the purpose set forth."

No. 24,613. THOS. B. BUTLER, of Norwalk, Conn., for an "Improvement in harvesting machines."

"I claim the employment of the cams and guides S, in Fig. 2, for the purpose of giving a forward and backward motion to the cutter bar and cutters, substantially as set forth."

No. 24,614. W. I. CANTELO, of Burlington, N. J., for an "Improved method of reducing wood, &c., to sawdust or finer grains."

"I claim, reducing glutinous, fibrous, and other tough materials to powder by placing the ends of blocks of the same, opposite to and in contact with each other, and presenting them simultaneously, and at the point of junction to the edge of a circular or reciprocating saw, with the aid of the appliances herein described, or any equivalent to the same."

No. 24,615. MICHEL CELERIER, of Philadelphia, Pa., for an "Improvement in machinery for webbing single strands of thread."

"I claim the combination of the pulley E, the sliding car D, D, D, the fork H, H, and the eye-piece L, arranged and operating substantially as above described, for preparing silk for making twist."

No. 24,616. CHAS. CLARENI, of New York, N. Y., for an "Improved wrought nail machine."

"What I claim is, first, the combination of the top and side hammers and vibratory anvil, substantially as herein described, so as to form two or more nails at a time, without turning the rod as above specified. I also claim the apparatus for connecting the driving shaft with the top hammer, by which it receives its motion in a proper manner, as specified. I also claim the connections of the side hammers, with the driving shaft, to produce the requisite motions thereof, and allow said hammers to be raised and lowered, as and for the purposes set forth. I also claim the arrangement and operation of the cutter, as described for severing the nail from the rod."

No. 24,617. ISAAC COOK and JOHN T. BEVER, of Haynesville, Mo., for an "Improvement in ploughs."

"What we claim, is, the combination and arrangement of the sharp-edged land-side wheel D, E, with a reversible double-pointed mould board A, B, C, which has no land-side bars, substantially as and for the purposes herein set forth."

No. 24,618. GEO. H. CORLISS, of Providence, R.I., for an "Improvement in steam engines."

"What I claim, is, imparting to the liberated slide valves of steam engines, their closing movements by springs, so connected with the valve gear, that whilst these springs impart the same initial force to the valves at every operation, the expansive force which these springs exert varies with every change in the range of movement given to the valves. I also claim, imparting to the liberated slide valves of steam engines, their closing movements by springs combined with a curved moving support, in such manner that the spring applies itself tangentially to the said support, and that the effective length of the spring varies with the tensive force which it exerts.

No. 24,619. B. M. DORR, of Kenawee, Ill., for an "Improved method of opening and closing farm gates."

"What I claim is, the arrangement of the pinion *i*, the toothed racks *h*, h^1, and the levers *d*, d^1, to operate in combination with the slotted rods *k*, k^1, and the crank levers E, E^1, for the purpose of opening and closing the gate A, A^1, substantially as herein described.

No. 24,620. EPES E. ELLERY and JOSEPH F. ELLERY, of New York, N.Y., for an "Improvement in waterproof paints."

"What we claim, is, the composition prepared and composed of the materials as described, in the proportions set forth, for the purpose of making waterproof paint."

No. 24,621. H. C. EMERY, of Lincoln, Ohio, for an "Improvement in mills for crushing cane."

"I claim arranging the adjustable shafts of the rollers in slide bearings at top and bottom, operating them in a rectilinear frame in a direct manner, for giving a wedge pressure, providing them near their top with flanges and a groove, and a bevel on their bottoms from the periphery toward the shafts, substantially as described, the several parts standing in the relation to each other herein specified for the purpose set forth."

No. 24,622. A. L. FLEURY, of Baltimore, Md., for an "Improvement in lamps."

"I claim, 1st, the quicklime cones (*c*, *c*), or their equivalents, arranged substantially as herein described for the pur-

poses set forth. 2nd, in combination with the above, I claim the flanged cap (n, n^1, n^{11}), substantially as herein described."

No. 24,623. Reuben Fretz, of Montville, Ohio, for an "Improved machine for finishing the exterior of rims of carriage wheels."

"I claim combining in the arm that gauges the plane, devices for varying the height of the radial arm, with the devices for varying its length, so as to enable the operator to dress a wheel straight or square across the edge, substantially as described. I claim making the arm or bar k, which guides the plane in the arc of a circle to vibrate in the stock so as to adjust and fasten it in the position desired."

No. 24,624. P. W. Gates, D. R. Fraser, and Thos. Chalmers, of Chicago, Ill., for an "Improvement in cut-off gear for steam engines."

"What we claim, is, the combination of the two levers D, D^1, and their dogs E, E^1, the lever or levers C, and its or their teeth b, b^1, and the eccentric curved plate or plates H, the whole applied to the stem or stems of the valve or valves, to operate substantially as herein set forth. And we also claim, in combination with the said levers teeth and dogs, and the eccentric curved plate or plates of the arm j, on the valve stem, and the spring or stationary curved surface k, applied and operating together, substantially as and for the purpose herein specified."

No. 24,625. Ira Glynn and Mikel Borowsky, of Placerville, Cal., for an "Improved machine for cutting ends of billiard cues true."

"What we claim as our invention is, the application of the reversed A knife or cutter E and the spring jaws C, C, for holding the cue so as it can be cut off square for the leather; these jaws will open or close to suit the size of the cues, the whole as set forth in our specification."

No. 24,626. Geo. P. Gordon, of New York, N. Y., for a "Printing press."

"I claim, 1st, taking the sheet from the feed-board by grippers, or their equivalents, and presenting it directly to or upon the form of types, thence conveying it to the place of impression, so that it may be printed. 2nd, the combination of a reciprocating bed with a set of sheet-receiving grippers, so that the movements of the bed may control the action of the grippers, in order that the sheet may be taken from the place of feeding to the place of printing by such grippers. 3rd, the combination of a vibrating platen, having a stationary or fixed axis upon which to vibrate, with a reciprocating bed. 4th, the combination of a set of sheet-piling grippers, which will peel or take the printed sheet from the face of the type and pile it on its place of deposit, with a reciprocating bed, operating substantially as described. 5th, by use of automatic grippers piling the sheets directly before or in front of and under the eye of the operator, so that he may at once detect any imperfection in the impression. 6th, the combination, in one and the same machine, of a set of grippers to take the sheet and carry it to the place of printing with another set of grippers to take the sheet from the form and pile it, substantially as described. 7th, the arrangement and construction of a chase, as described, in combination with the piling grippers, operating substantially as set forth. 8th, the giving a reciprocating vibratory motion to a bed or carriage, allowing the necessary intervals of time for the purpose of receiving the sheet or the impression either or both of them by means of the cam forming a part of the bed, the cranked shaft, the vibrating arm, and the connecting rod, or their equivalents, all of which is herein fully described and set forth."

No. 24,627. Wm. Gorman, of New York, N. Y., for an "Improved paddle wheel."

"I claim the sliding paddles or floats D, placed between the traverse bars a of the arms C, C, of the wheel, and arranged with the catches F and stationary cam G, or their equivalents, to operate as and for the purpose set forth."

No. 24,628. S. N. Gragg, of Shelburne Falls, Mass., for an "Improvement in corn huskers."

"What I claim is, the curved or convex rest E, in combination with the reciprocating knife k, arranged and operating as described, for the purpose herein-before set forth."

No. 24,629. Wm. Grout, of Worcester, Mass., for an "Improvement in sewing machines."

"I claim, first, the arrangement of the feeding bar, needle, and looper in the manner described, so that the movement of the cloth shall aid in extending the looper thread, and in tightening the needle thread, and this when the needle is out of the cloth. Second, the arrangement of the looper and forceps, as described, so that the forceps shall draw the loop of the needle thread across the path of the looper and in line with the movement of the cloth. Third, the combination of the needle and looper, when arranged as described, so that both shall reciprocate in straight lines, and also so that by merely changing the length of the looper a single or double stitch may be formed in the manner described."

No. 24,630. Benjn. A. Grover, of Mimence, Ill., for an "Improvement in abdominal supporters."

"I claim, 1st, constructing an adjustable spring steel frame of the form described, by combining, arranging, and securing together a series of spring bars, substantially in the manner and for the purpose described. 2d, I claim covering the concave portion of said frame with a canvas or other cloth Z, whose edge or border is gathered and drawn together over the outside edges of the said spring frame by an india-rubber or other elastic cord c, so as to give the covering portion of said canvas or other cloth the character of an elastic cushion, no matter what may be the extent of the contraction or expansion of the spring frame, as before described. 3rd, I also claim attaching the upper and lower straps P, P^1, which respectively branch upward and downward from the band b of the main strap S, O, at the points of the spring frame, and in the relation to each other and the centre or main straps S, O, described and represented, so as to give an upward pressure to the spring frame, and for other purposes set forth."

No. 24,631. Elijah Harris, of Princeton, Ill., for an "Improvement in horse rakes."

"What I claim is, the lever D with the arms d, d, and the projection or finger c, in combination with the stop a, substantially as set forth and specified."

No. 24,632. W. Hartsfield, of Thomaston, Ga., for an "Improved door fastening."

"What I claim is, the arrangement of the bar C, which is attached to the inside of a door, to operate in combination with the staple D, and with the bolt E, and spring d, substantially as and for the purpose described."

No. 24,633. Henry Hayes, of New York, N.Y., for an "Improved machine for boring."

"What I claim is, the arrangement of the adjustable head blocks c, carrying the spindles d of the boring tools, when combined with the spring tightening pulley o, in the manner and for the purposes specified."

No. 24,634. John Henderson, of Horseheads, N.Y., for an "Improvement in stoves."

"I claim the construction and arrangement of the ventilating passages i, i, and concealed flues m, m, the former having their origin in the heating chamber K, and terminating at or near the top of the oven, and the latter starting from the lower part thereof, and terminating in the flue G, whereby external air is admitted, and currents thereof passed through the oven, substantially as and for the purposes specified."

No. 24,635. Isaac C. Shuler, of Amsterdam, N.Y., for an "Improvement in the construction of sheet metal coffins."

"I claim, first, the arrangement of stiffening the lower part of a sheet metal coffin, by locking together the scrolled edges of the sides and bottom, forming a firm rim, when they are soldered together, substantially as described. Second, I am aware that I have before claimed stiffening the base of a sheet metal coffin, by filling with molten metal, the surplus diameter of a tray, in which the sides were set. I claim the sheet metal rim c, on the outside of the walls, as a means of stiffening the base, either with or without a filling of molten metal, according to the size of the coffin. Third, I am aware that I have claimed stiffening the base of a sheet metal coffin, by means of a tray with scrolled edges fixed to the inside base. I claim the rim d of sheet metal, single or scrolled, forming an inside chamber, which may be filled with molten metal or left hollow, according to the size of the coffin. Fourth, I am aware that I have claimed an entire cast metal frame resting on the flanged upper edge of the walls of a sheet metal coffin. I claim a cast metal rim f, with a deep groove on the underside, which receives, straightens, and stiffens the walls, and which serve to support the lids. Fifth, I am aware that I have claimed a certain arrangement of ribs, what I now claim is, a different arrangement, namely, setting the pillars or braces x, at the corners and around the body of the coffin, between the inward projections of the rim d and f, which give them an extended purchase, for the purpose of stiffening the walls, substantially as described. I also claim the peculiar braces k, to prevent the lateral racking of the bottom. Sixth, I

claim the arrangement of pressing inverted beads or recesses in any required number, in the sheet metal of the lid, walls, and bottom of a metal coffin on the inside, and on the outside of the same, which may be filled with molten metal in the large size, and left empty in the small size coffins, for the purpose of securing, by a peculiar mode of manufacture, of a level surface between the indented parts described. Seventh, the arrangement of fastening firmly on the underside, near the outer edge of the air-tight lid of a sheet metal coffin, a cast metal rim, or its equivalent, for the purpose of strengthening this lead, and also for fitting into the groove in the rim F, on the upper edge of the walls of the coffin, substantially as described. Eighth, the arrangement of fastening around the face-window, on the underside of the air-tight lid of a sheet metal coffin, a cast metal sash, or rim *m*, which receives and supports the face glass, when it is cemented in its proper place. Ninth, I claim the arrangement of fastening, permanently, on the underside, near the outer edge of the sheet metal blind *m*, which covers the glass in the face window of a sheet metal coffin, a cast metal rim O, or its equivalent, for the purpose of strengthening and furnishing a means of securing the same to the outer lid, which covers the air-tight joint, substantially as described. Tenth, I am aware of having claimed various modes of covering the air-tight joint of the lid of a sheet metal coffin, both bisected and entire. I now claim the arrangement described of two entire, distinct, separate sheet metal lids."

No. 24,636. G. W. Smith, of Hartford, Conn., for an "Improved butter cooler."

"I claim the arrangement of the air-tight ice chamber D, in combination with the butter plate A, and with the cup B, substantially as and for the purpose set forth."

No. 24,637. Daniel Hess, of Uniontown, Iowa, for an "Improved device for heating steam boilers."

"I claim, 1st, the combination with a steam boiler of the tight external casing A, and fan H, for the purpose of producing currents of air around the boiler, substantially as set forth. 2nd, in combination with the subject of the 1st claim, the stove D, provided with a smoke pipe E, through which the products of combustion pass, while the heat passes into the casing, substantially as set forth."

No. 24,638. Henry Hoffman, of New York, N.Y., for an "Improved automatic fan."

"What I do claim is, the arrangement of the rock shaft D, arms F, F^1, bells *f*, f^1, and rollers G, or their equivalents, to operate in combination with the fan carrier H, substantially as and for the purpose specified."

No. 24,639. Isaac B. Howe, of Northfield, Vt., for an "Improvement in railroad chairs."

"What I claim is, the one lip chair secured by the single bolt, in combination with the permanent fishing piece, arranged and operating in the manner set forth, for the purpose specified."

No. 24,640. Julius C. Hurd and Moses A. Johnson, of Dorchester, Mass., for an "Improvement in manufacturing wadding."

"What we claim as a new article of manufacture is, the within-described wadding, having its two surfaces felted, as set forth, for the purpose specified."

No. 24,641. Obed Hussey, of Baltimore, Md., for an "Improvement in mowing machines."

"What I claim is, in combination with the ordinary apparatus fixed to the extreme end of the finger beam, and called a track clearer, a similar apparatus at the opposite or frame end of said beam, when so arranged as to sweep the cut grass towards the centre of the swath, and leave it in a windrow behind the machine, substantially as herein described."

No. 24,642. Joshua Irving, of New York, N. Y., for an "Improved machine for turning ovals."

"I claim the sliding disk and driving rim combined with the centre mandrel and slides, substantially as and for the purposes set forth."

No. 24,643. Joseph Jorey, of Rocky Hill, Conn., for an "Improved horse-shoe."

"What I claim, therefore, is, the combination of the plate B, corks C, shoe A, substantially in the manner as and for the purpose described."

No. 24,644. Philip Kribs, of Jefferson Furnace, Pa., for an "Improvement in cultivators."

"I claim the arrangement of the bars A, B, C, metal frame G, handles H, shanks E^1, teeth E, bar I, and shafts F, as described, for the purposes set forth."

No. 24,645. Philip Lebezetter, of Lancaster, Pa., for an "Improvement in horse rakes."

"What I claim is, the double axle A, B, brace and sliding bands C, hinged braces E, slot, hook, and staple F×, binding screw D, hinged rod and beam G and H, when these parts are combined substantially in the manner and for the purpose specified."

No. 24,646. Lewis Lillie, of Troy, N. Y., for an Improvement in vault doors and cast-iron safes."

"I claim the arrangement and combination of a series of pipes or tubes (*a*, *b*, and *c*,) and the filling of the same with cast steel hardened, or with refined cast iron, as and for the purposes herein described."

No. 24,647. Lewis Lillie, of Troy, N.Y., for an "Improved door knob bolt."

"I claim the knob bolt or spindle (B), constructed in the manner as and for the purposes herein substantially described. I further claim the switch (D) and the nut (C), arranged and fastened to and upon the knob bolt or spindle (D) in the manner as herein set forth."

No. 24,648. Matthius Ludlum, of Fair Haven, Vt., for an "Improvement in trunks."

"I claim the combination with a watertight shell or body part (A) to a trunk or box, having ordinary or any other suitable inner and outer lids (C and D) of a valvular spring borne lid (B) of water-tight construction, and arranged to occupy an intermediate position, in relation to the inner and outer or ordinary lids (C and D) essentially as and for the purpose or purposes herein set forth."

No. 24,649. Thos. P. Marshall, of Trenton, N.J., for an "Improvement in buckles."

"What I claim is, a buckle constructed of a sliding case A, with the platform *d*, and slot B, in combination with the nose *i*, and otherwise arranged as herein set forth."

No. 24,650. Jarrett Megaw, of Wilmington, Del., for an "Improvement in rotary pumps."

"What I claim is, combining the water packing chambers formed around the axis or shaft, between the suction pipe and stuffing boxes, with the ascending main or discharging pipe of the pump, substantially as and for the purposes set forth."

No. 24,651. Richd. L. Mills and Paul Carpenter, of Lancaster, Ohio, for an "Improvement in R. R. car couplings."

"We claim the arrangement of the sliding frame K and vibrating frame J, in combination with the flat locking key L, the whole being constructed and arranged for joint operation, substantially as set forth."

No. 24,652. Z. N. Morrel, of Cameron, Texas, for an "Improvement in machines for planting cotton seed."

"I claim, 1st, the arrangement and combination of the one side wheel D, cylinder F, *e*, stirrer E, *c*, gear wheels *a*, *b*, mortised beam A, *d*, *f*, share H, *h*, and book I, substantially as and for the purpose herein described. 2nd, the arrangement of the V-shaped fender with the harrow teeth, and with the devices included on the 1st claim, substantially as and for the purpose set forth."

No. 24,653. A. A. Moss, of Philadelphia, Pa., for an "Improved elastic friction roller."

"I claim the elastic friction apparatus described, the same consisting of the ball or sphere (A), spring (B), and case or hole (C), constructed, arranged, and combined together, in relation to each other, in the manner set forth and described, irrespectively of the plate (*e*), or the conical form of the spiral spring (B.)"

No. 24,654. J. W. Naramore, of Derby, Conn., for an "Improved pin-sticking machine."

"I claim, 1st, operating the driver or drivers and the crimping and feeding apparatus, or any portion of the same, by means of a clutch or clutches, carried by a constantly rotating shaft, and thrown into gear, therewith to effect such

operation by the action of the sliding bed or pin carriage, as the latter after having received the pins completes its movement to the necessary position for the sticking operation, substantially as herein described. Second, the combination with a single reciprocating sliding bed or pin carriage, and a single conductor, of two drivers and two sets of crimping and paper feeding apparatus, arranged on opposite sides of the mouth of the conductor, in such a manner that the said bed or carriage, in every movement, in either direction, is caused to be filled with pins from the conductor, and to convey them to a proper position, relatively to one or the other of the drivers, to be thereby driven into the paper supplied and crimped by its respective feeding and crimping apparatus, substantially as herein described, whereby I effect a saving of the time heretofore lost in running the bed twice under the conductor to be once filled. Third, effecting the combination between the sliding bed or carriage, and a clutch carried by a constantly revolving shaft to operate a driver, a crimper, and a feeding apparatus, or either of them, by means of a toothed lever R and R^1, a spring T, or notched slide P or P^1, plate V or v^1, with an inclined edge and a shifting tooth i, the whole applied and operating substantially as herein described, to permit one and only one revolution of the loose portion of the clutch, and hence but a single operation of the part or parts driven by it."

No. 24,655. A. Newbury and B. Newbury, of Windham Centre, N. Y., for an "Improvement in hand printing presses."

"We claim the arrangement and combination of the slotted frame E, adjustable bar G, platen F, roller frame K, and rotating into table L, substantially as and for the purposes herein shown and described."

No. 24,656. Ellis Nordyke and Addison H. Nordyke, of Richmond, Ind., for an "Improvement in flour bolts."

"We claim the band c encircling the shaft M, in combination with the spring catches S, S, S, for the purpose described. Second, we also claim making the movable slide H, F, in two parts jointed, substantially as and for the purpose set forth."

No. 24,657. Anthony Overocker, of McHenry, Ill., for an "Improvement in clover hullers."

"I claim the combination of the concave C, and cylinder E, with the adjustable sliding door F, the several parts being arranged and constructed, substantially in the manner and for the purpose described."

No. 24,658. Andrew Patterson, of Birmingham, Pa., for an "Improvement in manufacture of hoes."

"I claim the combination of the two jaws d, d, which clasp the blade with the head b, and the blade, arranged and constructed substantially as set forth."

No. 24,659. John Percival, of Auburn, N. Y., for an ""Improvement in piano hammers."

"I claim constructing and arranging the cushion forming the elastic covering to the hammer head, substantially as described, for the purpose as set forth."

No. 24,660. Albert Potts, of Philadelphia, Pa., for an "Improvement in setting gas meters in the walls of buildings."

"I claim the manner herein described of adjusting a gas meter to an auxiliary case of the character substantially as specified, so that the meter is applied to a building in a neat and secure manner, and at the same time the examination of the same, to ascertain its condition or the amount of gas consumed from the outside of the building, is rendered practicable and convenient, all as and for the purposes herein set forth."

No. 24,661. Thos. B. Quigley, of Galion, Ohio, for an "Improvement in the mode of regulating the exhaust in locomotive engines."

"I claim, first, the sliding throttle valves g and f, when combined with the exhaust pipes of a locomotive engine, substantially in the manner and for the purpose specified. Secondly, the sliding box O, with apertures r, in combination with the chest b, as herein set forth."

No. 24,662. D. B. Bay, of Galena, Ill., for an "Apparatus for punching stereotype plates."

"What I claim is, the arrangement of stamping bars D, upon A, B, when provided with the characters to be printed or stereotyped, so that they will all work to a common centre, and imprint the character upon the face of the type metal, substantially in the manner and for the purposes herein set forth. I also claim arranging upon the end of bar F, knives a, b, for the purposes herein specified."

No. 24,663. John A. Reed, of Jersey City, N. J., for an "Improvement in trunnion box-lining for oscillating engines."

"What I claim is, the employment, in combination with the conical trunnions, of slit cap like bearings D, D, applied to the boxes with screws and nuts, or other equivalent means of forcing them up towards the sides of the cylinder, substantially as herein described."

No. 24,664. Geo. P. Sanborn and Willis Mansfield, of New Haven, Conn., for an "Improvement in elastic railroad frogs."

"We claim as of our invention an elastic frog, constructed of layers of plate metal and wood, substantially in the manner specified, and either with or without layers of vulcanized rubber. Also we claim constructing an elastic frog with end slots suitable to receive the lower flange and neck of a rail, as specified, whereby the frog may be kept in alignment as described."

No. 24,665. Thaddeus Selleck, of Greenwich, Conn,, for an "Improvement in protecting surfaces of articles of iron."

"What I claim as a new article of manufacture is a horse-shoe, or other article, as indicated herein, made by uniting Franklinite pig metal with the surface of iron, as set forth."

No. 24,666. Horace Smith and D. B. Wesson, of Springfield, Mass., for an "Improvement in revolving fire-arms."

"We claim the wedge n, on the top of the nose of the hammer, the spring m, and stop bolt k, when combined for the purpose and operating in the manner as herein described."

No. 24,667. James Speer, of Philadelphia, Pa., for an "Improved ironing pan for ranges or stoves."

"What I claim is, an ironing pan, constructed with a perforated bottom, in the manner and for the purpose described."

No. 24,668. Wm. Stearns, of Manchester, N. H., for an improvement in picker motion for power looms."

"I claim extending the picker staff down through and below the rocker and through the rail, as described. I claim the rocker D, made to receive the staff, in the way and manner described. And, in combination with the rocker D, I claim the hook G or G^1, whether made separate or cast on the rocker, for the purposes set forth. I claim making the picker staff adjustable in the rocker in the manner described, or in some equivalent manner. I claim making the stud surrounded by the coiled spring P smaller in the middle than at the ends, to allow the spring to contract in diameter in the middle, as it is drawn in working. I also claim making that portion of the stud surrounded by the stationary end of the coiled spring permanent or stationary, and that portion surrounded by the moving end of the spring to revolve, to facilitate the working of the spring."

No. 24,669. Joseph W. Strange, of Bangor, Me., for an "Improvement in scales for weighing."

"I claim, 1st, arranging the beam in such a manner that the several indications or scales marked on the same can be brought before the eye of the operator by turning the beam, substantially as described. 2nd, the arrangement of the socket C so that its end forms the common index pointer C for the several indications marked on the sides of the beam, substantially as and for the purpose specified."

No. 24,670. Wm. Stratton, of Philadelphia, Pa., for an "Improvement in gas retorts."

"What I claim is, the employment of an upright partition B dividing the D retort into chambers, in the manner and for the purposes substantially as set forth in the foregoing specifications."

No. 24,671. John Stock, of New York, N.Y., for an "Improvement in photographic cameras."

"I claim, first, the arrangement of the front plate of a camera, to which the lens tube is attached in such a manner

that the centre of the tube may be moved in any desired position, for the purpose as described, and in the manner substantially as specified. Secondly, I claim the arrangement of the plates 5 and 8, for the purpose described. Thirdly, I claim attaching the ground-glass holder to the end of the camera, and the manner of supporting the weight of the same, substantially as specified."

No. 24,672. ELAM STOCKBRIDGE, of Houston, Texas, for an "Improvement in cotton and hay presses."

"What I claim is, the arrangement, in combination with the horizontal ropes or chains a^1, a^1, vertical windlass G, horizontal toggles E, E, and horizontal follower C, of the auxiliary horizontal ropes or chains a^1, a^1, and h, in the manner and for the purposes herein set forth."

No. 24,673. JOSIAH STUBBS, of Dublin, Ind., for an "Improved churn."

"What I claim is, operating the butterfly wings d and d with the single crank k, confined to one side of the cylinder (g^1) being made to cross the body of the cylinder obliquely to effect this movement, in the manner and for the purpose set forth."

No. 24,674. GUISEPPE TAGLIABUE, of New York, N. Y., for an "Improvement in mercurial barometers."

"What I claim is, the external slotted sleeve gauge D, applied in combination with the cistern or lower limb of the barometer, and with the adjustable scale, substantially as and for the purposes herein described."

No. 24,675. LOUIS TREGRE, of the parish of St John the Baptist, La., for an "Improvement in bagasse furnace."

"What I claim is, the employment of a double feeder, arranged substantially as described, with openings through the blades of the lower feeder to allow the hot air from the furnace to pass from the lower feeder to the upper feeder, for the purpose set forth. And I also claim arranging between the two feeders an intermediate chamber, to receive and retain the bagasse as it passes from the upper to the lower feeder; and I claim constructing the upper feeder of larger size than the lower feeder with or without an increased number of blades, or in an equivalent manner, for the purpose herein set forth. And I further claim introducing an independent current of hot dry air into the chamber between the two feeders, substantially as herein described for the purpose set forth."

No. 24,676. JACOB W. TRUOX, of Richford, Vt., for an "Improved head block for saw mills."

"I claim, 1st, the combination and arrangement of the ratchet wheel F, setting lever P, cam wheel R, gauge wheel M, and spur wheel I, with the spring latch H, in the manner and for the purposes herein above specified. 2nd, I claim the clamps V, the lever W, and eccentric lever Y, arranged and operating as herein above specified."

No. 24,677. MARIANUS X. TSCHUS, of Bloomington, Ill., for an "Improved spring snap for bridle reins."

"I claim the combination of the two in one, in the manner described and for the purpose described."

No. 24,678. LEVI B. TYNG, of Lowell, Mass., for an "Improvement in cast-iron tires for railroad wheels."

"I claim, first, the wedge-shaped braces d, d^1, arranged in the chamber C, between the rims A and B, of a hollow cast-iron tire, so that the chamber is continuous throughout, substantially as and for the purpose set forth. Second, in combination with the continuous chamber C, I claim the groove b, in the inner rim, arranged substantially as and for the purpose described. Third, arranging the ribs C, alternately in the inner and outer rim, for the purpose of strengthening them without tying them together, substantially as described."

No. 24,679. WM. W. VIRDIN, of Baltimore, Md., for an "Improvement in mode of propelling locomotive engines on railroads."

"What I claim, is, the placing of friction wheels under the driving wheels of locomotives or other vehicles, in the manner substantially the same as described in this specification."

No. 24,680. WM. W. VIRDIN, of Baltimore, Md., for an "Improvement in mode of braking locomotive engines in rail roads."

"What I claim is, the introduction of air into the cylinders of locomotives, in the manner as herein-before set forth, and for the purpose of offering a yielding resistance to the movement of the piston, and by this resistance overcome the momentum of the train."

No. 24,681. JOSEPH W. WATTLES, of Canton, Mass., for an "Improvement in ring and traveler spinning machines."

"What I claim is, the combination and arrangement of the bearing annulus b, with the ring or its traveler carrier a, substantially in manner and to operate with the traveler as described."

No. 24,682. JOHN S. WERTZ, of Middletown, Iowa, for an "Improvement in machine for boring post holes in the earth."

"What I claim is, 1, the arrangement and combination of the screw shaft D, cross head C, grooves (k), pinions (m), and toothed cylinders (B), as and for the purpose herein shown and described. 2nd, the arrangement and combination with the cylinders B, of the shafts F, and rotary scrapers G, as and for the purpose herein shown and described. 3rd, the arrangement and combination with the frame A, of the jointed bars (c, c,) sectors (e), and adjusting rods (h), as and for the purpose herein shown and described."

No. 24,683. J. W. WEST, of Hillsboro, Ohio, for an "Improvement in corn planters."

"What I claim is, the arrangement of cords o and u, with the pulleys i and j, working in arms h, h, for operating the slotted plunger l, and seeding bar g, the whole operated together in the manner and for the purpose substantially as set forth."

No. 24,684. WM. WHEELER, of West Poultney, Vt., for an "Improvement in manufacturing machine and animal cards."

"What I claim is, the construction and arrangement of the sheet metal backs and wire teeth, in combination substantially as herein described, when united by solder applied thereto, by immersion or otherwise."

No. 24,685. E. B. WHITE, of Nashua, N.H., for an "Alarm attachment for tills."

"I claim, 1st, the bolt plate b, provided with bolts C, connected by a joint c to the box B, and connected to a bell-striking apparatus, substantially as shown in connection with the keys k and a stop D, the whole being applied to the till, substantially as and for the purpose set forth. 2nd, in combination with the bolt plate b, bolts C, and keys k, the bar j^1 and screws e, in the parts k^1 of the keys, when the bolt plate and bar j^1 are both connected with the lever h or the bell-striking apparatus, in any proper way. 3rd, the employment or use of the sliding plate G, combined and arranged with the bolt plate b and stop D to operate automatically, as and for the purpose set forth. 4th, the employment or use, for the purpose specified, of a supplemental spring u fitted in a socket t, or otherwise arranged to resist the movement of the bar j, when said bar j is used in connection with spring bolts C, substantially as described."

No. 24,686. LOREN J. WICKS, of Racine, Wis., for an "Improved churn."

"I claim, 1st, the combination of the box A, the pipe B, and the box C, when the same are used in the manner and for the purpose herein set forth. 2nd, placing the box C over the box A, and providing said box C with a screen D and depending wire gauze partition E, E, substantially in the manner and for the purpose specified."

No. 24,687. HENRY WILEY, of Frankfort, Ohio, for an "Improvement in corn planters."

"I claim the arrangement of the gate H, wheel k, bars B, hopper J, rods d, slides N, and seed tubes Y, being all constructed, arranged, and operated, substantially as set forth."

No. 24,688. LEONARD WORCESTER, of Lebanon, N. H., for an "Improved machine for boring or mortising blind stiles."

"What I claim is, combining the transversely reciprocating carriages A, A, with the cam cylinders L, L, by means of the

pairs of vibrating levers E, E, and *f*, *f*, substantially in the manner and for the purposes herein set forth. I also claim as my invention the notched plates N, N, for sustaining the stiles during the operation of mortising or boring the same, when the said plates are combined with reciprocating bearings, and other suitable mechanism, in such a manner that the necessary laterally reciprocating and longitudinally feeding movements will be imparted to said plates, substantially as herein set forth. I also claim combining the bearings of the bit shaft G with the reciprocating carriage C, when the said shaft is so arranged with relation to the notched plates N, N, that the bits which project from the ends of said shaft, will act upon the stiles as they are automatically presented to them, substantially as herein set forth. I also claim the combination and joint operation with each other of the reciprocating carriages A, A, the notched plates N, N, the pairs of levers E, E, and *f*, *f*, the cam cylinders L, L, the reciprocating spring pawls *k*, *k*, and the bit carrying cylinder G, substantially as herein set forth."

No. 24,689. Wm. E. Worthen and Henry B. Renwick, of New York, N. Y., for an "Improvement in corrugating sheet-metal."

"We claim the method of corrugating or moulding sheet metal by several dies acting in succession, substantially in the manner specified upon a sheet resting upon a bed, die, or dies, so as to cause the metal to conform to shape, substantially in the manner herein described."

No. 24,690. John Wright, of Worcester, Mass., for an "Improvement in self-acting spinning mules."

"What I claim is, the shaft F, with its screw thread *d*, *e*, *f*, arranged and applied substantially as herein described, in combination with the carriage, the quadrant, and the shaft, which drives the drawing rollers, for the purpose herein set forth."

No. 24,691. Frederick Baare and Julius G. Garrelly, of New York, N. Y., assignors to Horace H. Day, of same place, for an "Improvement in manufacturing corrugated fabrics."

"What we claim is, the combination of two or more parallel series of corrugations in the same fabric, in such manner that the ridges of the adjacent series alternate. We also claim combining rubber strands (one or more) with a texile material, in such manner that when the rubber contracts the compound fabric gathers up into two or more parallel series of corrugations, whose members alternate. We also claim combining rubber strands with a texile material in such manner that the strands are alternately secured to the fabric and left free therefrom at alternating parts of their length, so that the secured part of one rubber strand corresponds with the free part of an adjacent one. We also claim forming the fabric sleazy at the division lines between the corrugations of adjacent series, so as to insure uniformity in the form of the adjacent extremities of the corrugations."

No. 24,692. Francis W. Bacon, of West Newton, Mass., assignor to Edw. H. Ashcroft, of Boston, Mass., for an "Improvement in gauge cocks for steam boilers."

"I claim the combination of the throat clearer C, with the throat and screw-plug of the gauge-cock, and so as to operate therewith, substantially as specified."

No. 24,693. Henry W. Beins, of New York, N.Y., assignor to the New England Car Spring Company, of same place, for an "Improvement in vulcanized rubber car springs."

"What I claim is the sectional gum car spring, of two or more pieces, vulcanized, in the manner herein set forth."

No. 24,694. E. Culver, of Shelburne Falls, Mass., assignor to himself and R. N. Fife, of same place, for an "Improved table and clothes' dryer."

"What I claim is the within-described combination of ironing table and clothes dryer, the table furnishing a support to the dryer, and a receptacle in which it may be stowed away, as set forth."

No. 24,695. A. K. Eaton, of New York, N. Y., assignor (through J. S. L. Cummins, et al.,) to the Joslin India Rubber Company, for an "Improvement in vulcanizing rubber."

"What I claim is, the use of the sulphide of manganese in the curing of india rubber, in the manner herein specified."

No. 24,696. O. F. Fuller, of Lamonte, Mich., assignor to himself and W. M. Ferry, of Ferrysburgh, Mich., for an "Improvement in railroad brakes."

"I claim the brake blocks C, pins *a*, *a*, and levers D, D, constructed and operating together, substantially as and for the purpose herein described."

No. 24,697. Joseph R. Gates, of Indianapolis, Ind., assignor to himself, J. J. Dumont, and E. F. Sinker, of same place, for an "Improvement in sugar mills."

"What I claim is the grooved friction rollers (G), (G), (G), (G), when used for stripping the blade from the stalk, substantially as set forth."

No. 24,698. Joseph Jones, of Philadelphia, Pa., assignor to himself and James G. Bryce, of same place, for an "Improved butter worker."

"I claim the use of the yielding beater G, whether solid or constructed with an open, or with a perforated bottom, enclosing an absorbing material, as set forth in combination with a traveling tray, the whole operated as described."

No. 24,699. Lansing Marble, of Vassar, Mich., assignor to himself and Townsend North, of same place, for a "Method of manufacturing baskets."

"I claim the within-described method of forming baskets by passing a series of staves or splints through proper guides over a mould, and pressing the same in the proper shape by a suitable piston and form, as set forth."

No. 24,700. Lewis Miller and Jacob Miller, of Canton, Ohio, assignors to C. Aultman and Co., of same place, for an "Improvement in harvesters."

"We claim extending the finger or platform bar, one or both far enough under the yielding bars, by which they are hung to the main frame, as that the two may be united by suspension rods, which allows them a yielding motion in one direction, makes them rigid in another direction, and prevents the motions of the main frame from being communicated to the finger bar, substantially as described."

No. 24,701. Chas. Neale, of Philadelphia, Pa., assignor to Frederick Leibrandt and W. L. McDowell, of same place, for an "Improvement in moulding beads on hollow ware."

"What I claim is, moulding for the production of beads, flanges, or other projections and ornaments, on the outer sides of cast metal pots, kettles, and other vessels so as to form the said vessels in two part flasks, the pattern bead flange, or other projecting ornament, being so constructed, arranged, and operated, as to admit of its being drawn in and pushed out of the vessel pattern, substantially in the manner described."

No. 24,702. Alfred S. Phillips, of Boston, Mass., assignor to himself and Isaac Adams, of South Boston, Mass., for an "Improved hawse pipe for ships."

"I claim a tubular cable guide, curved substantially as described."

No. 24,703. Peter Platter, of Moore's Hill, Ind., assignor to himself and James S. Fleming, of same place, for an "Improvement in corn planters."

"What I claim is, the arrangement of the shield T, hammer G, sliding feed bar I, lever O, crank shaft K, and spring H, the whole being constructed for operation conjointly, as and for the purpose set forth."

No. 24,704. John I. Rollow, of Fredericksburgh, Va., assignor to Chas. C. Wellford, of same place, for an "Improvement in threshing machines."

"I claim the combination of the inclined carrier (H) with the shoot (I), and curved screen (J), the whole being constructed, arranged, and operated in the manner and for the purposes set forth."

No. 24,705. Wm. Spink, of Providence, R. I., assignor to Oliver A. Washburn, jr., of same place, for an "Improved machine for pointing nails and spikes."

"I claim the combination of the bunter G, the pointer F, and the spring I, with each other and with the back piece and other parts of the reed machine, or with the correspond-

ing parts of any other nail machines, constructed and operated substantially in the manner as herein-before set forth."

No. 24,706. Geo. C. Wheeler, of Grayville, Geo., assignor to himself and Geo. Calvert, of Upperville, Va., for an "Improved machine for washing and amalgamating gold."

"I claim 1st, the relative arrangement for united operation of the hopper I, horizontally revolving vertical tubes H, H, H, horizontally revolving rakes G, G^1, G^2, and stationary washing vessels, B, C, substantially as and for the purpose herein described. 2nd, making the receiver or washing vessel in two parts B, C, and combining with the part C an adjusting device D, *a*, *a*, substantially as and for the purpose herein described."

No. 24,707. Wm. W. W. Wood and Henry Howson, of Philadelphia, Pa., assignor to John Rice, of same place, for an "Improved device for operating the cut-off valve of steam engines."

"We limit our claim to causing the positive power of the engine to operate the throttle valve by the employment of two vibrating, reciprocating, or rotating strikers, actuated by any positive movement of the engine, in combination with two inclined planes intervening between the said strikers and the valve or appliances connected therewi h, any governor being so connected to the strikers, or to the inclined planes, that the movement of the governor caused by any increase or diminution in the speed of the engine, shall change the position of the inclined planes in respect to the strikers, or that of the strikers in respect to the inclined planes, and that the latter may thereby be the intermediate means of regulating the extent of the opening of the valve to suit the speed of the engine, while the actual movement of the valve is effected through one or the other of the strikers, by the power of the engine itself, as herein set forth."

Re-issues.

No. 752. Albert Fuller, of Cincinnati, Ohio, for an "Improved faucet."—Patented 16th October, 1855.—Re-issued 5th July, 1859.

"What I claim is, the elastic plug valve attached to a stem when operated by an eccentric or its equivalent, substantially as set forth for the purposes described. 2d, I claim the elastic plug valve constructed as described in combination with the cup-shaped cap to prevent the cup frem spreading substantially as described."

No. 753. James Powell, of Cincinnati, O., for "Improvements in faucets." — Patented 22nd March, 1859.—Re-issued 5th July, 1859.

"I claim the described arrangement of the cam F, flanges J and J^1, longitudinal slot *i*, and spurs K, combined and operating in the manner and for the purposes set forth."

Designs.

No. 1,112. James Greer and Rufus J. King, of Dayton, Ohio, for a "Design for cooking stoves."

"We claim the design for a cooking stove exhibited in the accompanying drawings."

No. 1,113. James Greer and Rufus J. King, of Dayton, O., for a "Design for sides and doors or cooking stoves."

"We claim the design exhibited in the accompanying drawings for the side and doors of a cooking stove."

No. 1,114. Henry Hebbard, of New York, N. Y., for a "Design for spoon and fork handles."

"I claim the combination and arrangement of the several devices before described, with the handle of a spoon, fork, or other article of table cutlery, whether made of silver or other metal, for the purpose of ornamenting the handles thereof."

No. 1,114. Wm. W. Wilson, of Pittsburgh, Pa., for a "Design for sun dials."

"I claim the new and improved configuration of sun dials, as set forth in the specification and accompanying drawing."

No. 1,116. James Bogle, of West Newton, Mass., assignor to himself and Daniel Bogle, of Dover, N. H., for a "Design for floor oil cloth."

"I claim as new and as my invention, and desire to secure by Letters Patent of the United States, to my assignees, agreeably to my assignment and petition of the 9th day of June, 1859."

No. 1,117. James Bogle, of West Newton, Mass., assignor to himself and Daniel Bogle, of Dover, N. H., for a "Design for floor oil cloth."

"I claim the design of whatever size, in whatever colors, or kind, or number, or in whatever contrasts or blending of colors, or of light and shade, is the thing I claim as new and as my invention, and desire to secure by Letters Patent of the United States, to my assignees, agreeably to my assignment and petition of this 9th day of June, 1859."

No. 1,118. Garrettson Smith and Henry Brown, of Philadelphia, Pa., assignors to J. G. Abbott and A. Lawrence, of same place, for a "Design for stoves."

"We claim the design and configuration of the ornamental castings as above described and set forth in the annexed drawings."

No. 1,119. Wm. W. Stevens, of Westbrook, Maine, assignors to Nathl. P. Richardson and Co., of Portland, Maine, for a "Design for fire frames."

"I claim the configurations, ornaments, and mouldings above described, as shown in the drawings, as a design for fire frames."

No. 1,120. Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for "A design for a carpet pattern."

"I claim the design or pattern for carpets herein set forth."

No. 1,121. Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for a carpet pattern."

"I claim the design or pattern for carpets herein set forth."

No. 1,122. Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for a carpet pattern."

"I claim the design or pattern for carpets as herein set forth."

No. 1,123. Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for a carpet pattern."

"I claim the design or pattern for carpets herein set forth."

Additional Improvement.

No. 242. Hubbard Beebe, of New Haven, Conn. for a "Mode of preparing and mounting slates."—Patented 29th March, 1859.—Additional Improvement dated 5th July, 1859.

"I claim the combination of leather or cloth, or felt (or felting) instead of, or in addition to india rubber and gutta percha, so far as beauty, and economy, and desirableness in use may require, with the metallic band or rim around the edge of the slate, as patented 29th March, 1859. I also claim as my improvement, the combination of leather and cloth with my metallic rim, or with a waterproof cement of such strength and stiffness as will warrant, to some extent, the disuse of said metallic rim, especially in mounting slates in portfolio form or forms, as set forth in the above specification and accompanying drawings."

EXTENSION.

ISAAC T. GRANT, of Schagticoke, N. Y., for an "Improvement in fan mills."—Patented 10th July, 1845.—Extended 28th June, 1859.

"I claim the manner in which I have arranged the screen F and the chess-board H, and combined them with the screens ordinarily used, so as to obtain two distinct currents of wind, and to subject the falling grain to the stronger currents below the screen and chess-board, thereby blowing off the heavier portions of foreign matter, whilst the chaff is blown off by the ordinary currents in the upper compartments of the shoe."

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B. WOODCROFT,
Superintendent of Specifications, &c.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 580. TUESDAY, JULY 26, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

637. JOHN COURT, of Brompton Row, in the county of Middlesex, Gas Fitter, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improvement in nibs for gas burners."

638. And RICHARD ALLISON, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "Improvements in apparatuses for boring and sinking."

As set forth in their respective petitions, both recorded in the said office on the 12*th day of March,* 1859.

657. And WILLIAM ROBERTSON, of Dundee, in the county of Forfar, North Britain, Engineer, and JAMES GUTHRIE ORCHAR, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in weaving."

660. And ISAIAH ASH, of No. 17, Great Bridport Street, Blandford Square, in the county of Middlesex, Locksmith, has given the like notice in respect of the invention of "Improvements in the construction of locks and latches."

668. And JAMES CLARK, of Newton Heath, near Manchester, has given the like notice in respect of the invention of "Improvements in the manufacture of fabrics in which compounds containing india rubber are used."

669. And GEORGE HAMILTON, of St. Martin's-le-Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, have given the like notice in respect of the invention of "Improvements in tumbler or lever locks, and in keys for such and other locks."

671. And THOMAS WILLIAM MILLER, of Her Majesty's Dockyard, Portsmouth, has given the like notice in respect of the invention of "Improvements in blocking or securing ships and other vessels whilst being removed, examined or repaired."

As set forth in their respective petitions, all recorded in the said office on the 16*th day of March,* 1859.

672. And COLEMAN DEFRIES, of the firm of Jonas Defries and Sons, Hounsditch, has given the like notice in respect of the invention of "Improvements in lamps."

678. And ANDREW GEORGE HUTCHINSON, of West Derby, in the county of Lancaster, Builder, has given the like notice in respect of the invention of "Improvements for counteracting damp in buildings."

679. And PH. LAROCHETTE, ainé, of Paris, in the empire of France, has given the like notice in respect of the invention of "Improvements in machinery for brewing.

As set forth in their respective petitions, all recorded in the said office on the 17*th day of March,* 1859.

690. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "A new or improved metallic alloy."

691. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement in the manufacture of cast steel."

692. And ALBERT LOUIS THIRION, Pastor of Ascheen-Refail, Province de Namur, kingdom of Belgium, has given the like notice in respect of the invention of "Improvements in water, wind, steam, and hand mills."

As set forth in their respective petitions, all recorded in the said office on the 18*th day of March,* 1859.

696. And WILLIAM BRUCE GINGELL, of 37, Corn Street, in the city of Bristol, Architect, has given the like notice in respect of the invention of "Improvements in the form of metal bars used for the stiles, rails, heads, and sills of window sashes, casements, and other lights."

703. And Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of cast steel."

As set forth in their respective petitions, both recorded in the said office on the 19th day of March, 1859.

708. And Arnould Baucq, Sugar Manufacturer, of Marchiennes, departement of the Nord, empire of France, has given the like notice in respect of the invention of "Maintaining graters mechanically."

712. And Joseph Roberts, of Staley Bridge, in the county of Chester, Engineer, has given the like notice in respect of the invention of "Improvements in packings for pistons."

717. And William Rhodes, of Wade Street, Thornton Road, Bradford, in the county of York, Whitesmith, has given the like notice in respect of the invention of "Certain improvements in fire-proof safes."

As set forth in their respective petitions, all recorded in the said office on the 21st day of March, 1859.

719. And John Davis, of No. 18, Frith Street, Soho, in the county of Middlesex, Professor of Music, has given the like notice in respect of the invention of "Improvements in musical instruments."

721. And William Armand Gilbee, of No. 4, South Street, Finsbury, London, Patent Agent, has given the like notice in respect of the invention of "An improved apparatus for stretching and polishing silk thread."—A communication from abroad, by Messieurs Lyomet, and Prénat, of St. Etienne, France.

722. And William Weild, of the city of Manchester, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in machinery and arrangements for coating slips, sheets, rods, and bars of metal, and laths, rods, and boards of wood and similar articles formed of other substances, with paints, varnishes, and other like preparations and drying the same."

727. And Daniel Lancaster Banks, of Kennington, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in suspension rail or road ways, and in machinery or apparatus connected therewith."

730. And Thomas Manlove, of Radford Grove, Lace Manufacturer, and William Hodgkinson, of New Lenton, Draughtsman, both in the county of Nottingham, have given the like notice in respect of the invention of "A new method of manufacturing plain, figured, striped and plaited textile fabrics, in imitation of loom-made fabrics."

732. And Jacobus Tyssen, of Rotterdam, in the kingdom of Holland, Mariner, has given the like notice in respect of the invention of "An improved apparatus for indicating the speed of ships and other vessels."

As set forth in their respective petitions, all recorded in the said office on the 22nd day of March, 1859.

741. And Jean Vanden Hielakker, of the city of Brussels, in the kingdom of Belgium, Civil Engineer, has given the like notice in respect of the invention of "Improved apparatus for pressing or moulding artificial or patent fuel, fire-bricks, and similar articles."

As set forth in his petition, recorded in the said office on the 23rd day of March, 1859.

752. And Charles Sanderson, of Sheffield, in the county of York, Merchant, has given the like notice in respect of the invention of "Improvements in preparing, tempering, and covering or coating thin strips or sheets of steel."

As set forth in his petition, recorded in the said office on the 24th day of March, 1859.

778. And Thomas Carr, of Bebington, in the county of Chester, Artificial Manure Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for disintegrating artificial manures and various other substances."

As set forth in his petition, recorded in the said office on the 29th day of March, 1859.

790. And Walter Brown, of Bolton le Moors, in the county of Lancaster, Clog Manufacturer, has given the like notice in respect of the invention of "Improvements in manufacturing clog soles, and in the machinery employed therein."

800. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved governor for marine and other steam engines."—A communication from abroad by H. C. Sergeant, of the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 30th day of March, 1859.

818. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in cricket bats."—A communication from abroad by Michæl Doherty, of Boston, in the United States of America.

As set forth in his petition, recorded in the said office on the 1st day of April, 1859.

993. And Job Wotton, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "An improvement or improvements in raising or shaping metals."

As set forth in his petition, recorded in the said office on the 20th day of April, 1859.

1222. And Lemuel Dow Owen, of 192, Tottenham Court Road, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "An improved menstrual receiver or truss."—A communication from abroad by Herman W. Ladd, of Boston, Massachusetts, United States of America.

As set forth in his petition, recorded in the said office on the 17th day of May, 1859.

1268. And Charles Peters Moody, of Corton Denham, in the county of Somerset, Gentleman, has given the like notice in respect of the inven-

tion of "Improvements in machinery for the manufacture of matting or fabric from straw and other vegetable fibres and rods or bars of wood and metal."

1270. And FREDERICK JOSEPH BRAMWELL, of Great George Street, Westminster, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in apparatus for raising ships and vessels out of the water."—Partly a communication from abroad by Messrs. Miers Brothers and Maylor, of Rio de Janeiro.

As set forth in their respective petitions, both recorded in the said office on the 23rd day of May, 1859.

1410. And FRANCIS PULS, Chemits, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the treatment of hydrocarbons."

As set forth in his petition, recorded in the said office on the 10th day of June, 1859.

542. And JAMES NASH, of Millwall, in the county of Middlesex, Smith, has given the like notice in respect of the invention of "An improved disengaging block."

1544. And ALEXANDER MCDOUGALL, of Manchester, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improvements in the preparation of disinfecting and antiseptic substances.

1552. And GEORGE BAKER, of Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Improvements in the manufacture of metallic lattice or trellis work."—A communication from abroad by Owen Carraway, late of New York.

As set forth in their respective petitions, all recorded in the said office on the 29th day of June, 1859.

1590. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "An improved hemmer or apparatus to be used in connection with sewing machines for turning over and presenting the edge of the material to be hemmed properly to the needle."—A communication from abroad by Joseph Poole Pirsson, of New York.

As set forth in his petition, recorded in the said office on the 4th day of July, 1859.

1598. And JAMES HALL NALDER, of Alverscott, in the county of Oxford, Farmer, and THOMAS NALDER, of Challow Works, in the county of Berks, Engineer and Agricultural Implement Manufacturer, have given the like notice in respect of the invention of "Improvements in winnowing and dressing grain and seeds, and in machinery or apparatus employed therein."

1599. And JOHN WATKINS, of the Cwmamman Colliery, Aberdare, in the county of Glamorgan, Agent, and JAMES PUGH, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in lubricating wheels."

As set forth in their respective petitions, both recorded in the said office on the 15th day of July, 1859.

1613. And JOHN KNOWELDEN, of Southwark, in the county of Surrey, Engineer, and DOWNES EDWARDS, of Upper Belgrave Place, in the county of Middlesex, Gentleman, have given the like notice in respect of the invention of "Improvements in hydraulic engines and pumps, and the employment of apparatus for applying motive power."

As set forth in their petition, recorded in the said office on the 7th day of July, 1859.

1627. And DAVID MATHEWS, of Eshald Well Brewery, Oulton, near Leeds, in the county of York, Brewer, has given the like notice in respect of the invention of "Improvements in apparatus for refrigerating and heating liquids."

As set forth in his petition, recorded in the said office on the 8th day of July, 1859.

1637. And BERNHARD SAMUELSON and JOHN SHAW, both of the Britannia Works, Banbury, in the county of Oxford, have given the like notice in respect of the invention of "Improvements in reaping and mowing machines."

1639. And CHARLES ILIFFE, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of buttons."

As set forth in their respective petitions, both recorded in the said office on the 9th day of July, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

26th July, 1859.

246. ELIJAH DIXON, of Preston, in the county of Lancaster, Mechanic, and HENRY WHITTAKER, of the same place, Mechanic, for an invention of "Improvements in apparatus used in weaving textile fabrics."—Dated 27th January, 1859.

253. WILLIAM CROWTHER, of Leeds, in the county of York, Manufacturing Chemist, for an invention of "Improvements in the manufacture of prussiates of potash or soda, and in recovering a useful material therefrom."—Dated 27th January, 1859.

254. JAMES GATHERCOLE, of Bath Terrace, Camberwell New Road, in the county of Surrey, Gentleman, for an invention of "Improved machinery for manufacturing envelopes and paper bags."—Dated 27th January, 1859.

255. IGNAZIO ZACHERONI (native of Italy), residing at Liverpool, in the county of Lancaster, Artist, for an invention of "An improved mode or method of preventing the escape of smoke into the atmosphere, and in the construction of chimney 'pots' or 'tops' for curing smoky chimneys."—Dated 28th January, 1859.

259. Frederic Prince, of 138, New Bond Street, in the county of Middlesex, Gun Maker, for an invention of "A new breech loading gun."—Dated 28th January, 1859.

266. James MacKenzie, Manager to William Strode, of Saint Martin's-le-Grand, in the city of London, Gas Engineer, for an invention of "An improved method of operating ventilating valves, especially applicable to ventilating gas burners."—Dated 29th January, 1859.

270. Jean Justin Albert de Bronac, and Augustin Joseph Martial Deherrypon, Civil Engineers, of Paris, in the empire of France, for an invention of "A new or improved process for treating metallic sulphurets, phosphurets, arseniurets, antimoniurets, and particularly sulphuretted ores of lead, antimony, copper, silver, zinc."—Dated 29th January, 1859.

272. Thomas Plunkett Smith, of Stanmore, in the county of Middlesex, Schoolmaster, for an invention of "An apparatus for guiding or directing the pen or pencil in writing or drawing."—Dated 31st January, 1859.

274. John Raywood, Engineer, of Wentworth, in the county of Yorkshire, for an invention of "Certain improvements in the construction and method of working sewing machines."—Dated 31st January, 1859.

289. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for an invention of "Improvements in sewing machines."—A communication from J. P. Pirsson, residing in New York.—Dated 1st February, 1859.

297. Edward Wilkins, of No. 7, Addington Place, Camberwell, in the county of Surrey, Gentleman, for the invention of "Improvements in drain pipes and tiles for draining and liquid manuring land."—Dated 2nd February, 1859.

307. Thomas Storer, of Birmingham, in the county of Warwick, Undertaker and Funeral Carriage Proprietor, for an invention of "A new or improved funeral carriage."—Dated 3rd February, 1859.

330. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in the means or apparatus for preserving grain, flour, eggs, and other vegetable and animal substances."—A communication from abroad by Louis Jacques Chateau, of Paris, Notary.—Dated 4th February, 1859.

342. Matthew Curtis, of the city of Manchester, in the county of Lancaster, Machinist, and John Miller, of Staley Bridge, in the said county, Manager, for an invention of "Improvements in certain mules for spinning cotton and other fibrous substances."—Dated 7th February, 1859.

343. Joseph Lee of 18, Monson Street, Lincoln, for an invention of "Improvements in the manufacture of cranks for steam engines and other purposes."—Dated 7th February, 1859.

359. Thomas Stokes Cressey, of High Street, Homerton, in the county of Middlesex, for an invention of "Improvements in machinery used in the manufacture of casks."—Dated 8th February, 1859.

373. Henry Potter Burt, of Charlotte Rowe, Mansion House, in the city of London, for an invention of "Improvements in railway carriages and waggons."—Dated 10th February, 1859.

388. Robert Cogan, of Red Lion Square, in the county of Middlesex, Glass Dealer, for an invention of "Improved instruments for crushing and mixing solid and liquid substances."—Dated 11th February, 1859.

390. Charles Jackson, of Store Street, Bedford Square, in the county of Middlesex, Pianoforte Manufacturer, for an invention of "Improvements in the action of piano fortes."—Dated 11th February, 1859.

412. Josiah Latimer Clark, of Haverstock Hill, in the county of Middlesex, for an invention of "Improvements in the means of working railway signals and switches."—Dated 14th February, 1859.

451. Charles Garton, of the city and county of Bristol, Brewer, for an invention of "An improved method of treating cane sugar in order to render it fitter to be employed in brewing, distilling, and wine and vinegar making."—Dated 18th February, 1859.

529. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in apparatus for stopping horses."—A communication from Madame Achet, residing at Paris, in the empire of France.—Dated 28th February, 1859.

662. Henry Ambler, of Halifax, in the county of York, for an invention of "Improvements in breech loading ordnance, and in the means of producing part or parts thereof, which improvements are also applicable to what are called small arms."—Dated 16th March, 1859.

875. John Bindley, of Birmingham, in the county of Warwick, Engineer, and Joseph Lester Hinks, of Birmingham aforesaid, Manufacturer, for an invention of "Improvements in rotatory steam engines and pumps, a portion of which improvements may also be applied to the bearings of shafts or axles and other rotating bodies."—Dated 8th April, 1859.

948. John Chapman, of Wolverhampton, in the county of Stafford, Iron Master, for an invention of "An improvement or improvements in the manufacture of angle iron."—Dated 15th April, 1859.

1158. Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A self-regulating horse machine."—A communication from abroad by P. Isaac Gurin, No. 10, Rue Mogador, Paris, in the empire of France.—Dated 9th May, 1859.

1228. Charles Law, of Wolverhampton, in the county of Stafford, Lockmaker, for an invention

of "Improvements in the construction of locks."—Dated 17th May, 1859.

1319. Walter Crum, of Thornliebank, in the county of Renfrew, Bleacher and Calico Printer, for an invention of "Improvements in printing and dyeing textile fibres and fabrics."—Dated 28th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 23rd July, 1859, inclusive.*)

21st July.

1768. Thomas Byford, of Carlton Villas, 34, Edgware Road, for an invention of "Improvements in horses' bits."—Dated 25th July, 1856.

1793. John Knowles, of Calow, in the county of Derby, Ironmaster, and William Buxton, of Brimington, in the said county of Derby, Manager of Ironworks, for an invention of "Improvements in tuyeres."—Dated 29th July, 1856.

2021. Hezekiah Conant, of the state of Connecticut, of the United States of America, for an invention of "A new and useful improvement in fire-arms."—Dated 30th August, 1856.

22nd July.

1741. Ferdinand Potts, Tube Manufacturer, of Birmingham, in the county of Warwick, for an invention of "Certain improvements in tags for stay and other laces, as also in the machinery for forming and finishing the same."—Dated 23rd July, 1856.

1759. George Alexander Copeland, of Constantine, near Falmouth, Cornwall, for an invention of "An improved safety blasting cartridge for the use of miners and quarrymen."—Dated 24th July, 1856.

1781. Samuel Yeadon, of Idle, near Bradford, in the county of York, Reed Maker, and George Chapman, of Stockport, in the county of Chester, Draper, for an invention of "Improvements in the construction of reeds for weaving, and in machinery or implements and materials to be used in such construction."—Dated 26th July, 1856.

1834. Nicolas Cadiat, of Rue de l'Odéon, 12, Paris, Civil Engineer, for an invention of "The application of centrifugal force for purifying liquids."—Dated 4th August, 1856.

23rd July.

1760. Charles Tiot Judkins, of 98, Fleet Street, London, Middlesex, and 35, Corporation Street, Manchester, Merchant, for an invention of "An improved gas regulator."—Dated 24th July, 1856.

1766. Edward Lord, Thomas Lord, Abraham Lord, and William Lord, all of Todmorden, in the county of York, Machine Makers, for an invention of "Improvements in machinery for opening, blowing, scutching, and preparing cotton and other fibrous substances."—Dated 25th July, 1856.

1770. Thomas Wrigley, of Bury, in the county of Lancaster, Paper Manufacturer, for an invention of "Certain improvements in machinery or apparatus for cleaning 'cotton waste' or other materials used in the manufacture of paper."—Dated 25th July, 1856.

1776. Julien Denis, of Queenhithe, in the city of London, for an invention of "Improvements in cutting or perforating steel and other metals."—A communication.—Dated 25th July, 1856.

FOREIGN PATENTS.

HANOVER.*

List of Patents of Invention Granted between the 11th April and 24th June, 1859.

(*Communicated by the Hanoverian Government.*)

(For previous List, see No. 555 of this Journal.)

1. P. Noak, of Camina, Saxony, Brewer, for "The production of a spirituous liquor from malt."—5 years.—Dated 11th April, 1859.
2. H. Hutchinson, of Paris, for "A process to produce patterns in relief of coutchouc upon woven fabrics, leather, or felt, &c."—5 years.—Dated 14th April, 1859.
3. Edward Hunt and Henry Davis Pochin, of Manchester, for "An apparatus for purifying pitch and resinous substances by distillation without decomposing them."—5 years.—Dated 14th April, 1859.
4. R. Von Bandel, of Hanover, for "A parallel vice."—5 years.—Dated 18th April, 1859.

4*a*. E. Meyer and O. Schuchard, of Hanover, for "An endless cloth to prepare waddings of great length, a machine for churning liquid glue into froth, and a machine for sizing and drying the same waddings."—5 years.—Dated 20th April, 1859.

5. S. C. Lister and Co. of Uebigau, near Dresden, for "An improved machine for combing wool of long staple."—5 years.—Dated 6th May, 1859.
6. G. Th. König, of Linden, for "An improved valve gear in oscillating steam engines."—5 years.—Dated 6th May, 1859.

* For the Hanoverian Patent Law, see No. 251 of this Journal.

7. Captain D. SCHAFFLER, of Neustadt, am Rb., for "An apparatus for distributing the gases in smelting furnaces and cupolas."—2 years.—Dated 25th May, 1859.

8. T. NONNE, of Dingen, for "An arrangement of brick kilns systematically connected and œconomising fuel."—5 years.—Dated 16th June, 1859.

9. G. H. WENDT BRÜGGEN for "A simplified drilling machine upon Cook's system."—5 years.—Dated 16th June, 1859.

10. S. ELSTER, of Berlin, for "A mechanical contrivance in gas meters to maintain a constant water level."—5 years.—Dated 24th June, 1859.



PRUSSIA.*

LIST of PATENTS Granted and Cancelled between the 1st and 30th June, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. PATENTS GRANTED.

1. ROBERT RUDOLPH WERNER, of Berlin, for "A rotary steam engine, composed as shown in the drawing and specification and without limiting any one in the application of such parts of it as are already known."—5 years.—Dated 1st June, 1859.

2. F. MARTINI, of Rothenburg, near Connern, for "A furnace explained by drawing and specification and acknowledged as new and peculiar in its whole construction for the manufacture of tar from brown coal and other fossil substances without limiting any one in the application of parts already known."—5 years.—Dated 4th June, 1859.

3. F. ANDREW SIEMENROTH, of Custrin, for "A construction of the tuning head for string instruments explained by drawing and specification, and acknowledged as new and peculiar in its whole construction."—5 years.—Dated 11th June, 1859.

2. PATENTS CANCELLED.

1. A. FACILIDES and WIEDE, of Plauen, for "A mechanical arrangement in mulejennies for uniting the threads when broken." — Dated 3rd April, 1858.—Cancelled 1st June, 1859.

2. KÜHNE, C. E., from Halberstadt for "An apparatus for extracting sugar from carrots." — Dated 10th April, 1858.— Cancelled 10th June, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

LIST of SPECIFICATIONS published during the week ending 23rd July, 1859.

No.	Price.	SUBJECT-MATTER.
		(*Disclaimer*, &c., 1853.)
2187*	3*d.*	Sewing machines.
		(*Disclaimer*, &c., 1853.)
2331*	4*d.*	Winnowing corn.
		(*Disclaimer*, 1856.)
598*	3*d.*	Tartaric and citric acids and tartrate of potash and soda.
		1859.
2783	1*s.* 5*d.*	Weaving, &c.
2836	11*d.*	Obtaining electro-motive power.
2848	7*d.*	Ever pointed pencils.
2855	7*d.*	Twisting threads, twine, cords, &c.
2867	6*d.*	Bleaching or cleansing textile fabrics.
2870	5*s.* 8*d.*	Screws, rivets, nails, &c.
2871	7*d.*	Bullets.
2872	7*d.*	Condensing apparatus.
2873	10*d.*	Looms.
2874	9*d.*	Pendulum governor for marine steam engines.
2875	9*d.*	Agricultural implements.
2876	6*d.*	Stopper for chains and ropes.
2877	3*d.*	Matches and fusees.
2878	4*d.*	Printing bank notes, bills of exchange, &c.
2879	3*d.*	Iron.
2880	3*d.*	Preparation of leather in combination with india rubber, &c.
2881	3*d.*	Furnaces for the manufacture of iron and steel.
2882	7*d.*	Manufacture of screws.
2883	4*d.*	Cast steel.
2884	10*d.*	Apparatus for paying out or laying submarine telegraph cables, &c.
2885	5*d.*	Projectiles.
2886	6*d.*	Water meter and ships' log.
2887	3*d.*	Sewing machines.
2888	7*d.*	Galvanic batteries.
2889	3*d.*	Preparation of carton pierre, &c.
2890	3*d.*	Plating and gilding forks, spoons, &c.
2891	5*d.*	Submarine electric cables.
2892	10*d.*	Propellers for ships, &c.
2893	1*s.* 3*d.*	Fish joints for rails.
2894	3*d.*	Locomotive engines.
2895	3*d.*	Iron.
2896	7*d.*	Revolving fire-arms.
2897	8*d.*	Lubricators.
2898	6*d.*	Apparatus for roasting meat, &c.
2899	10*d.*	Looms.
2900	5*d.*	Gas burners.
2901	6*d.*	Registering the speed of engines, &c.
2902	1*s.* 1*d.*	Pumps.
2903	3*d.*	Cocks or stop valves.
2904	10*d.*	Dyeing textile fabrics, &c.
2905	7*d.*	Drying or airing linen, &c.
2906	3*d.*	Regenerating steam.
2907	5*d.*	Index or book and paper marker.
2908	6*d.*	Anchors.
2909	3*d.*	Stereoscopes.
2910	7*d.*	Spinning machine.
2911	3*d.*	Lanterns.
2912	3*d.*	Preparation and application of varnishes for waterproofing.
2913	5*d.*	Self-detaching safety hook or coupling.
2914	8*d.*	Lowering and raising boats.

No.	Price.	Subject-Matter.
2915	3*d.*	Drying yarns or fabrics, &c.
2916	7*d.*	Machine for pumicing felts, tissues, and skins.
2917	4*s.* 2*d.*	Drawing bristles, hair, and vegetable fibres.
2918	3*d.*	Order books.
2919	3*d.*	Brakes.
2920	6*d.*	Imparting reciprocating motion to pumps
2921	4*d.*	Cast steel.
2922	3*d.*	Furnaces and steam boilers.
2923	3*d.*	Jacquard machinery for weaving.
2924	11*d.*	Bridges.
2925	8*d.*	Granaries or apparatus for preserving grain.
2926	3*d.*	Fabrics for covering floors, walls, &c.
2927	3*d.*	Tables.
2928	3*d.*	Ships and vessels, &c.
2929	3*d.*	Grinding and rubbing surfaces.
2930	3*d.*	Ornamenting glass.
2931	3*d.*	Manufacture of neck ties, &c.
2932	3*d.*	Treating sugar cane for the manufacture of textile and other fabrics.
2933	9*d.*	Cordage, &c.
2934	3*d.*	Spinning, &c.
2938	3*d.*	Ordnance and projectiles.
2941	3*d.*	Fabrics for curtains, table covers, &c.
2943	3*d.*	Horse shoe nails.
2944	5*d.*	Vent peg.
2946	10*d.*	Looms.
2947	3*d.*	Brazing metal tubes in tube plates, &c.
2948	3*d.*	Gigs, dog carts, and other vehicles.
2949	3*d.*	Lamps.
2951	3*d.*	Ornamenting leather cloth.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Errata in Journal of 22nd July.

1635. For "Newzan" read "Newzam."

1636. For "Blois Chiche" read "Bloisbluche."

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Mornings - - - -	807
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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 581. FRIDAY, JULY 29, 1859. Price 2d.

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NOTICE is hereby given that Provisional Protection has been allowed

1495. To WILLIAM COLES FULLER, of No. 2, Bucklersbury, Cheapside, London, Patent Spring Manufacturer, for the invention of "Improvements in india-rubber shackles, and in springs for carriages, and the metal fittings connected therewith."

On his petition, recorded in the Office of the Commissioners on the 21st day of June, 1859.

1512. To GEORGE CHARLES GRIMES, of Wandsworth, in the county of Surrey, for the invention of "Improvements in cigar or such like lights, and in the means of producing them."

On his petition, recorded in the Office of the Commissioners on the 23rd day of June, 1859.

1546. To THOMAS WIGHT, of Middlesborough-on-Tees, in the county of York, Foundry Manager, for the invention of "Improvements in the apparatus used in the manufacture of cast metal pipes and castings, termed core bars or spindles and chaplets."

On his petition, recorded in the Office of the Commissioners on the 29th day of June, 1859.

1595. To CHARLES BARLOW, of No. 89, Chancery Lane, London, Patent Agent, for the invention of "Improvements in capstans."—A communication from abroad, by Samuel Huse, of Boston, United States of America.

1596. And to ARSÉNE BEAULIEU, of No. 25, Rue du Chemin de Fer, Porte de Cologne, Brussels, in the kingdom of Belgium, Mechanical Engineer, for the invention of "Improvements in crinolines, and in machinery for manufacturing springs for such and other purposes."—A communication from abroad, by Henri Theodore Van Eycken, a person resident at Rue Terre Neuve, No. 25, Brussels.

On both their petitions, recorded in the Office of the missioners on the 5th day of July, 1859.

1604. To CHARLES HAGAN, Clerk of Works, Tower of London, for the invention of "Improvements in apparatus for curing smoky chimneys, and preventing down draught."

1606. And to SAMPSON LLOYD, of Wednesbury, Staffordshire, for the invention of "Improvements in the manufacture of cast steel tyres."

On both their petitions, recorded in the Office of the Commissioners on the 6th day of July, 1859.

1616. To JOHN SMITH, of Norton Street, Cherry Square, New Radford, in the county of Nottingham, Lace Manufacturer, for the invention of "Improvements in propelling ships and other vessels."

On his petition, recorded in the Office of the Commissioners on the 7th day of July, 1859.

1634. To WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural Implement Maker, for the invention of "Improvements in machines for making and collecting hay, and for cutting thistles and weeds, which improvements in whole or in part are applicable to other agricultural implements where teeth or tines are used."

On his petition, recorded in the Office of the Commissioners on the 8th day of July, 1859.

1640. To WILLIAM MAC KEAN, of Paisley, in the county of Renfrew, Scotland, Starch Manufacturer, for the invention of "Improvements in the manufacture or treatment of farinaceous matters for the obtainment of starch and food."

On his petition, recorded in the Office of the Commissioners on the 9th day of July, 1859.

1651. To Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "Imitation leather." — A communication from abroad by Auguste Legeay, No. 10, Rue Mogador, Paris, in the empire of France.

1655. And to George White, of Mansfield, in the county of Nottingham, Schoolmaster, for the invention of "Improvements in apparatus for counteracting the effects of collisions in railway trains."

On both their petitions, recorded in the Office of the Commissioners on the 12th day of July, 1859.

1657. To Charles Samuel Walker and Robert Hoyle, both of Bury, in the county of Lancaster, Engineers, for the invention of "Improvements in machinery or apparatus for promoting the consumption of smoke in steam boiler and other furnaces, and for preventing the explosion of steam boilers."

1658. To Allan Cooper, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in the manufacture of the grips of swords and sword bayonets."

1659. To James Strang Thomson, of Kilmarnock, in the county of Ayr, North Britain, Manufacturer, for the invention of "Improvements in steam engines."—A communication from abroad by Henry Blandy and Frederick T. L. Blandy, of Zanesville, United States.

1660. To William Cotton, of Loughborough, in the county of Leicester, Manufacturer, for the invention of "Improvements in means or apparatus for connecting together or uniting looped fabrics."

1661. To James Combe, of Belfast, for the invention of "Improvements in machinery for hackling flax and other fibrous substances."

1662. And to John Taylor, of Roupell Park, Streatham Hill, in the county of Surrey, for the invention of "Improvements in stoves and fireplaces, and in the arrangement of flues connected therewith."

On their several petitions, recorded in the Office of the Commissioners on the 13th day of July, 1859.

1663. To William Walker, of Liverpool, in the county of Lancaster, Patent Agent, for the invention of "Improvements in the manufacture of metallic packages, and in machinery for manufacturing the same."—A communication from James Wilson, Charles Green, and William Wilson, the younger, all of whom reside at Wilmington, in Newcastle county, in the state of Delaware, one of the United States of America, and are citizens of the United States of America.

1664. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "Improvements in the manufacture of shot and shell and other projectiles."

1665. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, "A new or improved manufacture of certain metallic compounds or alloys."

1666. To Joseph Atkinson, of Lancaster, in the county of Lancaster, Gun Manufacturer, for the invention of "Improvements in fire arms."

1667. To John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the manufacture of artificial fuel."—A communication from abroad by Monsieur de la Fenestre, of 24, Rue Meslay, Paris, in the empire of France.

1668. To Joseph Morgan, of Manchester, for the invention of "Improvements in apparatus for making candles."

1669. To John Bailey, of Manchester, in the county of Lancaster, Manager, for the invention of "Improvements in machinery or apparatus for stretching woven fabrics."

1670. And to Richard Longstaff, at Mornington Road, New Cross, in the county of Kent, Pattern Maker, and Abraham Pullan, of Fortie Cottage, New Cross, in the same county, Engineer, for the invention of "Improvements in traction or locomotive engines."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of July, 1859.

1671. To Christopher Kingsford, of Seaton, near Wingham, in the county of Kent, Civil Engineer, for the invention of "Improvements in the preparation of peat and charcoal for fuel, in the manufacture of coke therefrom, and in the machinery and apparatus employed for effecting the same."

1672. To William Clark and William Williams, of the city of Manchester, in the county of Lancaster, for the invention of "Improvements in finishing woven fabrics."

1673. To Frederick Brown, of City Road, in the county of Middlesex, for the invention of "The preparation and manufacture of a new fibrous pulp for making paper, and for other useful purposes."

1674. To Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "New or improved methods of manufacturing a certain metallic compound or alloy."

1675. To Hector Grand de Chateauneuf, of Paris, France, Civil Engineer, for the invention of "An improved coverlet called zephyr-eider-down coverlet."

1676. To John Prentice Farrar, of New York, in the United States of America, Gentleman, for the invention of "Improvements in the treatment of iron."

1677. To William McAndrew, of No. 57, King William Street, in the city of London, and Charles Wilson Boyd, of Sochia, Asia Minor, for the invention of "Improvements in treating poppies, to obtain a product resembling opium therefrom."

1678. To William Orme Carter, of No. 12, South John Street, Liverpool, in the county of Lancaster, for the invention of "Improvements in machinery for sawing slate."

1679. And to Frederic Prince, of No. 138, New Bond Street, in the county of Middlesex, Gun

Maker, for the invention of "An improvement in breech-loading firearms."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of July, 1859.

1680. To JOHN MUSGRAVE, junior, of the firm of John Musgrave and Sons, Globe Iron Works, Bolton-le-Moors, in the county of Lancaster, Engineers, for the invention of "Improvements in the construction of steam boilers."

1681. To JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for the invention of "Improvements in the construction and arrangement of hydraulic and other pumps, for forcing liquids and for obtaining pressure."

1683. To CHRISTOPHER POTTINGER, of Anstruther, in the county of Fife, North Britain, Boat Builder, for the invention of "Improvements in machinery or apparatus for dredging or excavating, and for driving piles."

1684. To HENRY CUNNEW, of the Triangle, Hackney, in the county of Middlesex, Manufacturer, for the invention of "Improvements in elastic bands."

1685. To PAUL AUGUSTIN AMÉDÉE TROUTTET, of Dijon, in the empire of France, Gentleman, for the invention of "A new moveable stopper for gaseous liquids."

1687. To WILLIAM MORRIS SMITH, of Northampton, Gentleman, for the invention of "The construction of fare-boxes for the prevention of fraud on the part of drivers, conductors, &c."—A communication from abroad by J. B. Slawson, of New Orleans, in the state of Louisiana, in the United States of America.

1688. To MYRON HOLLEY CHAPIN, of Boston, in the state of Massachusetts, in the United States of America, but now residing in Manchester, in the county of Lancaster, Merchant, for the invention of "Improvements in the manufacture of galloons, tapes, or ribbons for supporting steel or other hoops used for distending ladies' dresses."

1689. And to THOMAS CARLIELL, of Union Street, Portsea, Hampshire, for the invention of "Improvements in vent pegs."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of July, 1859.

1691. To JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for the invention of "Improvements in the manufacture of boots and shoes and the means employed therein."

1692. To HENRY CHRISTOPHE MARTIN CRAMER, of Paris, France, Joiner, for the invention of "Improvements in bedsteads."

1693. To JAMES SHAW, of Teignmouth, in the county of Devon, for the invention of "Improvements in the manufacture of artificial fuel."

1694. To ANDREW PHILLIPS, of Glasgow, in the county of Lanark, North Britain, Gentleman, for the invention of "Improvements in weaving carpets and in the machinery or apparatus to be used therein, parts of which machinery or apparatus are applicable to the weaving of other fabrics."

1695. To WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, for the invention of "Improvements in apparatus employed in getting ships anchors and in shackling chains."

1696. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the method of constructing and operating batteries for generating or exciting, by chemical action, electricity for telegraphic purposes." — A communication from abroad by Thomas C. Avery, of New York, in the United States of America.

1697. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in the manufacture of india rubber, and other like fabrics."—A communication from abroad by Jonathan Thompson Trotter, of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 18th day of July, 1859.

1699. To FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, for the invention of "Improvements in extracting oils from coal and other minerals." — A communication from abroad, by David Alter, and Samuel A. Hill, of Pittsburgh, in the United States North America.

1700. To JAMES SHANKS, of Arbroath, in the county of Forfar, North Britain, Machinist, for the invention of "Improvements in mowing machines."

1701. And to HENRI PARENT, of Roubaix, in the empire of France, Manufacturer, for the invention of "Improvements in or applicable to looms for weaving."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of July, 1859.

1703. To JAMES ERSKINE, of Newton Stewart, North Britain, Gun Maker, for the invention of "Improvements in breech loading fire arms."

1705. To WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, Patent Agents, of No. 4, Wellington Street South, Strand, in the county of Middlesex, for the invention of "Improved apparatus for the prevention of accidents in mines, to be called a mining parachute."—A communication from abroad, by Mr. Fontaine, of the mines of Anzin, département du Nord, in the empire of France.

1707. To the Right Honorable, JAMES Earl of CAITHNESS, of Hill Street, in the county of Middlesex, for the invention of "Improvements in the permanent way of railways."

1709. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in self-acting lithographic printing machines."—A communication from abroad, by William Hermann Stübbe, of Boston, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 20th day of July, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

29th July, 1859.

283. Samuel Birchall Eveleigh, of Salford, in the county of Lancaster, Hat Manufacturer, for an invention of "An improved form or construction of hats or covering for the head."—Dated 1st February, 1859.

284. Richard Needham, of Dukinfield, in the county of Chester, Engineer, for an invention of "An improved water-gauge for steam boilers."—Dated 1st February, 1859.

290. George Arthur Waller, of the city of Dublin, Brewer to Arthur Guinness Son and Co., for an invention of "Improvements in the means of and apparatus for expressing liquid from semi-fluid substances and other substances containing liquid."—Dated 1st February, 1859.

296. Edward Ellis Allen, of Brompton Row, in the county of Middlesex, Engineer, for an invention of "Improvements in stereoscopic apparatuses."—Dated 2nd February, 1859.

304. John Hirst, junior, of Dobscross, in Saddleworth, in the county of York, Merchant, and James Hollingworth, of the same place, Joiner, for an invention of "Improvements in the construction of power looms."—Dated 2nd February, 1859.

305. George Leach, of Leeds, in the county of York, Yarn Spinner and cloth manufacturer, for an invention of "Improvements in leashing yarn or thread in the hank, and in machinery for winding off the same."—Dated 2nd February, 1859.

357. Alexander Clark, of Gate Street, Lincoln's Inn Fields, in the county of Middlesex, Engineer and Revolving Shutter Manufacturer, for an invention of "Improvements in revolving shutters and blinds, and in apparatus connected therewith."—Dated 8th February, 1859.

427. Richard Cookson, of Layton Hawes, near Blackpool, in the county of Lancaster, Gentleman, and Charles William Homer, at Castle Hill, near Northwich, in the county of Chester, Civil Engineer, for an invention of "Improvements in machinery for making bricks, tiles, tubes, and other articles of plastic materials, and in the mode of jointing drain pipes."—Dated 16th February, 1859.

489. Augustus William Smethurst, of Chorley, in the county of Lancaster, Cotton Spinner and Manufacturer, for an invention of "Improvements in machinery for driving looms for weaving."—Dated 23rd February, 1859.

745. Pierre Paul Boll, of Paris, in the French empire, Gentleman, and Hermann Reger, of Cologne, Gentleman, for an invention of "Improvements in steam boiler and other furnaces."——A communication from Antoine Speich, residing at Strasbourg.—Dated 23rd March, 1859.

1317. Bernhard Samuelson, of Banbury, in the county of Oxford, for an invention of "Improvements in machines for cutting roots and other vegetables."—Dated 28th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 26th July*, 1859.)

1820. William Wood, of Monkhill, near Pontefract, in the county of York, Gentleman, and Matthew Smith, of Heywood, in the county of Lancaster, Manufacturer, for an invention of "Improvements in looms for weaving terry and cut pile fabrics."—Dated 1st August, 1856.

1821. William Wood, of Monkhill, near Pontefract, in the county of York, Gentleman, and Matthew Smith, of Heywood, in the county of Lancaster, Manufacturer, for an invention of "Improvements in apparatus for cutting the wires out of terry fabrics."—Dated 1st August, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 12th July, 1859, and each bearing that date.

No. 24,708. E. H. Angamar, of New Orleans, La., for an "Improvement in mode of staying piles for wharves, piers, &c."

"I claim, in combination with the piles, the frames *s*, *s*, and sleeves *a*, and the braces *b*, when made and arranged as or substantially as and for the purpose set forth."

No. 24,709. Steuben T. Bacon, of Boston, Mass., for an "Improvement in locks."

"I claim the construction of one or more pistons or drivers, or both, also one or more holes in the rotating tumbler or surrounding cylinder, or both, substantially as and for the purpose specified."

No. 24,710. Steuben T. Bacon, of Boston, Mass., for an "Improvement in bank and safe locks."

"I claim, 1st, arresting and holding the tumbler in an exact locked position. 2nd, preventing the displacement of the tumbler in the direction of unlocking by means of pins (*l*, *l*, *l*, *l*,) in combination with the sliding bottom key-hole guard and the tenons. 3rd, preventing the displacement of the tumbler at and beyond the locked position by means of the slotted collar, in combination with the cylinder, the tumbler, and the tumbler pin. 4th, preventing the displacement of the tumbler inwardly by means of the collar, in combination with the cylinder and the bolt of the lock.

5th, enlarging the piston holes throughout the lock, for the purpose specified. 6th, enlarging the holes in both tumbler and cylinder in each direction from the dividing line between them, for the purpose specified. 7th, constructing the key-hole guard of two or more pieces of metal hardened, for the purpose specified. 8th, making one or more air chambers between the several parts of the key-hole guard, for the purpose specified. 9th, dividing the air chamber or chambers with one or more narrow ridges, for the purpose specified."

No. 24,711. Joseph M. Batchelor, of Foxcroft, Me., for an "Improvement in lamps."

"I claim the arrangement and combination of adjustable tube B with the wick L, button spindle F, spur wheels D, J, and friction spring H, or the equivalents thereof, as set forth."

No. 24,712. John T. Bever, of Haynesville, Mo., for an "Improvement in devices for training pea vines."

"What I claim is, the posts B, B, when forming a box, as described, and combined with cords *g*, *g*, rope *f*, and pegs *h*, *h*, the whole constructed and arranged in the manner and for the purposes set forth."

No. 24,713. Daniel Edwd. Bishop, of New York, Y. Y., for an "Improvement in railroad chairs."

"What I claim is, the formation of a bridle A in the centre of the continuous lift D of a railroad chair, constituting a new article of manufacture, as described."

No. 24,714. J. L. Booth, of Cuyahoga Falls, Ohio, for an "Improvement in grain separators."

"I claim the box A provided with an inclined bottom or flooring and adjustable strips or valves, arranged to operate substantially as and for the purpose set forth."

No. 24,715. J. Borton, of Middlebourne, Ohio, for an "Improvement in rat traps."

"What I claim is, the combination of the spring doors D, D, rods O, O, dog *d*, and rod *r*, when arranged substantially in the manner and for the purpose set forth."

No. 24,716. Chas. B. Bristol, of Naugatuck, Conn., for an "Improved combination of flesh fork and skimmer."

"What I claim as my invention, and desire to secure by Letters Patent as a new article of manufacture, is, the combination of the fork and skimmer, when constructed, attached, and fitted for use, substantially as herein described."

No. 24,717. J. H. Butler and P. G. Van Houten, of Cohocton, N. Y., for an "Improved mode of operating farm gates."

"But what we claim is, actuating the traps L, L, by means of the weight M and cord *o*, arranged in combination with the lever F, or its equivalent, for operating automatic gates, substantially in the manner and for the purposes shown and described. We also claim the construction and operation of the double-acting latch I in combination with an automatic gate for carriages, substantially in the manner and for the purpose set forth."

No. 24,718. Ansel Cain, of Holyoke, Mass., for an "Improvement in walking canes."

"What I claim is, the combination of the lamp, constructed and arranged in the manner described, with the walking cane, for the purpose herein set forth."

No. 24,719. James H. Case, of Lyons, N.Y., for an "Improvement in hanging the bodies of vehicles."

"What I claim is, the combination of the metallic springs with thorough braces, substantially in the manner and for the purpose herein set forth. I also claim the combination and arrangement of the combined thorough braces *a*, *b*, with the circular body E, and supplementary spring G, substantially as and for the purpose herein described."

No. 24,720. Matthew Chambers, of New York, N.Y., for an "Improvement in skirt supporters."

"I claim combining with and securing to a corset band extending in the rear, or in the rear and front downwards from the waist, to clasp the body around the hips of the wearer, the framework of a skirt or bustle, when said framework is composed of hoops, disconnected and fastened in front or thereabouts, substantially as described and for the purposes set forth herein."

No. 24,721. Denison Chesbro', of Syracuse, N.Y., for an "Improved mode of telegraphing from R. R. cars while moving."

"I claim the combination of a sufficient number of pendents, arranged as described, and each having a movable vertical tongue, as described, and so constructed as to admit of a telegraph wire being attached to each of them in the particular manner specified, with the metallic plates, wood scantling, or equivalent, and conducting internal wires attached to the roof of a railroad car, the whole being constructed, operated, and operating in the manner herein-before described, and for the purposes set forth."

No. 24,722. Wm. A. Clark, of Bethany, Conn., for an "Improved device for fastening cutters of hollow augers."

"I claim the angle wedge *e*, in combination with the cutters, face plate, screws *c*, and ledges *h*, substantially as described and for the purposes set forth."

No. 24,723. David Cook, of New Haven, Conn., for an "Improved fruit basket."

"I claim making a metal bound wooden fruit basket, either plain or ornamental, when constructed and fitted for use, substantially as herein described."

No. 24,724. John Davis, of New Bedford, Mass., for an "Improved mode of connecting the ends of railway bars."

"I claim, 1st, connecting the rails of railroads, in continuous chains with hinge joints, in any practical mode. Second, I claim securing the rails in the couplings, by inserting wedges longitudinally under the rails, and clinching their margins. Third, I claim wedge D^2, in Fig. 2, to secure wedge D^3, in Fig. 3, and vice versâ, by means of the hinge joint or bolt C, in Fig. 1."

No. 24,725. Perry Davis, of Providence, R. I., for an "Improvement in the wheels of buggy boats."

"I claim arranging paddles upon the spokes of the wheels of a buggy-boat, so that the said wheels perform the two-fold purpose of paddle-wheels and carriage-wheels, substantially in the manner and for the purposes above set forth."

No. 24,726. Willard C. Ellis and John N. White, of Springfield, Mass., for an "Improvement in revolving fire-arm."

"We claim the projection C at the bottom of the chambers of the cylinders, on which the fulminate of the cartridge rests, and is struck by the hammer in the discharge. Second, we claim the flange B of the cartridge, parallel with the barrel, the two in combination, for the purpose herein specified."

No. 24,727. Lewis C. England, of Owege, N. Y., for an "Improvement in apparatus for tanning."

"I claim, in combination with the leach vat, and the conveyor trough, the pair of rollers to crack the wet bark before it is delivered into the leach vat, substantially as set forth."

No. 24,728. Daniel Fitzgerald, of New York, N.Y., for a "Fireman's ladder."

"I claim, 1st, suspending a ladder upon the standard E, so that it may be elevated and turned in any direction, constructed and arranged substantially as above described, 2nd, the arrangement of the branch pipes C with the stop cocks K, for use at various heights, as above described. 3rd, I also claim making the main pipe B serve as a hand rail to the ladder, and to give it stiffness, by setting it up a little above and parallel to it, as above described."

No. 24,729. W. A. Foster, of Chester, Conn., for an "Improved method of hanging pictures, looking glasses, &c."

"I claim adjusting picture frames, or mirrors, to different positions and at different angles, by means of a central hinge and levers, substantially as described for the purposes set forth."

No. 24,730. M. I. Gallager and Wm. H. Gladding, of Savannah, Geo., for an "Improvement in breech-loading fire-arms."

"We claim forming the chamber in the barrel and breech of the gun, of the shape of two frustrums of cones, or of a

frustrum of a cone, and a section of a parabolic spindle whose bases meet at or near the line of the joint between said barrel and breech, for the purpose of containing a cartridge case of the form, substantially as that herein, represented."

No. 24,731. Joseph Gasser, of Toledo, Ohio, for an "Improved clothes frame."

"I claim the arrangement of the braces D, and arms E, in connection with the standard A, and legs C, substantially as set forth."

No. 24,732. David Glover, of Cass Township, Pa., for an "Improvement in dumping car."

"I claim the construction of a revolving tip, placed upon a movable frame or truck, the side pieces of which form, at a certain stage of the operation, a continuation of the main track or foundation, by means of which the waggon or car can be taken without handling from the main track or foundation, with the load moved to the place required, and there dumped in any direction, substantially as and for the purposes set forth."

No. 24,733. Freeman Godfrey, of Grand Rapids, Mich., for an "Improved shingle machine."

"I claim the cams G, G, gearing into rack bars, F, F, attached one to each end of the carriage E, said arms being fitted in a yielding or adjusted centerpoised frame I, and operated from the power lever D, through the medium of the pawl O, ratchet M, and gearing *l*, *m*, substantially as and for the purpose set forth."

No. 24,734. Wm. Goodale, of Clinton, Mass., for "Machine for making paper bags."

"I claim, 1st, making the cutter which cuts the paper from the roll, or piece, of the form herein described, that in cutting off the paper it also cuts it to the required form to fold into a bag, without further cutting out. 2nd, the attachment of the former F directly to the cutter to operate in combination therewith, and with a folding table C, substantially as herein described. 3rd, the within-described mode of applying and arranging the paster *f*, to operate in combination with the folding table C and former F. 4th, the construction of the side lappers with angular ends *e*, *e*, substantially as described, for the purpose of partly folding the sides of the bag. 5th, the knock-off I, operating in combination with the former, substantially as and for the purpose described. 6th, the vibrating frame J, with its rollers *i*, *i*, operating in combination with the former and the knock-off, substantially as and for the purpose herein described. 7th, the arrangement of the table, the cutter, the former, the side lappers, the bottom paster, the knock-off, and the vibrating frame J, to operate in relation to, and in combination with each other, substantially as described."

No. 24,735. Darwin A. Greene, of New York, N. Y., Administrator of Elias Davis, deceased, late of New York, aforesaid, for an "Improved machine for splitting fire-wood."

"I claim the slabbing knife *a*, and splitting knives *b*, *c*, *d*, *e*, *f*, as secured to one cross head O, acting simultaneously at the forward movement of the latter, substantially as described, and for the purpose set forth."

No. 24,736. Tobias Grodjinski, of New York, N. Y., for an "Improvement in dry gas meters."

"But what I claim is, attaching each pair of the plates (B, B^1,) or their substantial equivalents, to the flexible part (C) of the diaphragms of dry gas meters, by overlapping parts of the one upon the other, substantially in the manner and for the purpose set forth and described."

No. 24,737. Geo. Hensel, of New York, N. Y., for an "Improvement in sewing machines."

"I claim the construction of the disk W, with an elastic plate R attached and operated by means of a cam, in the manner and for the purpose substantially as set forth."

No. 24,738. S. Emilius Hewes, of Albany, N.Y., for an "Improvement in stoves."

"I claim a revolving fire-pot, arranged to traverse perpendicularly, or to be raised and lowered, substantially as described, for the purpose of supplying air to, and shutting it from the openings in the sides of the fire, so as to effect a ready and perfect combustion and consumption of the fuel."

No. 24,739. H. J. Holmes, of Warren, Mass., for an "Improved clothes frame."

"What I claim, is, a series of vertical frames, one of which has permanently affixed to it a foot piece A, and cap B, when said cap and foot pieces form suitable bearings for other frames, arranged and operating as and for the purpose set forth."

No. 24,740. John P. Hughes, of Spout Spring, Va., for an "Improvement in water wheels."

"I claim making the water arms in sections, essentially as described, for the purpose set forth."

No. 24,741. Anthony Iske, of Lancaster, Pa., for an "Improvement in dumping wagon."

"I claim the drop door D, with its lever E, the partitioned box A, with its rack bar *c* on the bottom, the handled spindle L, K, for moving the same, as specified, when the several parts are combined, as and for the purpose set forth."

No. 24,742. John W. Kennedy and John F. Plummer, of Plainfield, Conn., for an "Improvement in machines for dressing millstones."

"What we claim, is, the arrangement and combination of the arbor Q, forked arm (S), spring T, shaft U, ratchet and pawl V, W, wiper N, bar A, movable case G, shaft K, and adjustable plate *o*, as and for the purpose herein shown and described."

No. 24,743. J. Kurtzeman, of Lancaster, Pa., for an "Improved head-block for saw mills."

"I claim the sliding rack bar placed longitudinally in the carriage A, and adjusted therein by the wedges *e*, *e*, in connection with the gearing H, I, F, whereby the two sides C, C, may, by a suitable adjustment of the wedges be actuated both simultaneously and separately, as may be desired."

No. 24,744. Wm. Lance, of Olney, Ill., for an "Improved method of constructing mallets."

"What I claim is, the manner of their construction and arrangement, as shown and described, for the uses and purposes set forth."

No. 24,745. John K. Leedy, of Woodstock, Va., for an "Improvement in bee-hives."

"I claim, 1st, the boxes (*e*), constructed and arranged in the manner and for the purpose herein specified. 2nd, I claim, in combination with the boxes (*e*) the pipes E, E, and *a*, *b*, *c*, and their faucets, all arranged in the manner and for the purpose herein set forth."

No. 24,746. Robt. H. Long, of Philadelphia, Pa., for an "Improved salimometer."

"I claim the means of drawing into a vessel water from the steam boiler, as a means to facilitate testing the density of the water in the same, constructed and arranged for the purpose substantially as set forth."

No. 24,747. A. G. Mack, of Rochester, N.Y., for an "Improved life-preserving raft."

"I claim surrounding a cask or chamber A with conical floats B, arranged radially with said chamber and hinged thereto, and covering the cone with canvas, or other suitable material, and bracing the whole together by a rope suitably arranged, all substantially in the manner and for the purposes herein specified."

No. 24,748. John Masury, of Brooklyn, N.Y., for an "Improvement in paint cans, &c."

"I claim the construction of a metallic can, for hermetically sealing paints and other substances, having attached thereto a rim or ring of thin brass, or other soft metal, in such a manner that the top or cover may be removed, by severing the said rim or ring of brass or other soft metal, with a pen knife, or other sharp instrument, in the manner and for the purposes herein described and represented, or its equivalent."

No. 24,749. A. A. McMahen, of Oxford, Miss., for an "Improvement in earth boring augers."

"I claim bracing the two ends of the spiral portion of the auger, by means of the central rod E, substantially in the manner and for the purposes herein described. I also claim the manner of securing the boring tools F, G, rod H, to the spiral D, by which they may be removed and replaced, without making any changes on the spiral D, substantially in the manner and for the purposes described."

No. 24,750. Anton Menge, of Point a la Hache, La., for an "Improvement in dredging machine."

"I claim, 1st, the bucket frame B, when resting upon adjustable casters or friction rollers, and operated so as to be swung from right to left of the boat, upon a circular track *b*, in combination with the oscillating shaft C, all arranged and operating substantially in the manner and for the purposes herein set forth. 2nd, I claim the buckets F, having a hinged back T, arranged and operating for the purposes specified."

No. 24,751. F. O. More, of Bellefontaine, Ohio, for an "Improvement in preserve cans."

"I claim the peculiarly formed cap B, in combination with the curved spring lip E."

No. 24,752. Z. N. Morrel, of Cameron, Texas, for an "Improved portable oven."

"I claim forming the pin on the handle, on the cover of Dutch ovens, or skillet, in combination with the tube under the centre of the fryingpan or gridiron, substantially as and for the purposes herein set forth."

No. 24,753. Chas. Neer, of Albany, N.Y., for an "Improved dynamometer."

"I claim the combination of the rigid arm or arms *c*, and yielding incline or inclines *d*, with the loose pulley *a*, or its equivalent, whereby the power exerted to rotate the shaft *a*, is denoted by the motion resulting from the pressure against said yielding incline or inclines for the purpose of forming a rotary dynamometer, substantially as specified. I also claim the revolving and sliding cone *h*, adjusted in its position according to the power applied from the pulley *a*, to the shaft *b*, when combined with a registering apparatus, substantially as set forth, to record the amount of power made use of, as described."

No. 24,754. Charity Pendleton, of Galena, Ill., for an "Improved washing machine."

"I claim, 1st, the combination of the two horizontal bars or rails J and M, having a circular reciprocating motion with the fixed corrugated cylindric surface forming the bottom of the machine, and having its axis coincident with the axis of motion of the said bars J and M, the parts being constructed and arranged as herein before described, and operating so as to produce the effect previously stated. 2nd, the combination of the slot or mouth K, in the arm D, and the tenon I, I^1, at the ends of the corrugated rubbing bar M, with the perforated bar J, by which the portion of the said corrugated rubbing bar M may be altered, with respect to the bottom of the machine, so as to increase or diminish its distance therefrom, substantially as set forth, and without altering the position of the bar J. 3d, the combination of the corrugations on the lower surface of the rubbing bar M with similar corrugations on the bottom or concave of the machine, but so arranged that the direction of the two sets of corrugations will be at right angles to each other, as herein-before more fully described, and for the purpose set forth."

No. 24,755. Peter Philip, of Ghent, N. Y., for an "Improved method of operating windlasses when applied to hay presses, &c."

"What I claim is, 1st, attaching the wheel, or table C, to the capstan A, so as to be operated upon by the loose or boom sweep B, as a brake for the purpose of stopping the press at any point of descent, while being filled, and of regulating and controlling the motion of the capstan in the uncoil. 2nd, providing the capstan A, with the arms *e*, e^1, and the loose or boom-sweep B, in combination with the check lever D, substantially in the manner and for the purpose herein set forth."

No. 24,756. Daniel Quimby, of Littleton, N. H., for an "Improved machine for boring hubs."

"I do claim the shaft A, the boss B, placed on said shaft and provided with a conical bore *d*, and having the collar *p* and arms *q* attached, the screw rod C, connected with the collar *p* by the gearing *n*, *o*, and provided with the divided nut D, attached to the upright *f*, the whole being arranged to operate substantially as and for the purpose set forth. I further claim, in combination with the parts above named, the convex projection *m*, placed on the shaft A, to operate as and for the purpose specified."

No. 24,757. P. D. Richards and F. N. Thayer, of New Orleans, La., for an "Improved pocket register of count."

"We claim the construction and arrangement of a hand operating tally, specifically as described, consisting of three indexes and corresponding wheels, to indicate count, as specified, the whole being operated by a projecting stud (G), and spring brake (I,) with its gage (S), for the purpose herein set forth."

No. 24,578. John Richardson, of New York, N. Y, for an "Improvement in pen and pencil cases."

"I claim the arrangement of the spire-grooved sleeves, and their connection with the penholder and pencil, and also with the outer shell of the case substantially as described, for the purpose as set forth."

No. 24,759. John Robertson, of Brooklyn, N. Y., for an "Improvement in hydrostatic lifting jack."

"I claim the employment of the exterior movable hydraulic cylinder E, with toe-piece upon its surface, in combination with the standard B, which serves also as piston and eduction pipe, as and for the purpose herein shown and described."

No. 24,760. Wm. G. Russell, of Winchester, Va., for an "Improvement in self-detaching whiffle tree."

"What I claim is, a swingle or whiffle tree, provided with a lever turn bar *e*, *e*, *e*, *e*, *f*, *f*, *g*, *h*, *h*, as shown in Figure 3, together with the spring clasp *o*, *o*, Figures 1, 4, 5, and the hinged or jointed hooking ferrules K, K, L, L, *n*, *n*, when constructed and arranged substantially as herein set forth and described."

No. 24,761. Silas T. Savage, of Albany, N. Y., for an "Improvement in coal sieves."

"I claim the employment of the two half globes A and B, in which there are interstices *c*, *c*, *c*, as a coal sifter, when said half globes are provided with grooves *b*, *b*, tongues *a*, *a*, and shoulders *x*, *x*, the same being used in connection with a box or cylinder, by means of which the two portions of the globe are prevented from moving endwise of the trunnions, and are prevented from separating, substantially as set forth."

No. 24,762. J. W. Schmidt, of Philadelphia, Pa., for an "Improved sewing machine."

"I claim the combined arrangement of the stationary frame (A), fitted with the adjustable holders (*d*, *e*, and *u*,) as described, and the saw carriage (B), operated by the crank (*o*), shaft (f^4), spur wheels (l)(l), shaft (*m*), and rope or chain (*n*), as set forth and described, whilst the saw (*k*) is, at the same time, rotated through the media of the gear wheel (*f* and *g*,) pulley (*h* and *i*), and band (7), arranged and combined as set forth and described, the said stationary frame (A) and the said moving saw carriage (B) operating together, as and for the purpose set forth and described."

No. 24,763. Cornelius R. Shaeffer, of Gettysburgh, Pa., for an "Improved machine for making hand rails for stairs."

"I claim the combination of the perpendicular square post erected upon the base A, with the draught board B, pitch board G, rod C, and arm D, the several parts being arranged substantially as and for the purpose set forth."

No. 24,764. Reuben Shaler, of New Haven, Conn., for an "Improved confectionary safe."

"I claim the confectionary safe above described, constructed substantially as specified, as a new and useful article of manufacture."

No. 24,765. Geo. F. Shaw, of Woburn, Mass., for an "Improvement in corn huskers."

"I claim the combination and arrangement of the cylinder E and concave roller C, substantially as set forth, and for the purposes described."

No. 24,766. Christian Shunk, of Canton, Ohio, for an "Improvement in refining iron."

"I claim the use of the external crucible or hearth, having the twier pipe C, the projecting stone D, and the escape pipe E, constructed as described, operating in such a manner that the blast shall deflect from the side of the upright stone, and produce a rotary movement in the melted metal for the purpose of refining the sauce, as specified."

No. 24,767. JOSEPH SIDDALL, of Philadelphia, Pa., for an "Improvement in threshing machines."

"I claim the combination of flails F, roller E, slides C, and straps *g*, when said flails are constructed with the flexible joints J, the arrangement and operation being substantially as and for the purpose set forth."

No. 24,768. MICHAEL TROMLY, of Mount Vernon, Ind., for an "Improvement in lock for fire-arm."

"I claim, 1st, the combination of the hooks G^2, I, or their equivalents, respectively formed on the claw G^1 of the link G, and the trigger K, substantially as described. 2nd, I also claim widening the upper end of the trigger K, so as to form a projection K in front, whose lower curved edge shall operate on the curved surface of the claw G^1, in the manner and for the purpose set forth."

No. 24,769. I. L. G. WARD, of Adrian, Mich., for an "Improvement in artificial stone."

"I claim a cement, composed of pumice stone, silicate of soda, fluor spar, and Roman cement, as herein set forth."

No. 24,770. OLIVER N. WEAVER, of Dover, Ky., for an "Improvement in preserving cans."

"What I claim is, the perforated elastic plug D, *d*, secured in the top of a provision can, in the described combination, with a nozzle E, and tube F, communicating with an exhausting chamber, substantially as set forth."

No. 24,771. LOREN WETMORE, of Tioga county, Pa., for a "Trap for animals."

"What I claim is, the peculiar construction and arrangement of the manifold trap, substantially as set forth. 2, I claim the arrangement of the trip C, provided with a fulcrum or fulcra *c*, guide pin *e*, and arched wire D, for operating substantially as set forth."

No. 24,772. JAMES WILSON, CHAS. GREEN, and WM. WILSON, jr., of Wilmington, Del., for an "Improvement in attaching the heads of metallic powder kegs, &c."

"What we claim is, the double seaming of both heads of the keg, and the opening in one head, in the manner substantially as above described."

No. 24,773. ARCALOUS WYCKOFF, of Elmira, N.Y., for an "Improved hollow auger."

"What I claim is, combining the transverse auxilliary cutters *d*, *d*, with the prime cutters *a*, *a*, and elliptic opening of the annular cutter head, as described, substantially as and for the purpose herein set forth."

No. 24,774. PETER ALTMAIR, of Lewistown Pa., assignor to himself and Myron M. Faxon, of Lewistown aforesaid, for an "Improvement in breech-loading fire-arms."

"What I claim is, in combination with a fixed breech-piece, a hinged barrel, so arranged as that the said barrel shall swing upward, and expose the chamber of the breech-piece below the rear end of the barrel for inserting the charge substantially as herein described and represented."

No. 24,775. ROBT. M. CAMPBELL, of East Cambridge, Mass., assignor to himself and Benjn. S. Wright, of Boston, Mass., for a "Money drawer alarm."

"I claim the combination and arrangement of the two levers F, G, and the spring latch E, with the clock alarm apparatus D, the striker *a*, and bell *b*, and the combination of the same, and a series of perforated key slides, and a set of T bars applied together and to such levers, so as to actuate the same, substantially as specified. I also claim the combination and arrangement of the T bars, and the perforated key slides, to operate in manner as described. I also claim, in combination with the key lock M, and the T bar I, a latching apparatus placed in the case K, and constructed so as to lock both the cover and the T bar, or either, substantially as specified. I also claim the combination of the detector, or indicator, with the case cover and the T bar H, and operated in manner as specified."

No. 24,776. SAML. GREEN, of Lambertville, N.J., assignor to himself and W. R. Green, of Philadelphia, Pa., for an "Improved safety apparatus for city railroad cars."

"I claim the swinging frame (C) in connection with the bolt (*l*) and cover (*v*), the brake blocks (D, D,) in connection with the chairs (*r*, *r*), and rods (*t*, *t*), and the stationary supporting piece (*n*), the same or their equivalents being arranged, applied, and operated substantially in the manner and for the purpose set forth and described."

No. 24,777. SAML. B. GUERNSEY, of Waterbury, Conn., assignor to Willoughby H. Reed and Geo. W. Zeigler, of New York, N.Y., for an "Improvement in clasps for skirt hoops."

"I claim connecting the hoops with the straps, or equivalents thereof, for connecting and suspending them by means of plates bent to embrace the hoops, and formed with two slots or apertures, through which the straps or equivalents pass, thus clasping the straps or equivalents to the hoops, substantially as described. And I also claim the employment of the metal clasps, constructed as above described, in combination with and as a means of connecting the ends of the hoops, substantially as described."

No. 24,778. MOSES HALL, jr., of Osborn, Ohio, assignor to himself and Saml. H. Judy, of Osborn aforesaid, for an "Improvement in cattle gates for railroads."

"I claim constructing a cable guard or gate, with its cross bar or shaft below the rail of the railroad track, and operated by springs, substantially as described."

No. 24,779. ROBT. LAW, of Lockport, N.Y., assignor to himself and P. T. Dix, of Olcott, N.Y., for an "Improvement in apparatus for packing fruit."

"I claim the V-shaped or wedge-acting yoke *c*, provided with fulcrum pins *h*, *h*, and the hooked recesses *g*, *g*, in the upper ends of the bent clamping levers A, A, arranged and acting in combination with the screw D, fulcrum link B and claws *f*, *f*, or their equivalents, substantially in the manner and for the purpose herein specified."

No. 24,780. SIDNEY PARKER, of New York, N.Y., assignor to himself and Hugh Herringshaw, of same place, for an "Improvement in sewing machines."

"What I claim, is the combination of the hook I, and the feeding arc H, in the manner and for the purpose substantially as set forth. I claim also, the method of adjusting the feed by means of the combination of the spring piece G, and the feeding arc H, in the manner described."

No. 24,781. JOHN PAYNTER, of Shelbyville, Ind., assignor to himself and John McCorkle, of Shelbyville, aforesaid, for an "Improvement in sugar mills."

"What I claim is, the combination and arrangement of the journal (C), wheel (D), gearing (E, F, G, and H), and rollers (I, J, and K), the whole being suspended in a frame (A), and constructed and operated, substantially as described."

No. 24,782. ASA T. RING, of Newton, Mass., assignor to Nathl. T. Spear and A. J. Robinson, of Boston, and Milton, Mass., respectively, for an "Improved device for winding skeins of thread."

"What I claim is, the combination of the clamping spring *c*, screw and guide pin or rod *t*, *l*, with the tightening and supporting shank *e*, and bobbin *b*, when said parts are constructed and arranged, in relation to each other, substantially as and for the purpose specified and shown."

RE-ISSUES.

No. 754. JOHN M. BRUNSWICK, of Cincinnati, O., for an "Improved billiard table cushion."—Patented 8th December, 1857.—Re-issued 12th July, 1859.

"I claim that order in the arrangement of the material composing a billiard table cushion, which places the cork in the rear, the rubber in front of it, and the paper, leather, and cloth, or the equivalents thereof outside in the manner and for the purposes set forth."

No. 755. LYSANDER BUTLER and R. BLAKE, of Waterford, N. Y., for an "Improvement in fire-engines." —Patented 30th November, 1858.—Re-issued 12th July, 1859.

"We claim combining with the waterway or channel *i* the air-chamber *d*, divided into two compartments by the contraction *r* at or about one half of the light of said air chamber above the base or point of attachment to said waterway, substantially in the manner and for the purpose herein set forth. We claim, in combination with the hour-glass contraction of the air chamber, the ring enlargement S of the rock shaft, as herein set forth."

No. 756. AUSTIN G. DAY, of Seymour, Conn., for an "Improvement in cleansing caoutchouc."—Re-issued 12th July, 1859.

"I claim the use of alkali, or its equivalent, for separating bark, sticks, or other foreign bodies from crude caoutchouc and other vulcanizable gums to prepare them for manufacturing."

No. 757. AUSTIN G. DAY, of Seymour, Conn., for an "Improvement in treatment of crude caoutchouc."—Re-issued 12th July, 1859.

"I claim charging the caoutchouc or other like gum with alkaline liquor, or the equivalent, by means of the exhausting apparatus herein described and represented."

GEORGE H. CORLISS, of Providence, R. I., for an "Improvement in cut-off and working valves of steam engines."—Patented 10th March, 1849.—Re-issued 12th July, 1859.

"I claim the method, substantially as described, of operating the slide valves of steam engines by connecting the valves that open and close the ports at opposite ends of the cylinder, with separate crank wrists, or their mechanical equivalents, so that from the motion thereof each valve, while its port is closed, shall move a less distance than it moves in opening and closing its port, while at the same time the two wrists by which the two valves are operated have the same range of motion, as described, whereby I am enabled to save much of the power heretofore expended in working the slide valves of steam engines, and by which also I am enabled to make a greater proportion of the movement of the valve available for effecting a free passage of the steam through the ports of the cylinder."

GEORGE H. CORLISS, of Providence, R. I., for an "Improvement in cut-off and working valves of steam engines."—Patented 10th March, 1849.—Re-issued 12th July, 1859.

"I claim the combination of liberating valve-gear with valves which are moved parallel to their seats and continue their closing motion after their ports are closed, and commence their opening motion before their ports open, substantially as described."

GEORGE H. CORLISS, of Providence, R. I., for an "Improvement in cut-off and working valves of steam engines."—Patented 10th March, 1849.—Re-issued 12th July, 1859.

"I claim the combination, substantially as described, of an air cushion, with the liberating valve gear of steam engines."

GEORGE H. CORLISS, of Providence, R. I., for an "Improvement in cut-off and working valves of steam engines."—Patented 10th March, 1849.—Re-issued 12th July, 1859.

"I claim the combination with the part of the valve gear that appertains to a liberated steam valve of an instrument moved by the power of the engine in such manner as to effect the closing of the liberated valve, whenever the independent means provided for that purpose fail to act in time."

GEORGE H. CORLISS, of Providence, R. I., for an "Improvement in cut-off and working valves of steam-engines."—Patented 10th March, 1849.—Re-issued 12th July, 1859.

"I claim the combination of a helical cam, with the opening and closing mechanism of the steam valve, substantially as described."

GEORGE H. CORLISS, of Providence, R. I., for an "Improvement in cut-off and working valves of steam-engines."—Patented 10th March, 1849.—Re-issued 12th July, 1859.

"I claim the method, substantially as described, of regulating the velocity of steam engines by combining a regulator with a liberating valve gear."

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11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By SAMUEL SUTTON, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated 16th March*, 1744.) Price 1*s.*

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FIRE-ARMS, PROJECTILES, &c.—The series of Specifications and Drawings on this Subject, from 15th May, 1718, to 31st December, 1853, with Alphabetical and Subject-matter Indexes, may be obtained at the cost price of 9*l.* 18*s.* 6½*d.*

The Indexes, separately, price 3*s.*

In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

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The classes already published are,—

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The following are in the press:—

PAPER.—PART II. CUTTING, FOLDING, AND ORNAMENTING; INCLUDING ENVELOPES, CARDS, PAPER-HANGINGS, &c.

ELECTRICITY AND MAGNETISM: THEIR GENERATION AND APPLICATIONS.

PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.

MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.

PRODUCTION AND APPLICATIONS OF GAS.

STEAM ENGINES.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 582. TUESDAY, AUGUST 2, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

684. WILLIAM BOWERS TAYLOR, of Ballymena, in the county of Antrim, in Ireland, Gentleman, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Certain improvements in or applicable to looms for weaving."

As set forth in his petition, recorded in the said office on the 18th day of March, 1859.

714. And JOSEPH BICKERTON, of Oldham, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in opening and securing window sashes."

As set forth in his petition, recorded in the said office on the 21st day of March, 1859.

726. And SAMUEL NEWINGTON, of Ridgway Ticehurst, in the county of Sussex, M.D., has given the like notice in respect of the invention of "Improvements in apparatus for distributing seeds and manure."

728. And WILLIAM PICKFORD WILKINS, of Ipswich, in the county of Suffolk, Engineer, has given the like notice in respect of the invention of "Improvements in the arrangements of valves, and in their application to steam engines."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of March, 1859.

735. And SAMUEL ORAM, of No. 137, Fleet Street, in the city of London, has given the like notice in respect of the invention of "Improvements in pipes or tubes for generating and superheating steam."

736. And WILLIAM ADAMSON, of the Patent Slip Wellington Quay, Newcastle-on-Tyne, has given the like notice in respect of the invention of "Improvements in apparatus for propelling vessels."

738. And WILLIAM MIDDLESHIP, of Grove Terrace, South Grove, Mile End, in the county of Middlesex, Officer of Her Majesty's Customs, has given the like notice in respect of the invention of "Improvements in propelling vessels."

746. And FREDERIC TILLETT, of Banner Street, in the parish of St. Lukes, in the county of Middlesex, Splint Cutter, has given the like notice in respect of the invention of "Improvements in machinery for cutting splints for matches."

As set forth in their respective petitions, all recorded in the said office on the 23rd day of March, 1859.

748. And WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, in the county of Warwick, Gold Pen and Pencil Case Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of boxes or cases used for holding needles, pens, matches, pencils, and for other like purposes."

750. And FREDERICK EDWARD SHARP, of 3, Gloucester Terrace, Blackheath, in the county of Kent, has given the like notice in respect of the invention of "Improvements in machinery for corking bottles."

As set forth in their respective petitions, both recorded in the said office on the 24th day of March, 1859.

762. And WILLIAM REDGRAVE, of Tavistock Street, in the county of Middlesex, Tailor, has given the like notice in respect of the invention of "An improved pillow travelling cap."

763. And ELIZABETH STEANE, of Manor Rise, Brixton, in the county of Surrey, Widow, has given the like notice in respect of the invention of "An improved means or apparatus for preventing candles dropping or guttering."

As set forth in their respective petitions, both recorded in the said office on the 26th day of March, 1859.

772. And CHARLES JAMES RICHARDSON, of No. 34, Kensington Square, and of No. 9A, King Street, Whitehall, both in the county of Middle-

sex, Architect, has given the like notice in respect of the invention of "Improvements in apparatus to be applied to chimnies or flues of buildings for preventing downdraught or return smoke, for their insuring upward ventilation, and for reducing the quantity of smoke or the blacks from the smoke passing into the atmosphere."

774. And James Buckingham, of Westmorland House, Walworth Common, in the county of Surrey, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus employed in drawing fibrous substances."

As set forth in their respective petitions, both recorded in the said office on the 28th day of March, 1859.

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785. And Richard Searle, of Woodford Wells, in the county of Essex, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus used for transmitting signals by electricity for telegraphic purposes, and in the construction of telegraphic cables."

786. And Isaac Spight, of Glanford Briggs, in the county of Lincoln, Ironfounder and Agricultural Machine Maker, have given the like notice in respect of the invention of "Improvements in horse hoes."

787. And Thomas Taylor, of Vere Street, in the county of Middlesex, Chemist, has given the like notice in respect of the invention of "Improved means of giving increased strength to paper."

788. And Henry Potter Burt, of Charlotte Row, Mansion House, in the city of London, has given the like notice in respect of the invention of "Improvements in apparatus for preparing and preserving timber."

As set forth in their respective petitions, all recorded in the said office on the 29th day of March, 1859.

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795. And Thomas Downs Shipman, of Toronto, Canada West, North America, has given the like notice in respect of the invention of "Improvements in apparatus for stamping and printing."—Partly a communication when abroad from Mr. Kendell, of Canada aforesaid.

798. And Cowper Phipps Coles, of Southsea, in the county of Hants, Captain R.N., has given the like notice in respect of the invention of "An apparatus for defending guns and gunners in ships of war, gun boats, and land batteries."

As set forth in their respective petitions, both recorded in the said office on the 30th day of March, 1859.

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805. And Thomas Ivory, of Edinburgh, Advocate, has given the like notice in respect of the invention of "Improvements in rotary engines."

806. And Thomas Ivory, of Edinburgh, Advocate, has given the like notice in respect of the invention of "Improvements in steam boilers and furnaces for the same."

807. And Alexander Morton, of Morton Place, Kilmarnock, has given the like notice in respect of the invention of "Improvements in sextants or quadrants for nautical purposes, and which are also adapted to the measuring of altitudes or angular distances."

As set forth in their respective petitions, all recorded in the said office on the 31st day of March, 1859.

813. And Daniel Kinnear Clark, of 11, Adam Street, Adelphi, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Feed water heating apparatus."

814. And Frederic Philippe Auguste Aubertin, of Paris, in the empire of France, at present residing at No. 32, Gerard Street, Islington, in the county of Middlesex, has given the like notice in respect of the invention of "An improved preparation of food for herbivorous animals."

As set forth in their respective petitions, both recorded in the said office on the 1st day of April, 1859.

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824. And Abraham Ripley, of 21, Bridge Street Blackfriars, London, county of Middlesex, Engineer, and John Roberts, of Nelson Square, Bermondsey, county of Surrey, Engineer, have given the like notice in respect of the invention of "Improvements in machinery for striking or scraping leather, and tanned or untanned hides."

As set forth in their petition, recorded in the said office on the 2nd day of April, 1859.

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861. And Jean Auguste Hilarion Ballande, of Paris, in the empire of France, Gentleman, has given the like notice in respect of the invention of "An improvement in the preparation of writing paper, and ink to be used thereon."

As set forth in his petition, recorded in the said office on the 6th day of April, 1859.

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883. And William Henderson, of Alderley Edge, in the county of Chester, Chemist, has given the like notice in respect of the invention of "Improvements in treating certain ores, and in obtaining products therefrom."

As set forth in his petition, recorded in the said office on the 8th day of April, 1859.

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942. And William Sinnock, of Brompton, in the county of Kent, Ropery Engineer, has given the like notice in respect of the invention of "Improvements in submarine and subterranean electric telegraph cables, and in machinery for the manufacture thereof."

As set forth in his petition, recorded in the said office on the 14th day of April, 1859.

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956. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in apparatus for separating metals from their ores, and other matters."—A communication from abroad by Henri François Toussaint, Chemist, and Louis Napoleon Langlois, Civil Engineer, both of Paris.

As set forth in his petition, recorded in the said office on the 16th day of April, 1859.

1099. And William Gossage, of Widnes, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture and useful application of certain alkaline silicates, and in the production of liquor silicis or liquid flint."

1101. And William Gossage, of Widnes, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improve-

ments in the manufacture of caustic soda and carbonate of soda from certain alkaline liquors and salts."

As set forth in his respective petitions, both recorded in the said office on the 2nd day of May, 1859.

1329. And WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of iron and steel."

As set forth in his petition, recorded in the said office on the 30th day of May, 1859.

1512. And GEORGE CHARLES GRIMES, of Wandsworth, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in cigar or such like lights, and in the means of producing them."

As set forth in his petition, recorded in the said office on the 23rd day of June, 1859.

1527. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Apparatus for exhibiting stereoscopic pictures." — A communication from abroad by J. Stuart Perry, of Newport, in the state of New York, United States of America.

As set forth in his petition, recorded in the said office on the 25th day of June, 1859.

1592. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improvement in the process of an improved apparatus for separating metals from their ores."—A communication from abroad by Lewis Solomon, of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 4th day of July, 1859.

1597. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improved apparatus for moving iron or other metals while the same is in process of manufacture at the rolls."—A communication from abroad by Charles Hewitt, of the city of Trenton, in the state of New Jersey, one of the United States of America.

As set forth in his petition, recorded in the said office on the 5th day of July, 1859.

1640. And WILLIAM MACKEAN, of Paisley, in the county of Renfrew, Scotland, Starch Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture or treatment of farinaceous matters for the obtainment of starch and food."

As set forth in his petition, recorded in the said office on the 9th day of July, 1859.

1647. And WILLIAM EDWARD NEWTON, of the Office of Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in magneto-electric machines." — A communication from abroad, by George W. Beardslee, of Flushing, state of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 11th day of July, 1859.

1687. And WILLIAM MORRIS SMITH, of Northampton, Gentleman, has given the like notice in respect of the invention of "The construction of fare-boxes for the prevention of fraud on the part of drivers, conductors, &c."— A communication from abroad by J. B. Slawson, of New Orleans, in the state of Louisiana, in the United States of America.

As set forth in his petition, recorded in the said office on the 16th day of July, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

2nd August, 1859.

309. WILLIAM CLAYTON and JACOB GOODFELLOW, both of Blackburn, in the county of Lancaster, Engineers, for an invention of "Certain improvements in metallic pistons."—Dated 3rd February, 1859.

311. JOHN PETRIE, junior, of Rochdale, in the county of Lancaster, Machinist, and THOMAS WRIGLEY, of Heap Bridge, in the said county, Paper Manufacturer, for an invention of "Improvements in machinery or apparatus for washing rags and other materials for the manufacture of paper."—Dated 3rd February, 1859.

317. ALEXANDER ALLAN, of Perth, in the county of Perth, North Britain, Engineer, for an invention of "Improvements in locomotive steam engines, in part applicable for retarding and stopping railway trains."—Dated 4th February, 1859.

320. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Editor of the Mechanics' Magazine and Patent Agent, for an invention of "An improvement in cooling worts and beer."—A communication from Madame Jolibois, residing at Dijon, France.—Dated 4th February, 1859.

322. GEORGE HENRY BAYLIS, of 13, Vauxhall Walk, Lambeth, in the county of Surrey, and FRANCIS ROBINSON, of 88, Salisbury Street, Lisson Grove, in the county of Middlesex, for an invention of "An improved indicator for registering the withdrawal of liquids from vessels."—Dated 4th February, 1859.

323. FREDERICK HERBERT MABERLY, of Stowmarket, in the county of Suffolk, Master of Arts, for an invention of "Improvements in obtaining spring power, and in its application to various purposes."—Dated 4th February, 1859.

332. Nathaniel Greenhalgh, of Bolton, in the county of Lancaster, Cotton Spinner, and William Shaw, of the same place, Cotton Spinner, and James Mallison junior, of the same place, Yarn Agent, for an invention of "Certain improvements in the treatment and preparation of yarns or threads previously to dyeing."—Dated 5th February, 1859.

335. Thomas Sykes, of Cleckheaton, in the county of York, Manufacturing Chemist, and Benjamin Clifford Sykes, of the same place, M.D., for an invention of "Improvements in obtaining or separating oily, fatty, greasy, tarry, waxy, and resinous substances from oleaginous seeds, nuts, and fruits, wool, silk, hair, cotton, flax, line, hemp, furs, skins, leather, bones, fish, and other animal matters and refuse, woollen and cotton waste and refuse, also textile fabrics and refuse grease produced in various branches of industry, indigo, lac, lac dye, and other dyes."—Dated 5th February, 1859.

347. John Wilson, of 55, John Street, Sunderland, for an invention of "Improvements in venlating mines, and in combining apparatus used for such purpose."—Dated 7th February, 1859.

393. Gaylard Hadwen, of Audenshaw, in the county of Lancaster, and John Wadsworth, of Droylsden, in the said county, for an invention of "Improvements in jacquard apparatus applicable to power looms."—Dated 12th February, 1859.

398. Samuel Hazard Huntly, of Upper Baker Street, in the county of Middlesex, for an invention of "Improvements in cooking apparatus."—Dated 12th February, 1859.

418. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in the manufacture of steel, iron, and cast steel."—Dated 15th February, 1859.

443. Henry Young Darracott Scott, of Brompton Barracks, Chatham, in the county of Kent, Captain in the Royal Engineers, for an invention of "An improvement in the manufacture of cement."—Dated 17th February, 1859.

445. Pierre Edouard Fraissinet, of Paris, in the empire of France, Civil Engineer, for an invention of "A new or improved structure of iron applicable for paving, flooring, bridges, gratings, girders, and other like purposes."—Dated 17th February, 1859.

449. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in apparatus for propelling and steering vessels and other floating craft."—A communication from John Eaton, residing at Belleville, in the province of Upper Canada, Engineer.—Dated 17th February, 1859.

458. Pierre Antoine Joseph Dujardin, of the town of Lille, France, Physician, for an invention of "Improvements in the printing apparatus of railway telegraphs."—Dated 19th February, 1859.

596. Pierre Ernest Aimont, of Paris, in the French empire, Civil Engineer, for an invention of "Improvements in the construction of waggons and other carriages for railways and ordinary roads, and of apparatuses connected therewith."—Dated 7th March, 1859.

1143. William Skakspere Booth, of Birmingham, in the county of Warwick, Undertaker, for an invention of "A new or improved washing machine."—Dated 6th May, 1859.

1431. William Brown the younger, of the town and county of Selkirk, North Britain, Manufacturer, and Simeon Bathgate, of the same place, Engineer, for an invention of "Improvements in machinery or apparatus for carding and treating or preparing fibrous materials."—Dated 14th June, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 30th July, 1859, inclusive.*)

28th July.

1809. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "A new musical instrument to be played by the agency of steam or highly compressed air."—A communication.—Dated 31st July, 1856.

2060. William Moberly, of Ravenhead, near St. Helen's, in the county of Lancaster, Gentleman, for an invention of "Improvements in the grinding and polishing of curved and rounded surfaces."—A communication.—Dated 4th September, 1856.

30th July.

1823. Eugène Perré Chevalier, of Brussels, in the kingdom of Belgium, at present residing in Paris, Gentleman, for an invention of "Improvements in the manufacture of cigars."—Dated 1st August, 1856.

2121. John Blythe Robinson, of Beverley, in the county of York, Gentleman, for an invention of "Improvements in machinery for effecting agricultural operations.—A communication.—Dated 11th September, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

List of Specifications published during th week ending 30th July, 1859.

No.	Price.	Subject-Matter.
		(*Disclaimer*, &c., 1856.)
2129*	3*d.*	Sewing machines.
		1859.
2935	3*d.*	Manufacture of steel.
2937	8*d.*	Applying electricity to motive power and telegraphic purposes.
2939	1*s.* 5*d.*	Raising, lowering, and moving heavy weights.
2940	3*d.*	Filtration of sugar, &c.
2942	6*d.*	Dyeing wool and other fibres.
2945	3*d.*	Preparing and finishing textile fabrics.
2950	6*d.*	Permanent way of railways.
2952	10*d.*	Employment of gas for generating steam, &c.
2953	3*d.*	Composition for the protection of metallic surfaces.
2954	10*d.*	Cooking apparatus.
2955	1*s.*	Stoves, fireplaces, steam boilers, and other furnaces.
2956	5*d.*	Metallic pistons.
2957	9*d.*	Substitute for ratchet and other taking-up motions.
2958	10*d.*	Distilling fatty bodies.
2959	4*d.*	Solidifying waste horn, &c.
2960	1*s.*	Self-gas generating lamp.
2961	8*d.*	Box or case for preserving photographic paper.
2962	1*s.* 5*d.*	Steam engines, boilers, and furnaces.
2963	6*d.*	Axles for carriages.
2964	3*s.* 10*d.*	Steam ploughs,
2965	7*d.*	Boots and shoes.
2966	7*d.*	Pistons.
2967	3*d.*	Glass bottles.
2968	3*d.*	Travelling bags.
2969	4*d.*	Drying textile fabrics and materials.
2970	3*d.*	Railway carriages and brakes.
2971	11*d.*	Manufacture of boots and shoes.
2972	6*d.*	Top clearers of machines for spinning.
2973	3*d.*	Advertizing by day or night.
2974	3*d.*	Sewing machines.
2975	8*d.*	Apparatus for indicating the pressure of steam in boilers, regulating the temperature of building ships, &c.
2976	3*d.*	Fixing colouring matters on woven or felted fabrics.
2977	4*d.*	Manure.
2978	6*d.*	Manufacture of india rubber goods.
2979	3*d.*	Apparatus for stretching fabrics.
2980	10*d.*	Machinery for reaping and mowing.
2981	3*d.*	Roughing the shoes of horses, &c.
2982	3*d.*	Anchors.
2983	3*d.*	Treatment of hydro-carbons.
2984	1*s.* 7*d.*	Apparatus for obtaining and applying electricity.
2985	*d.*	Breakwaters.
2986	3*d.*	Railway chairs, rails, &c.
2987	3*d.*	Purification of gas.
2988	3*d.*	Stoppering or closing bottles, jars, &c.
2989	10*d.*	Washing and drying machinery.
2990	6*d.*	Revolving fire arms.
2993	3*d.*	Pipes for smoking.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset. Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent, No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March*, 1744.) Price 1*s.*

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. Curtis for a Patent. Price 1*s.*

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No. 583. FRIDAY, AUGUST 5, 1859. Price 2d.

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1538. To GEORGE DAWES, of Milton Iron Works, in the parish of Hoyland, in the county of York, Ironmaster, and CHARLES JOHN CARR, of Hoyland aforesaid, Engineer, for the invention of "Certain improvements in atmospheric and vacuum hammers and stamps, part of which improvements is also applicable to steam and other engines."

On their petition, recorded in the Office of the Commissioners on the 28th day of June, 1859.

1560. To JOHN LAWSON, of Leeds, in the county of York, Engineer, and STEPHEN COTTON, of Leeds aforesaid, Draftsman, for the invention of "Certain improvements in machinery for roving, twisting, and spinning flax, cotton, wool, and other fibrous substances."

On their petition, recorded in the Office of the Com-Commissioners on the 30th day of June, 1859.

1602. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "An improved mode of manufacture of wheel tires for railway carriages and engines, by means of the therein described apparatus." — A communication from abroad, by Duplay Vidal, Lachaise, and Co., No. 10, Rue Mogador, Paris, in the empire of France.

On his petition, recorded in the Office of the Commissioners on the 6th day of July, 1859.

1623. To JOSEPH GIBBS, of Brentford, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the manufacture of brushes, brooms, coverings for floors, mats scrapers, and other scraping and rubbing surfaces."

On his petition, recorded in the Office of the Commissioners on the 8th day of July, 1859.

1652. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "Improvements in railway car seats and arm chairs."—A communication from abroad, by Bernard Joachim la Mothe, No. 10, Rue Mogador, Paris, in the empire of France.

1653. And to CAMILLE JOSEPH PROAL, of No. 4, South Street, Finsbury, London, Gentleman, for the invention of "The application of photographic impressions or pictures upon fabrics or tissues, for rendering such fabrics or tissues applicable to various useful purposes." — A communication from abroad, by Jules Bernard, of Paris, France.

On both their petitions, recorded in the Office of the Commissioners on the 12th day of July, 1859.

1698. To JOZÉ LUIS, at the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A new system of eccentric socket adapted to axletrees."—A communication from abroad, by Jean Baptiste Gangand, No. 10, Rue Mogador, Paris, in the empire of France.

1702. And to JOHN CHARLEY RIDDEL, of Belfast, in the county of Antrim, Ireland, for the invention of "Improvements in stalls, loose boxes, and enclosures for horses, cows, pigs, or other animals."

On both their petitions, recorded in the Office of the Commissioners on the 19th day of July, 1859.

1704. To THOMAS CURTIS, and JONATHAN HAIGH, both of Leeds, in the county of York, Cloth

Finishers, for the invention of "Improvements in the finishing of cloths."

On their petition, recorded in the Office of the Commissioners on the 20th day of July, 1859.

1711. To JAMES TODD, the younger, of Castlemains, in the county of Haddington, North Britain, Farmer, for the invention of "Improvements in machinery or apparatus for dressing or cleansing and separating grains and seeds."

1712. To GEORGE WELCH, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "An improvement or improvements in the manufacture of frames for mirrors, pictures, and other articles."

1713. To ISAAC ROBSON, of Dalton, near Huddersfield, in the county of York, Dyer, for the invention of "Improvements in means or apparatus for drying and cuttling cotton warps after being dyed or sized, or after any other process of wetting, and when quick drying is required."

1715. To MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "Improvements in apparatus or machinery for the manufacture of corks and bungs."—A communication from abroad by Paul Alexis Adolphe Dalverny, of 33, Boulevard Saint Martin, Paris, France, Merchant.

1716. To EDWARD JOHN SCOTT and SAMUEL FREDERICK SCOTT, of Glasgow, in the county of Lanark, North Britain, Manufacturers of Boots and Shoes, for the invention of "Improvements in the manufacture of boots and shoes."

1717. And to HENRY HEALEY, of Ashby Decoy Cottage, near Brigg, in the county of Lincoln, for the invention of "Improvements in machinery for destroying flies and other insects on growing crops."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of July, 1859.

1718. To JOSEPH HARTLEY, of Romiley, near Stockport, in the county of Chester, Manager, for the invention of "Improvements in machinery for regulating the velocity of steam and other engines."

1719. To JOSEPH G. ISHAM and STEPHEN D. ALBERTSON, of the city and state of New York, United States of America, for the invention of "An improved machine for cutting and shaping bottle and other corks."—A communication from Albert Albertson, a person residing abroad."

1720. To SAMUEL ALEXANDER BELL and JOHN BLACK, of Bow Lane, Cheapside, in the city of London, Vesta Light and Fusee Manufacturers, for the invention of "An improved manufacture of fusee."

1721. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in sewing machines."—A communication from abroad by George Kugler, Boniface Plaz, and Jacob Rexroth, all of Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of July, 1859.

1722. To JOHN BATKIN WHITEHALL, of the town and county of the town of Nottingham, Engineer, and SAMUEL WHEATCROFT, of the New North Road, county of Middlesex, Engineer, for the invention of "Improvements in the construction of certain parts of the apparatus or machinery made use of for manufacturing bonnet and cap fronts, rouches, and such like articles of millinery."

1723. To HORATIO NELSON HARROP, junr., of Manchester, in the county of Lancaster, Cigar Dealer, for the invention of "Certain improvements in a cigar lighter and fusee box.'

1724. To JAMES BROADLEY, of Saltaire, in the county of York, Overlooker to Messrs. Titus, Salt, Sons, and Co., of the same place, Spinners and Manufacturers, for the invention of "Improvements in means or apparatus used in weaving."

1725. To JOHN TENWICK, of Clarendon Street, (Albion Foundry,) Portsmouth, Hampshire, for the invention of "Improved steering apparatus for ships."

1726. And to WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, for the invention of "Improvements in capstans, riding bits, and stoppers for working with chains."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of July, 1859.

1727. To HENRY AMBLER, of Halifax, in the county of York, Engineer, for the invention of "Improvements in explosive projectiles."

1728. To JOHN ROWLAND, junior, of Oldham, in the county of Lancaster, Manufacturer, and GEORGE HALL, of the same place, Engineer, for the invention of "Improvements in machinery or apparatus for sizing yarns or threads, which said improvements are also applicable to dressing machines, or other similar apparatus."

1729. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improvements in dyeing yarns, threads, or woven fabrics of wool, silk, cotton, linen, or other fibrous or filamentous material."—A communication from abroad by François Xavier Hurstel, of Paris, Wool Comber.

1730. To EDMUND HUNT, of Glasgow, in the county of Lanark, North Britain, Consulting Engineer and Patent Agent, for the invention of "Improvements in apparatus for indicating and regulating speed."

1731. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in extracting oil from coal and other substances yielding pyrogenous oils."—A communication from abroad by Franklin W. Willard, of New York, in the United States of America.

1732. And to CHARLES FRÉDERIC VASSEROT, of No.45, Essex Street, Strand, London, Patent Agent, for the invention of "Preventing and removing incrustations in steam boilers."—A communication from Jean Claude Chavanne, residing at Lyons, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 25th day of July, 1859.

1733. To JAMES KING, of Glasgow, in the county of Lanark, North Britain, Chemist, for the invention of "Improvements in the treatment of materials used in or resulting from the distillation of spirits."

1735. And to JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in slide valves for steam engines"—A communication from abroad, by Richard C. Bristol, of Chicago, United States of America.

On both their petitions, recorded in the Office of the Commissioners on the 26th day of July, 1859.

1741. To EDWARD WINSTANLEY, Cotton Spinner, Ashton-under-Lyne, for the invention of "Improvements in indicators for registering the quantity produced by spinning machinery."

1743. To THOMAS DICKINS, of Middleton, in the county of Lancaster, Gentleman, for the invention of "Improvements in dyeing and discharging warps or other yarns or threads, and woven fabrics of silk, wool, cotton, and other fibrous materials."

1745. And to CHARLES LOUIS BLUM, of No. 29, Boulevart St. Martin, Paris, Merchant, for the invention of "A mechanical apparatus for smoking and colouring pipes."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of July, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

5th August, 1859.

154. JOHN FAWCETT, of Kingston-upon-Hull, in the county of same town, Merchant, for an invention of "An improved preparation of food for cattle and horses."—Dated 18th January, 1859.

218. JOHN GUY PROGER, of 13, Trinity Street, Cardiff, and DAVID DAVIES, of Stuart Street, Bute Docks, Cardiff, in the county of Glamorgan, for an invention of "Improvements in lanterns used on board ship to signal to the steersman."—Dated 24th January, 1859.

338. GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, for an invention of "Improvements in the treatment of charcoal after its manufacture or revivification."—Dated 7th February, 1859.

346. JOHN SMITH, of Bradford, in the county of York, Machine Maker, for an invention of "Improvements in machinery or apparatus for preparing and combing wool and other fibrous substances."—Dated 7th February, 1859.

350. JAMES HOSKING, Oil Merchant, of Walworth Common, in the county of Surrey, for an invention of "Improvements in the manufacture of lamps."—Dated 8th February, 1859.

356. JOHN BALDRY REDMAN, of New Palace Yard, in the city of Westminster, Civil Engineer, for an invention of "An improvement in the construction of carriage ways."—Dated 8th February, 1859.

361. EDWARD WILKINS, of No. 7, Addington Place, Camberwell Road, in the county of Surry, Gentleman, for an invention of "Improvements in flower vases."—Dated 9th February, 1859.

362. JOHN STEPHEN JOSEPH, of Rhostyllan, near Wrexham, in the county of Denbigh, North Wales, for an invention of "Improvements in coke ovens and in cooling and extinguishing coke."—Dated 9th February, 1859.

368. GEORGE BOWER, of Saint Neots, in the county of Huntingdon, Gas Engineer, for an invention of "Improvements in apparatus for the manufacture of illuminating gas."—Dated 9th February, 1859.

369. JAMES EDWARD MCCONNELL, of Wolverton, in the county of Bucks, Civil Engineer, for an invention of "Improvements in steam boilers and in the generation and treatment of steam."—Dated 9th February, 1859.

371. EDWARD HERRING, of the Heath, Weybridge, in the county of Surrey, for an invention of "Improvements in the mashing and fermenting of grain for the production of alcohol."—Dated 9th February, 1859.

376. WILLIAM ADOLPHE COVERT, of Long Island, New York, in the United States of America, for an invention of "An improved self-acting railway switch."—A communication from Charles L. Spencer, residing at Rhode Island, U.S.A.—Dated 10th February, 1859.

377. ROBERT JOSEPH ELLIS, of Liverpool, in the county of Lancaster, Merchant, for an invention of "Improvements in the apparatus for lifting sunken vessels and other submerged bodies."—Dated 10th February, 1859.

429. RICHARD JENNINGS STEVENSON PEARCE, of Fleet Street, in the city of London, Machinist, for an invention of "Improvements in weighing dynamic machines."—Dated 16th February, 1859.

456. WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in pressure guages."—A communication from abroad by Louis Droissart, Mechanician, of Paris."—Dated 18th February, 1859.

468. GEORGE PAUL, of Glasgow, in the county of Lanark, North Britain, Mechanic, for an invention of "Improvements in spindles and flyers."—Dated 21st February, 1859.

505. JEAN HENRI GUILLAUME DANIEL WAGNER, of Paris, in the empire of France, Manufacturer, for an invention of "Apparatus for cleaning water, and removing all matters in suspension and dissolution contained in it, water intended to feed generators of all sorts (applicable also to other purposes), which besides, previous to its getting into the generators, is heated to the highest degree without almost any expense."—Dated 24th February, 1859.

512. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the county of Middlesex, for an invention of "Improvements in electric telegraphs and

apparatus, and in supports for electric telegraphic line wires."—Partly a communication from Werner Siëmens, residing at Berlin, in Prussia, and is partly his own invention.—Dated 25th February, 1859.

525. Alexander Martin, Merchant, and Alexander Crichton, Mechanic, both residing in Pollokshaws, in the county of Renfrew, for an invention of "Improvements in weaving and woven goods."—Dated 28th February, 1859.

618. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in billiard tables."—A communication from abroad by Abraham Bassford, of New York."—Dated 9th March, 1859.

680. Alexander Mein, Glass Bottle Maker, at Saint Rollox, Glasgow, in the county of Lanark, for an invention of "Improvements in making glass bottles, and in the apparatus connected therewith."—Dated 17th March, 1859.

744. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for the manufacture of sheet tin."—A communication from abroad by Monsieur Masson, of Paris, in the empire of France.—Dated 23rd March, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 3rd August*, 1859, *inclusive.*)

1st August.

1854. John Yuil Borland, of Manchester, in the county of Lancaster, Machinist, for an invention of "Improvements in machinery for preparing and spinning fibrous materials."—Dated 6th August, 1856.

3rd August.

1840. Henry Walker Wood, of Briton Ferry, Glamorganshire, Gentleman, for an invention of "Further improvements in the manufacture of fuel, and for a new mode of preserving coal and coke and other fuel."—Dated 5th August, 1856.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.

AUSTRIA.*

List of Patents which were Delivered, Prolonged, or became Void during the Month of May, 1859.†

(*Communicated by the Austrian Government.*)

1. Patents Delivered.

1. Albrecht Bernhard Heller and Otto Graf, both of Dresden, represented by Edward Schmidt, Vienna, for "A grinding and polishing substance from the slags of silver smelting works." —2 years.—(Secret.)—Dated 3rd May, 1859.

2. Anthony Richelmi, of Genoa, Engineer, represented by Nicholas Polleri, Agent, Milan, for "A kneading machine with internal pressure roller."—1 year.—(Public.)—Dated 3rd May, 1859.

3. Frederic Paget, of Vienna, for "An improved method of preserving the shape of weft yarn bobbins by means of glutinous substances."—3 years. —(Public.)—Dated 3rd May, 1859.

4. John Moser, of Vienna, for "An apparatus for cooking eatables without fire or fuel called 'Military camp kitchen.'"—1 year.—(Secret.)—Dated 3rd May, 1859.

5. Emilius Seybel, of Vienna, for "A peculiar regenerative lime kiln heated by gas."—1 year. —(Secret.)—Dated 7th May, 1859.

6. Alois Nidomansky, of Vienna, for "A liquid shoe blacking."—1 year.—(Secret.)—Dated 7th May, 1859.

7. Anthony Kraiziger, of Vienna, for "An elastic stuffing for beds, sofas, &c., arranged for folding together and admitting the circulation of air."—1 year.—(Secret.)—Dated 7th May, 1859.

8. John Szentsak, of Vienna, for "A double window to close hermetically."—1 year.—(Public.)—Dated 7th May, 1859.

9. Frederic Paget, of Vienna, for "An improved method of refining sugar."—2 years.—(Public.)—Dated 7th May, 1859.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

10. Louis Mich. Francis Doyère, of Meudon, in France, represented by A. Martin, Vienna, for "A new method of preserving grain, flour, vegetables, oil seed, and other dried seeds."—1 year.—(Public.)—Dated 7th May, 1859.

11. Joseph Pohlmann, of Vienna, for "A new powder for ladies to remove wrinkles and freckles."—5 years.—(Secret.)—Dated 9th May, 1859.

12. Anthony Jœgerndorfer, of Nussdorf, Vienna, for an invention for "Producing yeast from substances hitherto considered worthless."—1 year.—(Secret.)—Dated 9th May, 1859.

13. L. W. Broadwell, of New Orleans, represented by E. C. Stilles, U. S. Consul at Vienna, for "A new mode for dressing millstones."—2 years.—(Secret.)—Dated 10th May, 1859.

14. James Schwarz, of Vienna, for "Improvements in chromo and mono lithography, by which the most delicate tints and a peculiar effect can be produced and infinitely multiplied from the same drawing."—1 year.—(Secret.)—Dated 13th May, 1859.

15. Henry Gerner, of New York, represented by John Kuffner, Vienna, for "A smoke-consuming apparatus oeconomising fuel."—1 year.—(Secret.)—Dated 14th May, 1859.

16. George Pfanzeder, of Munic, represented by John Spiering, Vienna, for "An improvement in weighing machines."—1 year.—(Public.)—Dated 14th May, 1859.

17. James Heszer, of Vienna, for "An invention for fastening buttons to coats by means of a spring instead of sewing."—1 year.—(Public.)—Dated 18th May, 1859.

18. Cornelius Kasper, of Vienna, for "An improvement in combing machines for fibrous substances."—1 year.—(Secret.)—Dated 18th May, 1859.

19. Augustus Devidé, of Deutsch Landsberg in Styria, for "Improved galvanised lucifer matches."—2 years.—(Secret.)—Dated 18th May, 1859.

20. Max. Lichtenfeld, of Pesth, for "An improvement in fastening glass panes into windows hermetically tight."—1 year.—(Secret.)—Dated 18th May, 1859.

21. Eustache Durst, of Vienna, for "A sowing machine to be used for any description of seed, and on both plans, broadcast or in rows."—1 year.—(Secret.)—18th May, 1859.

22. William Demel, of Vienna, for "Improvements for artificial nipples for feeding infants, by which the said nipples are connected with the glass without stopper."—3 years.—(Public.)—Dated 19th May, 1859.

23. Ignatius Martin Guggenberger, of Vienna, for "An improved ventilating apparatus without draughts for closed rooms and stables."—1 year. (Secret.)—Dated 20th May, 1859.

24. Charles Guardet, of Vienna, for "A self-regulating apparatus, applied to the draught of horses."—1 year.—(Public.)—Dated 20th May, 1859.

25. Alois John Metsger, of Vienna, for "A new kind of soap for linen, as well as the body called 'sapo ex voto.'"—1 year.—(Secret.)—Dated 21st May, 1859.

26. Julius Mahler, of Vienna, for "An invention for peeling the husk from grain, rice, and other such plants in a more complete and economical manner, and separating them from the husks."—5 years.—(Public.)—Dated 23rd May, 1859.

27. James Steinschneider, of Pesth, for "An improvement in stitching together quilting for beds by a peculiar mode of sewing."—1 year—(Secret.)—Dated 23rd May, 1859.

28. Moris Markovitz and Alexander Kaffeesieder, of Pesth, for "An improved glue used in book binding to render such books or similar articles more durable and pliable."—1 year. (Secret.)—Dated 24th May, 1859.

29. John Jordan, of Vienna, for "A method of rendering the granite pavement of streets, foot, paths, yards, and entrances, &c., more durable and of removing the dust."—1 year.—(Secret.)—Dated 24th May, 1859.

30. L. C. Siemens and E. Breunlin, both of Schlan, in Bohemia, for "A new refining substance in the manufacture of beetroot sugar, by which a smaller quantity of crystallised sugar is destroyed, therefore the product increased and the expense diminished"—2 years.—(Secret.)—Dated 24th May, 1859.

31. Francisca Weiss, of Prague, for "A new composition of essences to supersede the so-called 'Eau de Cologne,' and called 'Eau de Prague.'"—1 year.—(Secret.)—Dated 25th May, 1859.

32. Stephen Saschka, of Vienna, for "Improvements in washing machines."—1 year.—(Public.)—Dated 27th May, 1859.

33. John Cristopher Endris, of Vienna, for "Improvements in locks and keys."—2 years.—(Secret.)—Dated 27th May, 1859.

34. Leopold Jedlitschka, of Znaim, for "A new construction of earthenware stoves."—1 year. (Public.)—Dated 27th May, 1859.

35. John Schatzl, of Pfaffstetten, in Lower Austria, for "An invention for preventing cracking in cast iron during the process of cooling."—1 year.—(Secret.)—Dated 27th May, 1859.

36. Albert Lowy, of New Pesth, for "An invention for manufacturing meerschaum pipes by pressure."—1 year.—(Secret.)—Dated 27th May, 1859.

37. Michael Selinger, of Vienna, for "An electromotive machine worked by electro-magnetism and intended to supersede steam engines and all other motive powers."—1 year.—(Secret.)—Dated 28th May, 1859.

38. John Wallace Duncan and James Eglinton Anderson Gwynne, of Paris, represented by Georg Märkl, Vienna, for "An improvement in the mode of producing and condensing steam."—1 year.—(Public.)—Dated 28th May, 1859.

39. Joseph Herzfeld, of Vienna, for "A new plough with three shares or coulters."—1 year.—(Secret.)—Dated 28th May, 1859.

40. Joseph Wilner, of Pesth, for "An improvement in the production of playing cards by means of an oil paper with the design in all colours applied to the back of the cards."—1 year.—(Secret.)—Dated 30th May, 1859.

41. Henry Mall, of Landeck in Tyrol, for an invention of "A new substance for matches, free from phosphorous."—1 year.—(Secret.)— Dated 30th May, 1859.

42. Morris Blaskopf, of Vienna, for "An improvement in the manufacture of shoe blacking."—3 years.—(Secret.)—Dated 30th May, 1859.

43. Philipp Hamburger, of Pesth, for "A peculiar method of rendering every description of leather, even when glazed, watertight."—1 year.—(Secret.)—Dated 30th May, 1859.

44. John Bürgl, of Tüffer, in Styria, for an invention of "Manufacturing ropes and driving bands of steel, iron, or other metal."—1 year.—(Public.)—Dated 30th May, 1859.

45. Charles Dupret, of Charleroi, in Belgium, represented by Ernest Galvagni, Vienna, for an invention for "Producing coke in solid lumps, (called 'Coke agglomeré') from various sorts of ashes."—1 year.—(Secret.)—Dated 30th May, 1859.

46. Francis von Schwind, of Hall, in Tyrol, for an "Improved apparatus for using broken granular, fibrous and pulverized substances as fuel, called 'Schwind's universal combustion pump.'"—5 years.—(Secret.)—Dated 30th May, 1859.

47. William Skallitzky, of Vienna, for an invention of "Manufacturing lacquered coverings for the head, such as hats and caps, soldiers' hats from woven or knitted fabrics of linen, wool, or silk."—1 year.—(Secret.)—Dated 30th May, 1859.

2. Patents Prolonged.

1. Alfred Hartman, for "An improvement in English malt kilns."—2nd year.—(Secret.)—Dated 13th March, 1858.

2. Gustavus Jacger, for an invention of "A peculiar letter paper."—2nd year.—(Public.)—Dated 17th April, 1858.

3. Conrad Otto, for "Improvements in a self-acting coffee machine."—2nd year.—(Public.)—Dated 20th April, 1858.

4. Marcus Back, (Leopold Topf, assignee), for "An invention and improvement in the manufacture of linen, cotton, and woollen fabrics."—8th year.—(Secret.)—Dated 13th May, 1853.

5. Christian Charles Knoderer, for "Improvements in tanning."—4th year.—(Secret.)—Dated 22nd April, 1856.

6. Dominique Didier, for "A new brake for railway carriages."—4th year.—(Public.)—Dated 21st April, 1856.

7. Alois Quenzer and Son, for "Improvements in felt hats."—4th year.—(Secret.)—Dated 13th May, 1856.

8. John Baptist Piattie and Eligius Collella, for an invention of "A machine for making horse shoes."—2nd year.—(Secret.)—Dated 10th April, 1859.

9. Edward Schmidt, for an invention for "Purifying the oil left in the bearings of railway carriages and machinery."—2nd year.—(Secret.)—Dated 22nd April, 1858.

10. Francis Charles Hillardt, for an "Improvement in the drawing apparatus of Albert Durrer, called 'Perspective drawing apparatus.'"—2nd year.—(Public.)—Dated 26th April, 1858.

11. Alois Quenzer and Son, for an invention of "Elastic silk hats."—2nd year.—(Secret.)—Dated 4th May, 1858.

12. Louis Lechatelier, for an invention of "A particular application of the acids resulting from fluor in the manufacture of natron, kali, and various accessory products."—2nd year.—(Secret.)—Dated 31st July, 1858.

13. Peter Catraro, for "An hydraulic cement of superior quality."—2nd year.—(Secret.)—Dated 18th February, 1858.

14. A. M. Pollak, for "Improvements in the manufacture of articles for igniting."—6th and 7th year.—(Secret.)—Dated 16th August, 1854.

15. Charles Krammer and Francisca Scharinger, for "A new nail making machine to be worked by hand."—3rd year.—(Secret.)—Dated 27th April, 1857.

16. Francis Schmutz, for "Improved shears for vines."—2nd year.—(Public.)—Dated 30th May, 1858.

17. Peter Joseph Guyet, for "An application of vulcanized india rubber to valves and cocks."—2nd year.—(Public.)—Dated 29th October, 1858.

18. Theresa Preshel, for "An improved process in the manufacture of aromatic ethers and spirits, hair oils, and pommatum."—2nd year.—(Secret.)—Dated 1st May, 1858.

19. John Czermak, assignee William Lowenthal, for "Improved wicks for lanterns."—2nd year.—(Public.)—Dated 1st May, 1858.

20. Julius Eckel, for "An improved threshing machine to be worked by hand."—2nd year.—(Public.)—Dated 4th May, 1858.

21. Adolphus Schöller, for "Improvements in the manufacture of felt."—3rd and 4th years.—(Secret.)—Dated 21st May, 1857.

22. John Urfus, for "Improvements in the manufacture of mineral manure."—4th year.—(Secret.)—Dated 12th May, 1856.

23. John Urfus, for "A new mineral manure."—4th year.—(Secret.)—Dated 13th May, 1856.

24. Joseph Blümel, for "A new machine for cutting wooden slabs for roofing."—2nd year.—(Public.)—Dated 3rd May, 1858.

25. John Kranzelbauer, for "A belt to prevent protrusion of the stomach."—3rd year.—(Public.)—Dated 7th May, 1857.

26. Leopold Köppel, for "An apparatus for collecting, registering, and publishing addresses and advertisements.—3rd year.—(Public.)—Dated 10th May, 1857.

27. Ignatius Schoffer and Mary Baader, for "An improved mode of extracting cumarin from substances containing such, and preparing a perfume therefrom."—3rd year.—(Secret.)—Dated 10th May, 1857.

28. John Preshel, assignee Theresa Preshel, for "A cosmetic remedy for purifying the skin."—3rd year.—(Secret.)—Dated 10th May, 1857.

29. John Burda, for "Improved powder flasks." —3rd year.—(Public.)—Dated 13th May, 1857.

30. Ignatius Gatter, for "An apparatus by which liquid and dry goods can be protected against shaking, change of temperature, and adulteration during carriage or storing."—2nd year.—(Secret.) —Dated 8th May, 1857.

31. Joseph Jacob and Dr. Francis Köller, partial assignees Klein Brothers, for "An invention for applying the Wolfram metal and its chemical compounds to metallurgical and other industrial objects."—2nd and 3rd year. — (Secret.)—Dated 10th May, 1858.

32. Daniel Wambera, for "A machine for making ornamental paper shavings."—2nd year.—(Secret.) —Dated 10th May, 1858.

33. Adolphus Kur, for "A new valve gear in steam engines."—2nd year.—(Secret.)—Dated 31st May, 1858.

34. Joseph Seykora, for "A smoke-consuming apparatus."—2nd year.—(Secret.)— Dated 16th March, 1858.

35. Benjamin Moore, for "A new sewing machine."—6th year.—(Public.)—Dated 26th May, 1854.

36. Francis Bartosch, for "A new cement for stopping decayed teeth."—6th and 7th years.— (Secret.)—Dated 17th May, 1854.

37. Charles Fischer, for "A new mangle."— 5th year.—(Public.)—Dated 17th May, 1855.

38. Frederic Paget, for "Improvements in locomotives."—4tn year.—(Public.)—Dated 12th May, 1856.

39. Joseph Morawetz, for "A new construction of presses."—4th year.— (Public.) — Dated 2nd June, 1856.

40. Herman Henry Frickenhaus, for "An application of centrifugal power for extracting the raw juice from beetroots." — 4th–9th year. — (Public.)—Dated 9th August, 1856.

41. Francis Chapusot, for "An apparatus for emptying cesspools."—3rd year.—(Secret.)—Dated 3rd May, 1857.

42. Henry Tempele, for "An improved distilling and rectifying apparatus in the manufacture of spirits of wine."—3rd year.—(Secret.)—Dated 10th May, 1857.

43. Alexander Bonzanini, for "A method of producing lighting gas from brown coal and vegetable remains."—2nd year.—(Secret.)—Dated 8th May, 1856.

44. Peter Hugon, for "Improvements in compressing and conducting gas."—4th year.—(Secret.) Dated 8th July, 1856.

45. Couillard Fautrel's widow, sons, and nephews for "Improvements in baking and consolidating the waste of substances used for burning." —2ndyear.—(Secret.)—Dated 18th June, 1858.

46. Joseph Juttner, for "An improved form of tile for roofing."—2nd year. — (Public.)—Dated 29th May, 1858.

47. Alois Mollner, for an "Improvement upon his Patent of 16th April, 1848, in the manufacture of drawn seemless tubes and joints."—7th year.— (Secret.)—Dated 20th May, 1853.

3. Patents Transferred.

1. Charles Reisser and Caroline Reisser, transferred to Charles Reisser, for "An improvement in his patent inocuous fly and insect paper." —Dated 22nd September, 1858.

2. Augustus Huland, transferred to James Gray William Curtis, for "A new smelting furnace for all descriptions of iron ore."—Dated 27th December, 1857.

3. James Grunberger and B. Löwy, transferred to Francis Geringer, for an invention for "Making wooden pegs for shoes and boots."—Dated 6th May, 1858.

4. Peter Catraro, transferred to Henry Escher, for "A new hydraulic cement of superior quality." —Dated 18th February, 1858.

5. Charles Lichtl, transferred to Josephine Liehtl, for an invention of "A furnace for burning bones to charcoal."—Dated 30th March, 1857.

6. Augustus Lenz, transferred to Julius Mahler, for "Improvements in machines for shelling and cleansing rice, wheat, and other grains."—Dated 31st May, 1858.

7. Samuel Handl, transferred to Max Koch, for "An improved soap for washing."—Dated 15th April, 1858.

4. Patents which have become Void.*

1. William Bridges Adams, for "An improved railway construction."—Dated 16th March, 1856; expired 16th March, 1859.

2. Francis Thiel and Francis Charles Thiel, for "Improvements in omnibusses by bringing the hind wheels underneath the body of the carriage."—Dated 29th September, 1855; withdrawn 26th January, 1859.

3. Ferdinand Knobbe, for "A mode of extracting from coal, brown coal, turf and bituminous fossils, paraffin and photogen being a simplification of the present process."—Dated 8th February, 1857; expired 8th February, 1859.

4. Giles Mabie, for "An improved machine for cutting and mowing corn."—Dated 9th March, 1857; expired 9th March, 1859.

5. Rudolph Stengl, for "An invention for producing plastic ornaments, such as frames, vases, &c. from iron wire wound round with thread."— Dated 5th December, 1858; withdrawn 2nd May, 1859.

6. Alphons Louis Poitevin, for "An application of printers' ink as well as liquid and solid colours in photography."—Dated 12th February, 1856; expired 12th February, 1859.

7. Francisca Honoria Felicia Louic, for "A so-called 'Table-bed.'" — Dated 2nd February, 1858; expired 2nd February, 1859.

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

8. Adolphus Pecoul, for "A nautical instrument for determining the strength and direction of currents."—Dated 17th March, 1858; expired 17th March, 1859.

9. Marc Anthony Francis Mennons, for "A new gas retort with hydraulic joints."—Dated 10th April, 1858; expired 10th April, 1859.

10. George Heidenwag, for "An improvement in turn-tables for railways by which the supports for the rails and rim are made wholly of wrought iron, and the pulleys have a particular position and project partly above the turn-table.'—Dated 30th March, 1858; expired 30th March, 1859.

11. Alphons Sobard, for "An improvement in lighting with gas or oil by which a complete combustion and great saving is effected."—Dated 7th November, 1853; expired 7th November, 1858.

12. Joseph A. Grünwald, for "A circular loom."—Dated 7th November, 1853; expired 7th November, 1858.

13. William Hodgson, for "Improvements in the manufacture of fibrous substances by particular machines."—Dated 7th November, 1853; expired 7th November, 1858.

14. Joseph Scacchi and Sons, for "A new silk spinning machine."—Dated 22nd November, 1853; expired 22nd November, 1858.

15. J. Preshel, for "A new method for extracting the finest scent from all aromatic vegetables as blossoms, leaves, stalks, fruit, bark, wood, roots, and sap and to manufacture therefrom pommatums, hair oil, aromatic spirits and soap."—Dated 23rd November, 1853; expired 23rd November, 1858.

16. Alexis Zoppinger, for "An improved spindle for twisting the silk."—Dated 30th November, 1853; expired 30th November, 1858.

17. Joseph Bischof, for "An invention for manufacturing fine paper, packing paper, and board from wood fibres by means of machines already known."—Dated 1st November, 1855: expired 1st November, 1858.

18. Henry Miller, for "Artificial mineral grindstones."—Dated 9th November, 1855; expired 9th November, 1858.

19. Orestes Rossi, for "Producing lighting gas by the decomposition of water."—Dated 7th November, 1856; expired 7th November, 1858.

20. Frederic George Wieck, for "New arrangements in spinning jennies and a new process of spinning."—Dated 9th November, 1856; expired 9th November, 1858.

21. Frederic George Wieck, for "An invention for treating old ropes, cloth, &c. in order to obtain therefrom a thread which can be spun afresh."—Dated 11th November, 1856: expired 11th November, 1858.

22. Frederic George Wieck, for "Machines for combing and cleansing various short fibres fit for spinning."—Dated 29th November, 1856; expired 29th November, 1858.

23. Peter Saroglia and Valentine Belli, for "Improvements in the English inodorous water-closets."—Dated 29th November, 1856; expired 29th November, 1858.

24. Ferdinand Böhm, for "A power knitting frme, on which work can be done of any width, and so that both sides shall be the right sides."—Dated 29th November, 1856; expired 29th November, 1858.

25. Otto Schütte, for "Improvements in smelting furnaces with heated blast."—Dated 29th November, 1856; expired 29th November, 1858.

26. Joseph v. Kliegl, for "A sound noting machine, with or without electro-magnetism, on which whatever is played on a key instrument, will be noted down by means of signs, so that whatever has been played may be read off with the most delicate shades, and transferred into ordinary musical notes."—Dated 29th November, 1856; expired 29th November, 1858.

27. Wenzel Swetelsky, for "Manufacturing wadding from sheep's wool, by means of a heckling machine and a roller arranged upon the principle of a fulling mill."—Dated 29th November, 1856; expired 29th November, 1858.

28. Gustavus Pfeifinger, for "An apparatus with which burning cigars and cigarets can be immediately extinguished."—Dated 3rd November, 1857; expired 3rd November, 1858.

29. Gustavus Pfeifinger, for "An improvement in an hydraulic spigot for casks."—Dated 16th November, 1857; expired 16th November, 1858.

30. Gustavus Pfeifinger, for "An invention by which vermin of any kind can be destroyed in the deepest crevices of walls and timbers."—Dated 17th November, 1857; expired 17th November, 1858.

31. Thomas Agudio, for "A new pilot engine for moving railway trains on heavy inclines."—Dated 8th November, 1857; expired 8th November, 1858.

32. Robert Monkowsky, for "Improvements in coke furnaces."—Dated 8th November, 1857; expired 8th November, 1858.

33. Francis Horvath, for "A street-sweeping machine which also waters and takes up the dirt."—Dated 7th November, 1857; expired 7th November, 1858.

34. Francis Olbrich, for "A new mode of making velvet and for raising the pile of other fabrics by a peculiarly constructed machine."—Dated 7th November, 1857; expired 7th November, 1858.

35. Peter Pisetti and Vincent Griseri, for an invention for "Deodorizing public urinals &c., and extracting therefrom guano for manure."—Dated 8th November, 1857; expired 8th November, 1858.

36. Louis Cassina, for "A rotary sewing machine."—Dated 8th November, 1857; expired 8th November, 1858.

37. Samuel Popper, for "Producing a toilet soap from the refuse of hides and leather."—Dated 15th November, 1857; expired 15th November, 1858.

38. George Pfanzeder, for "A peculiar construction of weighing machines."—Dated 16th November, 1857; expired 16th November, 1858.

39. John Felsinger, for "Water-tight coverings for railway carriages and glass houses."—Dated 16th November, 1857; expired 16th November, 1858.

40. Alois Platzer and L. Ruziczka junr., for "An ink powder, easily soluble in water, and to be used also for copying ink."—Dated 17th November, 1857; expired 17th November, 1858.

41. Edward Schmdt and Frederic Paget, for "Improvements in the construction of points and switches in railway crossings."—Dated 21st November, 1857; expired 21st November, 1858.

42. Edward Warrens and Liegfried Marcus, for "An electromotor called 'Disk electromotor,' which combines rotary with rectilinear motion, and in which the electromagnetic force is utilised to the utmost extent."—Dated 21st November, 1857; expired 21st November, 1858.

43. Herman Gotthilf Möhring, for "Improvements in flour mills in which by means of cylinders and cavities on their surface every description of grain may be ground to any fineness."—Dated 24th November, 1857; expired 24th November, 1858.

44. Francis Piller, for "An apparatus to render water-closets in rooms or houses perfectly inodorous."—Dated 24th November, 1857; expired 24th November, 1858.

45. Morris Thielen, for "Improvements in the so-called 'Raguenau press.'"—Dated 25th November, 1857; expired 25th November, 1858.

46. Theophilus Weisse, for "A crushing and coarse and fine grinding mill."—Dated 25th November, 1857; expired 25th November, 1858.

47. Joseph König, for "An improvement in hydraulic spigots for casks."—Dated 25th November 1857; expired 25th November, 1858.

48. Joseph Lentschick, for "A water raising machine by which water may be raised to any height in sufficient quantities."—Dated 27th November, 1857; expired 27th November, 1858.

49. Adolphus Postler, for "Improvements in watertight woollen hats."—Dated 30th November, 1857; expired 30th November, 1858.

50. Charles Kutschke, for "Improvements in the manufacture of felt and silk hats."—Dated 24th March; expired 24th March, 1858.

51. John Seidenschnur, for "Elastic rings in gold or silver, with or without jewels, which fit the finger exactly, and can be easily removed and put on."—Dated 27th March, 1857; expired 27th March, 1858.

52. Joseph Stoufs, for "A new method for applying lithography to paper by other means than those hitherto in use, and producing a peculiar effect."—Dated 9th January, 1854; expired 21st May, 1859.—This Patent became void in consequence of its want of novelty.

53. Herman Pollak and Joseph Klein, for "Improvements in every description of men's clothing to protect them against the effects of perspiration."—Dated 11th April, 1858; expired 11th April, 1859.

54. James Augustus Door, for "A new gas regulator."—Dated 7th January, 1854; expired 7th January, 1859.

55. George Basil Dirwell and James Augustus Door, for "Improvements upon the Patent of 7th January, 1854, in gas regulators."—Dated 3rd April, 1854; expired 3rd April, 1859.

56. Charles Goodyear, for "Improvements in cleansing india rubber and similar glutinous substances including gutta percha."—Dated 15th April, 1854; expired 15th April, 1859.

57. Rudolph Ditmar, for "Improvements in asphalt and teresin pavements."—Dated 18th December, 1849; expired 14th December, 1858.

58. John Lehner, for "Improovments in the manufacture of axles for wheels and waggons."—Dated 15th March, 1857; expired 15th March, 1859.

59. Leonard Phleger, for "Improvements in steam boilers for the consumption of anthracite or bituminous coal."—Dated 19th April, 1857; expired 19th April, 1859.

60. Herman Kohn, for "A mode of cleansing every description of hats from fatty substances and restoring them as good as new."—Dated 15th September, 1858; expired 30th May, 1859.—This Patent became void in consequence of its want of novelty.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 19th July, 1859, and each bearing that date.

No. 24,784. Lewis Allen, of Sleepy Creek, Va., for an "Improved washing machine."

"What I claim is, the construction of the open hollow washing, rinsing, and dipping cylinder, composed of a series of bars *r*, *r*, *s*, *s*, placed at regular intervals from each other, and provided with an open net work *u*, *u*, as described. I also claim in combination therewith, the fluted or rigid pressure squeezing cylinder *q*, *q*, and detachable framing *e*, *e*, *e*, *f*, *f*, *g*, *g*, g^2 g^1 *h*, *h*, *i*, *i*, *k*, *k*, when arranged, used, and operated in the manner substantially as set forth and described."

No. 24,785. Jacob Barney, of Chicago, Ill., for an "Improvement in variable exhaust device for steam engines."

"I claim, 1st, the employment of two cylinders B, B, so provided with gradually tapering grooves in each, that when revolved together an expanding and contracting circular opening will be formed for the purposes of regulating the passage of the exhaust steam from locomotive and other engines, substantially as herein set forth. 2nd, I claim the cylinders B, B, as constructed, when used in combination with the tight metallic case C, C, and packing *o*, *o*, the same being arranged and operating in the manner and for the purpose herein fully set forth."

No. 24,786. James Baylor, of Canton, Ill., for an "Improvement in universal joints."

"What I claim is, connecting shafts, when placed angularly with each other by means of the universal joints, constructed as represented and described, by which a rotary motion may be transmitted from one shaft to the other."

No. 24,787. W. H. Bettes and J. H. Parker, of Kokomo, Ind., for an "Improvement in boot-trees."

"We claim, 1st, the employment of the sleeve (*c*), in connection with the screw shaft *g*, the two being arranged and operating substantially as set forth. 2nd, the arrangement of the cords *e*, *h*, and *i*, with the levers *d*, d^1, and *m*, substantially in the manner and for the purpose set forth. 3rd, the combination of the instep K, side pieces H, H^1, and toe piece I, when the whole are so arranged and constructed that they will operate simultaneously, substantially as and for the purpose described."

No. 24,788. John T. Bever, of Hainesville Mo., for an "Improved bedstead cord pin."

"What I claim is, a bedstead cord pin, consisting of two parts (*a*, *b*,) which are constructed and operated in the manner and for the purpose substantially as herein described."

No. 24,789. Wm. Bull, of New California, Wis., for an "Improvement in sugar-cane presses."

"What I do claim is, the arrangement and combination of the hinged adjustable frame E, roller J, frame A, wedge F, inclined spouts L, L^1, and rollers D, as and for the purpose herein shown and described."

No. 24,790. A. H. Burdine, of Chulahoma, Miss., for an "Improved cotton-gin sharpener."

"I claim, 1st, the combination of two crossed reciprocating files F, F, with a circular feeding disk *r*, which is constructed with an angular recess, and an inclined hook r^1, at one point of its circumference, substantially as and for the purposes set forth. 2nd, the combination of the above with a jointed slotted frame, and a driving cam, substantially as and for the purposes set forth."

No. 24,791. Peter N. Burke, of Buffalo, N. Y., for an "Improvement in stoves."

"I claim the arrangement and combination of the perforated plates N, R, the partitional plate B, the flue H, the fire guard I, hot-air pipe L, and chamber K, as and for the purpose herein shown and described."

No. 24,792. Jeremiah Carhart, of New York, N. Y., for an "Improvement in machines for planing metal."

"I claim, 1st, the pressure plate or plates in combination with the reciprocating bed and feeding strip, when said plates extend substantially the length of the blank to be planed, and the bed travels far enough to carry the feeding end of the strip entirely past the facing cutter, at each operation, substantially as set forth. 2nd, I also claim rebating the inner edges of the pressure plate or plates, as described, in such manner as to furnish at once edge guides and pressure for the blank while being fed to the cutters. 3rd, I also claim, in combination with the pressure plates and cutters, the shields extending downwards from the pressure plates to protect the space between the plates from shavings and other foreign matter, as described. 4th, I also claim, in combination with the reciprocating bed and feeder, the scraper and brush acting in combination for cleaning the bed and feeder, or feeding strip, substantially as described."

No. 24,793. Heman Carter, of Greene, N.Y., for an "Improvement in harvesters."

"What I claim, is, the vibrating discharger F in combination with the rake *e*, arranged and operated in the manner described for the purposes specified."

No. 24,794. Robt. Cartwright, of Ithaca, N.Y., for an "Improved canal-boat propeller."

"I claim as new, and of my own invention, the step or bearing block I, constructed and arranged relatively to the rudder and vessel, substantially as described, to receive the end thrust of the propeller shaft, and thus relieving the gearing and rudder from pressure, the whole end thrust of the propeller being upon the step block I, which is arranged to admit of any lateral motion to the vessel's centre line, thus forming a steering as well as propelling power, and being all placed externally it entirely obviates the necessity of entering the vessel below the water line."

No. 24,795. Wm. Chesterman, of Centralia, Iowa, for an "Improvement in coffee pots."

"What I claim is, the arrangement and combination of the piston-packed strainer E, cylinder D, receiving vessel A, socket H, and condenser F, as and for the purpose herein shown and described."

No. 24,796. John Clary, of Dayton, O., for an "Improved vegetable cutter."

"What I claim, is, the arrangement of the shaft of the cutting disk, suspended from the cross piece (*b*) in connection with the convex cutting edge of the cutters (*h*), substantially in the manner and for the purpose set forth."

No. 24,797. Wm. H. Davis, of Austin, Ind., for an "Improvement in double-acting pumps."

"I claim the construction and arrangement of the air-chamber, side pipe, and cylinders, and flange at the top, all in one piece of casting, for the purpose of suspending the cylinders sufficiently deep in the well to prevent freezing, in combination with the bottom plate, substantially as above set forth."

No. 24,798. Rufus Dawes and Warren C. Choate, of Washington, D.C., for an "Improvement in stoves.

"We claim the combination of a new fire-room for a downward draft, having a lid to close the opening at the top, containing a valve in the lid and an open grate in front, having a door to close this opening air-tight, with a system of ovens heated and ventilated, as specified."

No. 24,799. Benjn. F. Field, of Sheboygan Falls, Wis., for an "Improvement in rotary cultivators."

"I claim the combination of two or more wheels on one crank, eccentric or equivalent axle, when the said wheels are arranged in pairs on the axle, one wheel within the other, and so as that the spades or forks attached to the inner wheels, shall pass out and in through the apertures in the outer wheels, for the purpose of displacing and pulverizing the soil over which they pass, in the manner described."

No. 24,800. James D. Field, of Davenport, Iowa, for an "Improvement in stoves."

"I claim the fire-chambers D, I, flue F, and water-heater H, the latter been provided with inclined tubes *a*, to form the grate of the fire chamber D, the above parts being arranged relatively with each other, the oven B, and the smoke pipe C, to operate as and for the purpose set forth."

No. 24,801. Ambrose Foster and Noah Sutton, of New York, N.Y., for an "Improvement in variable cut-off gear for steam engines."

"We claim the employment for operating either the main valve or valves of an engine, or a separate cut-off valve or valves of a compound cam composed of two parts C and D, constructed and combined with each other, and applied to the main, or a counter shaft, substantially as herein described."

No. 24,802. August Freutel, of New York, N.Y., for an "Improved lock for safes, &c."

"I claim, first, the slotted wheels *m* (on the tumbler *l*) and the plates 7, in combination with the wheels 6 of the knobs *k*, when said wheels *m* are so arranged that the act of unlocking or attempting to unlock the bolt moves the wheels *m* away from the wheels 6, in the manner and for the purposes specified. Second, in combination with the tumbler *l*, carrying the wheels *m*, and acting as aforesaid, I claim the cross piece *n* and tumbler *o*, substantially as and for the purposes set forth."

No. 24,803. C. B. Garlinghouse and G. B. Garlinghouse, of Allenville, Ind., for an "Improvement in harvesters."

"We claim the peculiar arrangement of the disk (C) in relation to the mechanism for operating the cutters, the standard K, and sliding frame *m*, in the manner and for the purpose specified."

No. 24,804. Halvor Halvorson, of Cambridge, Mass., for an "Improved trimmer for lamp wick."

"I claim in combination with a knife D and bed cranvil E, or other suitable wick-cutting devices, gauges *e*, *f*, constructed and arranged as shown, or in such a manner as to hold or retain the wick, and prevent it expanding laterally while under the action of the cutting device, for the purpose herein set forth."

No, 24,805. Jacob Hess, of Niagara Falls, N. Y., for an "Improvement in lathes."

"I claim the combination of the grooved central shaft *m* with its movable disks *e*, *f*, adjusting gears *k*, *i*, and index

spring hook *n*, all of said parts being constructed and arranged in relation to each other, as and for the purpose set forth."

No. 24,806. Grove Howard, of Westfield Township, Ohio, for an "Improvement in machines for raking and loading hay."

"I claim the arrangement of the endless belt F, pulleys D, and E, curved teeth R, rods K, lever *m*, and catch *d*, in the frame A, and with the body I, the whole being constructed and operating substantially as and for the purpose specified."

No. 24,807. Lewis S. Hoyt and Benjn. B. Beers, of New Fairfield, Conn., for an "Improved bit-stock and wrench."

"1st, we claim the above described wimble or bit-stock wrench, with one permanent and one movable jaw, which may be readily adjusted to turn nuts or screws of different sizes, substantially as described. 2nd, we claim the block K, or its equivalent, with a socket adapted to receive and hold the shanks of common bits, and fitted to the permanent or movable jaw, or both, so as to hold the block and bits, substantially as described. 3rd, we also claim the screw N so arranged as to fasten the block on to the jaw C and the bit in the socket L at the same time, substantially as described."

No. 24,808. Wm. Johnston and Martin Silmser, of Auburn, N. Y., for an "Improved steam cock."

"I claim a plug cock with a sectional plug, whose sides are inclined to its axis, in combination with a single casing, through which and directly opposite are openings, whose sides are parallel to the axis of the plug, and constructed as described."

No. 24,809. David Knowlton, of Camden, Me., for an "Improved joint for pump pipes, &c."

"What I claim is, making the joint hemispherical, in combination with the stiff or rigid flanges, by which the parts joined hemispherically may be held at the desired angle, substantially as described."

No. 24,810. David Knowlton, of Camden, Me., for an "Improved ship's warping chock."

"I claim the cast iron warping chock described as a new article of manufacture."

No. 24,811. A. Henry Lowell, of Manchester, N. H., for an "Improved hose coupling."

"I claim the locking devices described in combination with the screw tube K, arranged in connection with and on the outside of said locking devices, substantially as described."

No. 24,812. Franklin I. May, of Beverly, N. J., for an "Improvement in grain separators."

"1st, I claim the two side or supplementary inclined planes (C and C^1), in combination with the short inclined plane (B) and the two adjustable guides (*r* and r^1), the same being constructed and arranged together, so as to operate substantially as and for the purposes described and set forth. 2nd, I claim the employment of the sliding board (E) in the shaker (E^1), when the said board is arranged to operate in combination with the screen therein, in the manner described, and for the purpose of better preparing the grain, &c., for the inclined planes (B, C, and C^1) and the rotary screen (A), as described and set forth."

No. 24,813. James H. Maydole, of Eaton, N.Y., for an "Improvement in foot stoves."

"What I claim is, in combination with a foot stove, the several parts thereof being arranged in the order specified, the employment of a lamp, constructed with an intermediate space P filled with plaster of Paris, or the equivalent thereof, whereby I am enabled to prevent the heating of fluid contained therein, for the uses and purposes herein set forth."

No. 24,814. Isaac C. Mayer, of Jersey City, N.J., for an "Improved machine for turning skins."

"What I claim is the implement constructed and operated as herein described, for the purpose of turning the skins used by furriers, as herein set forth."

No. 24,815. E. I. McCarthy, of Saugerties, N. Y., for an "Improvement in furnace grates."

"What I claim is a furnace, with a series of stationary grate bars, in combination with a series of movable blades, so arranged as to pass between and above the bars, and descend below, so far as not to obstruct the draught, and be beyond the influence of the intense heat of the furnace, as described for the purpose set forth."

No. 24,816. Z. N. Morrel, of Cameron, Texas, for an "Improvement in excavating and grading machine."

"I claim, 1st, the employment of a revolving cylinder of blades, arranged at the lower end of the inclined digger, in combination with said digger, and with a series of coulter ploughs, arranged at the front end of the machine, substantially as and for the purposes set forth. 2nd, the employment of a revolving cylinder of teeth or blades, arranged at the upper end of the inclined digger, in combination with said digger, substantially as and for the purpose set forth."

No. 24,817. Wm. Newell, of Philadelphia, Pa., for an "Improved machine for scouring and polishing coffee."

"What I claim is the combination of the two cylinders B and E, having a space between them, with the scarified arms or beaters L, M, moving in contrary directions, substantially in the manner and for the purpose herein described."

No. 24,818. Wm. Perkins, of Plympton, Mass., for an "Improvement in rail-road car brakes."

"I claim, 1st, the arrangement of the sliding buffers J, brake levers N, rod *i*, hooked rods *l*, l^1, and staple *n*, to operate in combination with the braker, substantially as and for the purpose specified. Second, arranging the brake shoes L, in combination with the staple *n* and hooks *m*, m^1, substantially as described. Third, the arrangement and combination of the hooked rods *l*, l^1, and the rods *o*, o^1, and with the staple *n*, so that the hooks *m*, m^1, can be adjusted according to the direction in which the car is to run, substantially as set forth. Fourth, the arrangement and combination of the sliding buffer J, lever P, and spring Q, substantially as specified."

No. 24,819. A. P. Petkin, of Hartford, Conn., for an "Improvement in the mode of heating drying cylinders by steam."

"I claim, in combination, the closed heating cylinders, force pump, vacuum valve, and connecting tubes, substantially in the manner as and for the purpose set forth."

No. 24,820. Wm. Porter, of Mexico, N. Y., for an "Improved saw-gummer."

"I claim, 1, the arrangement and combination of the lever (*p*) with the sliding box (*g*) by means of the bar (*m*), so as to give a continued and downward action upon the cutter or bur (f^1), by the use of the coiled springs (g^1, g^1), thereby feeding the said cutter or bur, as and for the purpose herein described. 2, the arrangement and combination of the index pointers (h^1, h^1) with the index (B), and the bars (t, t^1) connected to the frame A, so as to give any required direction to the cutter or bur (f^1), as and for the purpose herein set forth. 3, I also claim the use of the set screw (b^1), by means of which the distance between the blocks (a^1, a^1) is adjusted proportionally to saw plates of different thicknesses, prior to being fastened thereto by the eccentric lever (*c*, *c*)."

No. 24,821. John A. Reed, of Jersey city, N. J., for an "Improvement in oscillating steam engines."

"What I claim is, the arrangement of the reversing valve E, in a steam chest, on the top of the bridge piece D, in combination with the separate passages in the bridge piece communicating with the chambers in the trunnion boxes, substantially as herein described."

No. 24,822. Benjn. Robbins, of Machias, Me., for an "Improved apparatus for working pumps."

"What I claim is, the combination and arrangement of the crank *f*, fly wheel J, lever H, walking beam E, and piston rods D, D, as and for the purposes set forth."

No. 24,823. Edwd. A. L. Roberts, of New York, N. Y., for an "Improved furnace for dental purposes."

"What I claim is, the arrangement and application of the double inclined grates *c*, *c*, subsantially as and for the purposes set forth. I also claim, in combination with such inclined grates, the part B, to contain the muffle C, retort,

&c. the whole arranged substantially as and for the purposes set forth."

No. 24,824. Chas. Rundlett, of Alden, and John W. Drummond, of Winslow, Me., for an "Improved hay press."

"What we claim is, the arrangement of the driving drum or windlass K, and the driving gear I, with reference to the press box B, and the platen screws D, E, and their pinions, disposed on the sides of the press box. We also claim the combination and arrangement of the connecting rods F, F, and rings G, G, with each platen, elevating screw E, and the bais of the colour of the press box, the whole being to operate as specified. We also claim the mode of applying the draft rope guide M to the press frame and the driving pulley, that is, by means of a fulcrum *r*, and the screw or projection made to enter the helical groove of the driving pulley."

No. 24,825. Henry Sauerbier, of Newark, N. J., for an "Improvement in edge planes."

"What I claim, and desire to secure is, the bevel wheel *e*, pinion *b*, worm *a*, wheel *o*, socket shaft *p*, pinion D, feed wheel C, cutter head B, gauges *i*, roller J, lever piece *t*, and corliss head Fig. 3, constructed, combined, and arranged substantially as herein-above set forth, and for the purposes herein-above specified."

No. 24,826. Morrill A. Shepard, of Orio, Ill., for an "Improved hydraulic motor."

"What I claim is, the combination of the vacuum tube *e* and tube *c*, for giving motion to the water wheel by the action of an undammed stream, substantially as herein described."

No. 24,827. T. Briggs Smith, of Marietta, Ohio, for an "Improved metallic bung."

"What I claim is, a metallic screw bung for casks or other wooden vessels for holding liquids, with a knife-like thread, and an elevation at any point between the threads, and a shoulder on the bung let into the stave, substantially as and for the purposes specified."

No. 24,828. Lewis Solomon, of New York, N. Y., for an "Improvement in furnaces."

"What I claim is, so constructing a desulphurizing furnace for roasting the ores of precious metals as that the heat shall be applied first beneath the sole of the furnace, and afterwards on the surface of the ore, when the same is combined with a chamber arranged in the base of the chimney for the reception of such volatilized particles of ore, &c., as may be driven off by heat, or carried over by the draught, substantially as described."

No. 24,829. M. B. Spafford, of Warsaw, N. Y., for an "Improvement in snow ploughs."

"I claim the vertical rotary shaft S, with its spiral wings W, W^1, for the removal of snow from the railroad track, as described."

No. 24,830. Obed S. Squire, of New Haven, Conn., for an "Improvement in lasts."

"What I claim is, the arrangement and combination of the longitudinal sections A, B, strips C, D, and bolt E, as and for the purposes herein shown and described."

No. 24,831. Geo. Stover, of New Britain, Conn., for an "Improved meat masher."

"What I claim is, the hollow or solid cylinders with pointed angular teeth, the base of which teeth has nearly in contact, and in combination therewith, the device for adjusting the cylinders, all constructed substantially as and for the purpose specified."

No. 24,832. John G. Treadwell, of Albany, N. Y., for an "Improvement in stoves."

"What I claim is, the combination of the division C, with the damper D and door E, when the same are arranged, substantially in the manner and for the purpose herein specified."

No. 24,833. John G. Treadwell, of Albany, N. Y., for an "Improvement in stoves."

"What I claim is, the employment of the hinged plate J, in combination with the hearth plate above, the two being used and operated in the manner and for the purpose herein specified."

No. 24,834. A. K. Tupper, of Clarkston, Mich., for an "Improved elbow for stove pipes."

"What I claim is, constructing the joint of pipes P and P^1, with the flange f^1, and the overlapping flange f^1, so as to allow the pipe to be adjusted at any desired angle, substantially as described."

No. 24,835. Albert Warren, of Jefferson, Ohio, for a "Machine for cutting heels and soles for boots and shoes."

"What I claim is, the bent knife *y*, resting on the shoulders *x*, *x*, *x*, *x*, *x*, of the movable slides, as herein described, and for the purposes herein specified. I also claim the knife Y, resting on the shoulders, as herein described, in combination with the knife Q, adjusted as herein set forth, and by which any size or shape of leathers may be cut, ready to be sewed or pegged upon the boot or shoe."

No. 24,836. W. A. Wood and I. M. Rosebrooks, of Hoosick Falls, N. Y., for an "Improvement in harvesters."

"What we claim is, in combination with a main frame, supported upon two driving wheels, and which frame carries the shaft D, and main cog wheel E, a second frame; hinged to said shaft D so that the crank shaft on said second frame shall always be in a radial line to the main cog wheel E, however much said second frame may vibrate on the main frame, as set forth."

No. 24,837. Geo W. Watrous, of Hartford, Conn., for an "Improved fastening for bedstead drapery."

"What I claim is, a new manufacture or a new and improved article of manufacture, a drapery fastening, constructed of a case A, hook C, link D, Fig. 1, substantially as and for the purpose described."

No. 24,838. Henry R. Worthington, of Brooklyn, N. Y., for an "Improvement in pumping engine."

"What I claim is, 1st, the combination herein set forth and exhibited, of two direct acting pumping engines, propelled by steam or other fluid, so arranged as that each engine shall actuate the inlet and outlet valves governing the motive power of the other, thereby ensuring the constant action of at least one pump piston upon the water, and relieving the action of the pump from shocks and concussions. 2nd, I claim the arrangement herein shown, of two distinct systems of levers adapted to the steam and exhaust valves of each engine, the one system to be operated upon, for producing motion, and for determining the duration of the repose of the piston at the termination of the stroke, the other for bringing the pistons to a state of rest, all substantially as herein explained and set forth."

No. 24,839. Jacob Beachler, of Anderson, Ind., assignor to himself and J. F. Brickley, of same place, for an "Improvement in rail road switches."

"I claim the obstruction or 'scotch' E, applied to the turn out, and connected with the switch, so as to be operated automatically by the movement of the same, substantially as and for the purpose set forth."

No. 24,840. Norman Bedell, of Albion, N. Y., assignor to Stephen P. Bedell, of same place, for an "Improvement in elbows for stove pipes."

"I claim, 1st, the employment of the metallic frame C, constructed and used substantially in the manner and for the purpose herein set forth. 2nd, the combination of the clasp D with the frame C, as constructed for the purpose of holding the miter edges of the pipe together, substantially as set forth."

No. 24,841. Henry F. Cox, of Jersey City, N. J., and Alexr. Millar, of New York, N. Y., assignors to Henry F. Cox, aforesaid, for an "Improved machine for polishing corks."

"We claim the cork polishing machine, consisting of a series of rollers, roughened by a surface of pumice stone, or equivalent abrading material, and a brush or brushes, acting in conjunction, to polish the cylindrical portion of machine made corks, as described."

No. 24,842. Levi Dodge, of Waterford, N. Y., assignors to himself and Dodge and Blake, of same place, for an "Improvement in dies for shaping articles in metal."

"What I claim as my improvement in the forming of articles of iron or other metal, when such articles are to be

shaped by a simultaneous action or pressure of dies, on several or all sides, is the employment of the movable dies *e*, operating substantially upon the principles herein set forth."

No. 24,843. Moses H. Gragg, of South Boston, Mass., assignor to himself and Thos. A. Page, of same place, for an "Improvement in corn huskers."

"I claim the arrangement and combination of the small intermediate conical roller C, larger conical rollers A, B, guard G, and hopper D, as and for the purpose herein shown and described."

No. 24,844. Joseph C. Henderson, of Albany, N. Y., assignor to Rathbone and Co., of same place, for an "Improvement in stoves."

"I claim first, the air space *m*, between the oven and the fire, when so constructed and arranged, that a descending draft, the whole width of the stove, passes through said space, and thence to the fire, for promoting combustion, and at the same time, rendering the temperature of the oven more uniform, as set forth. Second, I claim the damper *u*, at the front end of the oven, in connection with the descending flue between the front plate and fire-box, whereby the oven can be entirely closed when the stove is in use for roasting, as specified."

No. 24,845. Lorenzo Lake, of Middlebury, Pa., assignor to himself and Wm. Patton, of same place, for an "Improved churn."

"I claim the dasher made in the manner as described in my specification and shown in drawings at L, when the same shall be operated by the devices as described, for the purpose herein set forth."

No. 24,846. Robt. McWilliams, of Philadelphia, Pa., assignor to Saml. H. Hoffman, of same place, for an "Improvement in journal boxes for rail road cars."

"I claim first, the upper half A, of the box, with its socket, formed by the flanges *h*, in combination with the lower half B of the box, when the two halves are arranged substantially as set forth, so that on adjusting the lower half to its place, it may assume the position shown in Fig. 1, and so that when adjusted, the end *w* of the oil chamber shall be close to the axle, as and for the purpose specified. Secondly, the self-adjusting leather packing E and the metal plate F, when both are dependent upon the lower half of the box for their proper position within the other half, and when they are otherwise arranged, in respect to both upper and lower half of the box, as and for the purpose set forth."

No. 24,847. Louis Planer, of New York, N. Y., assignor to himself and Joseph Auger, of same place, for an "Improvement in sewing machines."

"I claim the combination of the peculiarly constructed notch *a*, *b*, *c*, which is confined to the upper half of the shuttle, and leaves the lower half intact, with a driver having a single horn or finger, which, entering the said notch, constitutes a guard, to prevent the flying up of the heel of the shuttle, substantially as herein described."

No. 24,848. Geo. W. Richardson, of Grayville, Ill., assignor to himself and Geo. M. Weed, of same place, for an "Improvement in harvesting machines."

"I claim the application of the rack (*d*), upon the reciprocating bar D, D, and pinion (*i*), upon the vertical shaft H, connected and arranged for operating the two sickles at the same time, by the cam wheel (*c*), in manner described."

No. 24,849. Lyman L. Thomas, of Dighton, Mass., assignor to the Dighton Furnace Company, for an "Improved damper for cooking stoves."

"I claim the damper D, substantially as herein set forth, or in other words, I claim a damper placed in the outlet of the return flue of a cooking stove, near the termination of said flue, and of such a form that when secured or hinged at its lower end to the side of the flue opposite the oven, and when partially or fully closed, it shall stand in a position more or less diagonal across the flue, and of such a length that it can never be moved more than twenty-five degrees from a perpendicular."

Re-issues.

Lewis Miller, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim hinging the finger beam to the main frame, so that it can be folded up thereon, substantially as herein described."

Lewis Miller, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim hinging the coupling arm to the frame at one side of the main axle, and supporting it by a brace, hinged to the frame on the opposite side of the axle, in such manner as to obtain among other things a wide basis for bracing on a short frame without interfering with the folding up the finger-beam against or upon the frame to render the machine more portable, substantially as described."

Lewis Miller, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim the combination of the crank and the bearing for its journal, the cutter, the coupling arm, and the hinge of its inner end, with a hanger which is made the common support for the hinge of the coupling arm, and the journal of the crank, arranged and operating substantially as herein set forth."

Lewis Miller, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim, the method of folding the finger-beam upon the frame by aid of the coupling-arm with a lifting-lever and cord, or the equivalent thereof, substantially as herein set forth."

Lewis Miller, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim, first, the combination of a knuckle with the joint which connects the finger beam, and coupling arm, and the lever for raising the finger beam off the ground, the several parts being constructed and arranged as set forth. Second, the combination of a lever arranged to turn on a pivot and to vibrate laterally, with notches and a catch to support the lever at any required elevation, together with the coupling arm and finger beam suspended to it, substantially as herein set forth."

Lewis Miller, of Canton, Ohio., assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim the arrangement of the hand lever R, driver's seat (V), and foot lever (P), whereby the driver may, when necessary, employ both his hands and his feet to raise the finger-beam, substantially as set forth."

Lewis Miller, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim the combination of the spring pawl and the teeth with the gib and key of the connecting rod, the connecting rod and cutter, substantially as herein set forth."

Cornelius Aultman and Lewis Miller, of Canton, O., assignors by Mesne Assignments to C. Aultman and Co., for an "Improvement in mowing machines."—Patented 17th June, 1856.—Re-issued 19th July, 1859.

"We claim the combination of the shoe which carries the end of the finger-beam next the main frame with a hinged brace-bar, whose axis of motion at the end connected to the main frame is in a line with that of the corresponding end of the hinged coupling-arm, substantially as herein set forth."

CORNELIUS AULTMAN and LEWIS MILLER, of Canton, O., assignors by Mesne Assignment to C. Aultman and Co., for an "Improvement in mowing machines."—Patented 17th June, 1856.—Re-issued 19th July, 1859.

"We claim the combination with the hinged coupling-arm of a hinged brace, whose axis of motion at the end next the main frame coincides with that of the corresponding end of the coupling-arm, substantially as herein set forth."

CORNELIUS AULTMAN and LEWIS MILLER, of Canton, Ohio, assignors by Mesne Assignment to C. Aultman and Co., for an "Improvement in mowing machines."—Patented 17th June, 1856.—Re-issued 19th July, 1859.

"We claim the construction and arrangement of the finger-beam and the main frame so that the beam may be turned on its hinge into an upright position, and then raised and leaned against the frame to elevate it out of the reach of obstructions, and distribute the weight more equally upon the carrying wheels when the machine is to be removed from one place to another where the mowing is to be done, substantially as described."

CORNELIUS AULTMAN and LEWIS MILLER, of Canton, O., assignors by Mesne Assignment to C. Aultman and Co., for an "Improvement in mowing machines."—Patented 17th June, 1856.—Re-issued 19th July, 1859.

"We claim the combination of a hinged coupling-arm, the finger-beam, and a catch, substantially as described, whereby the finger-beam can be turned, raised, and held up to render the removal of the machine from place to place more convenient and secure."

CORNELIUS AULTMAN and LEWIS MILLER, of Canton, O., assignors by Mesne Assignment to C. Aultman and Co., for an "Improvement in mowing machines."—Patented 17th June, 1856.—Re-issued 19th July, 1859.

"We claim mounting the two driving wheels and one main gear wheel upon a common axle in combination with a ratchet wheel for each driving, each ratchet wheel fitted with a pawl that can be made to stand in or out of gear with the ratchet-teeth at will, the whole arranged and operating substantially as described."

CORNELIUS AULTMAN and LEWIS MILLER, of Canton, O., assignors by Mesne Assignment to C. Aultman and Co., for an "Improvement in mowing machines."—Patented 17th June, 1856.—Re-issued 19th July, 1859.

"We claim the combination of a ratchet wheel, a ratchet pawl, a spring acting on the pawl, and a bearing pin, or the equivalent thereof, for the spring with the driving wheel and the axle of the main-gear wheel, whereby one spring is made to perform the two duties of holding the pawl both in and out of gear with the ratchet wheel, substantially as described."

LEWIS MILLER, of Canton, Ohio, assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim the combination of the inner shoe with a leading wheel, arranged substantially as herein set forth."

LEWIS MILLER, of Canton, O., assignor to C. Aultman and Co., for an "Improvement in harvesters."—Patented 4th May, 1858.—Re-issued 19th July, 1859.

"I claim the combination with the shoe of an adjustable sole of the peculiar double runner form herein described, whereby the sole can be adjusted directly to the heel of the shoe without the intervention of a link rod and joint, as herein set forth."

MCCLINTOCK YOUNG, jr., of Frederick, Md., for an "Improvement in harvesters."—Patented 21st September, 1858.—Re-issued 19th July, 1859.

"I claim connecting the handle of the rake to a transverse shaft in such a manner that the rotation of the said shaft when aided by the curved guiding rod R, or its equivalent will impart the within-described movements to said rake, viz.: a sweeping axial movement from the inner edge of the sector-shaped platform, (or a little beyond the same) over to the forward portion of said platform, and at that point instantly changing to an axial horizontal movement across the platform to the starting point, and so onwards in regular succession, substantially as herein set forth."

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By Authority.

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No. 584. TUESDAY, AUGUST 9, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

756. RICHARD BAKER, of Liverpool, in the county of Lancaster, Watch Maker, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in chronometers, watches, and other timekeepers."

As set forth in his petition, recorded in the said office on the 25th day of March, 1859.

767. And JOHN CAMPBELL EVANS and PETER SOAMES, of the Morden Iron Works, East Greenwich, in the county of Kent, Engineers, have given the like notice in respect of the invention of "Improvements in apparatus for superheating steam."

771. And JOSEPH BUCKLEY, of Horwich, in the county of Lancaster, Calico Printer, ORLANDO GREENHALGH, of the same place, Manager, and ROBERT HUTCHINSON, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for printing woven f brics."

As set forth in their respective petitions, both recorded in the said office on the 26th day of March, 1859.

773. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "An improved diving apparatus."—A communication from Philippe Bigard, residing in Lyons, in the empire of France.

As set forth in his petition, recorded in the said office on the 28th day of March, 1859.

781. And JOHN WILLIAM KELLY, Civil Engineer, of the town of Ennis, in the county of Clare, Ireland, has given the like notice in respect of the invention of "Improvements in gas burners."

As set forth in his petition, recorded in the said office on the 29th day of March, 1859.

801. And WILLIAM SMITH, of King Street, Smithfield, in the city of London, and EDMUND SMITH, of Hamburgh, Gas Meter Manufacturers, have given the like notice in respect of the invention of "Improvements in means or apparatus for the purpose of regulating the flow or passage of fluids."

As set forth in their petition, recorded in the said office on the 30th day of March, 1859.

802. And JOHN LACY, Cotton Spinner, and SAMUEL SIMPSON and HENRY SMITH, Managers, all of Travis Holme Mill, Walsden, near Todmorden, in the county of Lancaster, have given the like notice in respect of the invention of "Certain improvements in machinery for preparing and spinning cotton and other fibrous materials."

804. And ROBERT CRAIB ROSS, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvened apparatus for cultivating land."

808. And DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the county of Northumberland, Doctor of Medicine, has given the like notice in respect of the invention of "An improved indicating guage-lead or plummet."

As set forth in their respective petitions, all recorded in the said office on the 31st day of March, 1859.

834. And THOMAS WILLIAMS, of Aberdaron, in the county of Caernarvon, Engineer, and JOHN HOBSON FULLER, of 70, Hatton Garden, in the county of Middlesex, Tool Manufacturer, have given the like notice in respect of the invention of "Improvements in screw stocks and dies."

As set forth in their petition, recorded in the said office on the 2nd day of April, 1859.

836. And JOSEPH ECCLES, of Blackburn, in the county of Lancaster, Cotton Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for making bricks, tiles, and other articles formed of plastic materials."

840. And JAMES HENRY BURTON, of Enfield Lock, in the county of Middlesex, has given the like notice in respect of the invention of "Improvement in the manufacture of barrels for small firearms."

843. And CHAMPION RUSSELL, of Stubbers, near Romford, in the county of Essex, Esquire, has given the like notice in respect of the invention of "An improvement in the working of marine engines."

846. And EDMUND MOREWOOD, of Enfield, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in coating metals."

847. And DAVID SOWDEN, of Bradford, in the county of York, Jacquard Machine Maker, has given the like notice in respect of the invention of "Improvements in Jacquard machines employed for weaving figured goods or fabrics."

As set forth in their respective petitions, all recorded in the said office on the 4th day of April, 1859.

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857. And NICOLAS LIBOTTE, Mechanician, of No. 33, Boulevart, Saint Martin, Paris, empire of France, has given the like notice in respect of the invention of "An improved safety apparatus to be applied to cages in the drawing of coals."

As set forth in his petition, recorded in the said office on the 5th day of April, 1859.

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862. And WILLIAM OWEN, of Rotherham, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of railway wheels and tyres, and in the apparatus employed therein."—Partly a communication from Robert Owen, residing at San Ge Ronimo, Central America.

863. And JOSEPH ROGERS, of No. 9, Queen Square, Bartholomew Close, city of London, Rope Maker, and EDWARD JOHNSON TWEED, of No. 22, Castle Street, Falcon Square, also in the city of London, have given the like notice in respect of the invention of "Improvements in coating conducting wires used for electric telegraphic purposes."

As set forth in their respective petitions, both recorded in the said office on the 6th day of April, 1859.

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871. And JOHN GARRETT, of Arundel Place, Haymarket, in the county of Middlesex, Tinman, has given the like notice in respect of the invention of "Improvements in the construction of goblets jugs, and other like articles."

872. And JAMES RAWLINGS, of Carlton Hill East, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improved construction of boot tree."

As set forth in their respective petitions, both recorded in the said office on the 7th day of April, 1859.

873. And JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, has given the like notice in respect of the invention of "Improvement in the construction and use of fire works for signals."—A communication from abroad by Martha J. Coston, of the city of Washington, D. C., in the United States of America.

878. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved articulated joint for water, gas, and steam pipes."—A communication from Victor Doré, a person resident in Paris, France.

879. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "Improvements in the treatment of mineral phosphates of lime."—A communication from B. de Siebenthal, a person residing in Paris.

As set forth in their respective petitions, all recorded in the said office on the 8th day of April, 1859.

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890. And JOHN HAWKINS, of Lisle Street, London, in the county of Middlesex, and of Walsall, in the county of Stafford, Bit, Spur, and Stirrup Manufacturer, has given the like notice in respect of the invention of "Certain improvements in the manufacture of stirrups, bits, spurs, buckles, and other such like articles, connected with harness and saddlery."

As set forth in his petition, recorded in the said office on the 9th day of April, 1859.

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912. And PATRICK AITCHISON, Brass Founder, of Sheffield, in the county of York, has given the like notice in respect of the invention of "Improvements in taps."

918. And MATHIEU CASTAY, of Paris, in the empire of France, Clergyman, has given the like notice in respect of the invention of "Improvements in metallic bridges."

As set forth in their respective petitions, both recorded in the said office on the 12th day of April, 1859.

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933. And JOHN HUGHES, WILLIAM WILLIAMS, and GEORGE LEYSHON, of Brockmoor Works, Brierley Hill, Staffordshire, have given the like notice in respect of the invention of "Improvements in the manufacture of tin and terne plates."

As set forth in their petition, recorded in the said office on the 13th day of April, 1859.

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982. And WILLIAM PARSONS, of Pont ar Tawe, near Swansea, in the county of Glamorgan, Tin Plate Manufacturer, has given the like notice in respect of the invention of "Improvements in preparing sheet iron and other metal sheets for japanners and other uses."

As set forth in his petition, recorded in the said office on the 18th day of April, 1859.

1010. And THOMAS SEAVILLE TRUSS, of Darlington, in the county of Durham, Civil Engineer, has

given the like notice in respect of the invention of "Improvements in the construction of pipes, and in the mode of joining the same."
As set forth in his petition, recorded in the said office on the 21st day of April, 1859.

1028. And WILLIAM STEVENSON, of Johnstone, in the county of Renfrew, North Britain, Manager to George Houstoun and Company, has given the like notice in respect of the invention of "Improvements in spinning, doubling, and manufacturing cotton and other fibrous materials."

1038. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in sewing machines."—A communication from abroad by Robert Halstead Morford and Anthony Denton Morford, of New York.
As set forth in their respective petitions, both recorded in the said office on the 25th day of April, 1859.

1084. And JOHN DARLINGTON, of No. 36, Cannon Street, in the city of London, county of Middlesex, Mining Engineer, has given the like notice in respect of the invention of "Improvements in zinc retort furnaces."
As set forth in his petition, recorded in the said office on the 30th day of April, 1859.

1120. And JACOB GEOGHEGAN WILLANS, of 2, Clarence Place, Belfast, has given the like notice in respect of the invention of "Improvements in utilizing bog stuff or peat when applied for treating metals and certain mineral and alkaline substances."
As set forth in his petition, recorded in the said office on the 4th day of May, 1859.

1162. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved construction of lamp."—A communication from abroad by William Henry Racey, of St. Augustine, St. John's county, state of Florida, in the United States of America.
As set forth in his petition, recorded in the said office on the 9th day of May, 1859.

1180. And THOMAS PETER BENNETT, of Gilnow Mills, near Bolton-le-Moors, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Certain improvements in, or applicable to, carding engines."
As set forth in his petition, recorded in the said office on the 11th day of May, 1859.

1297. And CHARLES EDWARDS AMOS, of the Grove, in the borough of Southwark, Engineer, has given the like notice in respect of the invention of "Improved apparatus for raising vessels for repair, and for floating vessels in shallow water."
As set forth in his petition, recorded in the said office on the 25th day of May, 1859.

1308. And JAMES CORN BENT, of Birmingham, in the county of Warwick, Gas Meter Manufacturer, has given the like notice in respect of the invention of "Improvements in gas-meters."
As set forth in his petition, recorded in the said office on the 26th day of May, 1859.

1313. And PATRICK AITCHISON, Brass Founder, and THOMAS BINKS, Plumber, both of Sheffield, in the county of York, have given the like notice in respect of the invention of "Improvements in self-acting and other water-closets, and in flushing apparatus connected therewith."
As set forth in their petition, recorded in the said office on the 27th day of May, 1859.

1538. And GEORGE DAWES, of Milton Iron Works, in the parish of Hoyland, in the county of York, Ironmaster, and CHARLES JOHN CARR, of Hoyland, aforesaid, Engineer, have given the like notice in respect of the invention of "Certain improvements in atmospheric and vacuum hammers and stamps, part of which improvements is also applicable to steam and other engines."
As set forth in their petition, recorded in the said office on the 28th day of June, 1859.

1648. And JAMES DIBLE, of Northam, in the county of Hants, Shipwright, and WILLIAM HENRY GRAVELEY, of Upper East Smithfield, in the county of Middlesex, Engineer, have given the like notice in respect of the invention of "Improvements in apparatuses for ventilating and lighting ships."
As set forth in their petition, recorded in the said office on the 11th day of July, 1859.

1668. And JOSEPH MORGAN, of Manchester, has given the like notice in respect of the invention of "Improvements in apparatus for making candles."
As set forth in his petition, recorded in the said office on the 14th day of July, 1859.

1724. And JAMES BROADLEY, of Saltaire, in the county of York, Overlooker to Messrs. Titus, Salt, Sons, and Co., of the same place, Spinners and Manufacturers, has given the like notice in respect of the invention of "Improvements in means or apparatus used in weaving."
As set forth in his petition, recorded in the said Office on the 23rd day of July, 1859.

1727. And HENRY AMBLER, of Halifax, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in explosive projectiles."
As set forth in his petition, recorded in the said office on the 25th day of July, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

9th August, 1859.

386. HENRY BRUCE, of Kinleith Mill, Currie, in the county of Mid Lothian, North Britain, Paper Manufacturer, for an invention of "Improvements in apparatus for the manufacture of paper."—Dated 11th February, 1859.

399. THOMAS WHITE, of Portsmouth, in the county of Southampton, Shipbuilder, and GEORGE JENKINS, of the same place, Engineer, for an invention of "Improvements in apparatus for raising and lowering ships along inclined slips."—Dated 12th February, 1859.

400. JAMES BENNETT and JOHN BENNETT, of the firm of Bennett and Sons, of Kingsland Road, in the county of Middlesex, Engineers, for an "Improvement in refrigerators for cooling beer and worts."—Dated 12th February, 1859.

401. GEORGE BETJEMANN, GEORGE WILLIAM BETJEMANN, and JOHN BETJEMANN, all of Upper Ashby Street, in the county of Middlesex, Desk and Dressing Case Makers, for an invention of "Improvements in book slides."—Dated 12th February, 1859.

405. ROBERT BELL, of Paris, in the empire of France, and of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for an invention of "Improvements in separating and recovering wool from fabrics, composed of wool or wool in connection with cotton and other vegetable substances."—Dated 12th February, 1859.

411. JOHN WRIGHT, of New George Street, Sheffield, in the county of York, Spring Manufacturer, for an invention of "Improvements in reducing and rolling steel and iron wire, and other forms of those metals in long lengths."—Dated 14th February, 1859.

500. ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "A new metallic compound or alloy."—Dated 24th February, 1859.

501. ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement in the manufacture of cast steel."—Dated 24th February, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 6th August*, 1859, *inclusive.*)

4th August.

1848. JOHN KEITH, of Eltham, in the county of Kent, Gentleman, for an invention of "Improved machinery for making envelopes."—A communication from the first and true inventor.—Dated 5th August, 1856.

5th August.

1876. THOMAS WHITTAKER, of Accrington, in the county of Lancaster, Millwright, for an invention of "Improvements in the mode or method of washing or cleansing woven fabrics."—Dated 9th August, 1856.

6th August.

1885. JOHN CARTLAND, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "A new or improved door spring."—Dated 11th August, 1856.

1913. WILLIAM TRANTER, of Birmingham, in the county of Warwick, Gun Maker, for an invention of "Improvements in fire-arms."—Dated 16th August, 1856.

1939. JOSEPH BROUARD and JOSEPH HUBERT, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London, for an invention of "Certain improvements in reefing the sails of ships or vessels."—Dated 19th August, 1856.

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3003	10*d.*	Punching machines.
3004	3*d.*	Apparatus for tightening and releasing the bellybands of riding saddles.
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		1859.
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22	7*d.*	Apparatus for subduing restive horses.
23	6*d.*	Propelling vessels.
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25	6*d.*	Machines for preparing cotton, &c.
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SOMMAIRE de toutes les INVENTIONS BREVETÉES en ANGLETERRE depuis 1617 jusqu'en 1854 inclusivement, arrangées d'après le plus grand nombre de rubriques, avec renvois aux INVENTIONS et DÉCOUVERTES décrites dans les ouvrages scientifiques de DIFFÉRENTES NATIONS, classés par le Professeur Schubarth. Par B. Woodcroft.

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B. WOODCROFT,
Superintendent of Specifications, &c.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by BENNET WOODCROFT, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By SIMON STURTEVANT. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By JOHN ROVINSON (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether NICHOLAS PAGE or Sir NICHOLAS HALSE was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated 8th April*, 1626, *and 23rd July*, 1635.) Price 2*d.*
4. DUD DUDLEY'S Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated 22nd February*, 1620, *and 2nd May*, 1638.) Price 8*d.*
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6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) EDWARD SOMERSET. Lord Marquis of WORCESTER, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By THOMAS SAVERY. (*Letters Patent, No.* 347, *dated 10th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By THOMAS SAVERY. (*Letters Patent, No.* 356, *dated 25th July*, 1698, *and Stat.* 10 & 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By JOHN ALLEN, M.D. (*Letters Patent, No.* 513, *dated 7th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By JONATHAN HULLS. (*Letters Patent, No.* 556, *dated 21st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By SAMUEL SUTTON, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated 16th March*, 1744.) Price 1*s.*

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. CURTIS for a Patent. Price 1*s.*

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NUMBER of VISITORS for the Week ending 6th August, 1859.

Mornings - - - -	1261
Evenings - - - -	1180
Total - - -	2441

Since the opening of the Museum Free Daily (May 12, 1858,)—124,500.

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Great Seal Patent Office,
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STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 585. FRIDAY, AUGUST 12, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1507. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "Improvements in machinery for the manufacture of bolts and rivets."—A communication from J. L. Vergniais, residing in Paris.

On his petition, recorded in the Office of the Commissioners on the 23rd day of June, 1859.

1682. To JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for the invention of "Certain improvements in the manufacture of boots and shoes, and in the machinery and apparatus to be employed therein."

1686. And to O'DONNELL GRIMSHAW, of Belfast, in the kingdom of Ireland, Pastmaster, for the invention of "Improvements in safety letter boxes or bags."

On both their petitions, recorded in the Office of the Commissioners on the 16th day of July, 1859.

1706. To WILLIAM JAMES GRADWELL, of Manchester, in the county of Lancaster, Mechanic, and DAVID GRADWELL, of the same place, Maker-up and Packer, for the invention of "Certain improvements in bearings or journals employed in machinery, which improvements are also applicable to the bearings of railway and other wheels and axles."

On their petition, recorded in the Office of the Commissioners on the 20th day of July, 1859.

1714. To CHARLES TAPP and JAMES BRYANT TAPP, of Chesterfield, Derbyshire, Engineers, for the invention of "Improvements applicable to steam boilers and furnaces for consuming smoke and economizing fuel in the generation of steam, and in the apparatus connected therewith."

On their petition, recorded in the Office of the Commissioners on the 21st day of July, 1859.

1734. To WILLIAM HENRY BUCKLAND, of Maesteg Iron Works, in the county of Glamorgan, Iron Master, for the invention of "An improved preparation of peat."

1736. To PHILO D. MICKLES, of Syracuse, State of New York, United States of America, for the invention of "An improved spring for railroad and other carriages, and for othes uses and applications where springs are required."—A communication from Danforth Johnson, a person resident at Chicago, state of Illinois, U.S.A.

1737. To JOHN HINKS and GEORGE WELLS, of Birmingham, in the county of Warwick, Manufacturers and copartners, for the invention of "An improvement in, or a substitute for, the hook of the ordinary hook and eye dress fastening."

1738. And to JOSEPH GILLOTT, of Birmingham, in the county of Warwick, Manufacturer, and JOHN MORRISON, of Birmingham aforesaid, Machinist, for the invention of "New or improved machinery for the manufacture of the handles of penholders, which machinery or a part or parts thereof may also be employed for manufacturing other cylindrical articles."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of July, 1859.

1740. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "An improved comb-cleaner."—A communication from Hippolyte Gaudibert, a person residing in Paris.

1742. To JOHN DAVIES, of Tetbury, in the county of Gloucester, Machinist, for the invention of "A new or improved self-adjusting ventilating apparatus."

1744. And to JOHN SCOFFERN, of 4, Barnard's Inn, in the county of Middlesex, Bachelor of Medicine, for the invention of "Improvements in waterproofing, cementing, and stiffening fabrics and fibrous materials, and also in dyeing fabrics and fibrous materials."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of July, 1859.

1746. To WILLIAM HUDSON, of Burnley, in the county of Lancaster, Machinist, and CHRISTOPHER CATLOW, of the same place, Overlooker, for the invention of "Certain improvements in looms for weaving."

1747. To EDWARD HUNT and HENRY DAVIS POCHIN, both of Salford, in the county of Lancaster, Chemists, for the invention of "Improved resin and resinous substances."

1748. To ALFRED SIDEBOTTOM, of Crown Street, Camberwell, in the county of Surrey, Consulting Chemist, for the invention of "Improvements in the mode or process of separating animal fibre from mixed fabrics of animal fibre and cotton or other vegetable fibre."

1749. To CHARLES WESTLEY SMITH, of the town of Evans, county of Erie, and state of New York, Electrician, for the invention of "Improvements in electric telegraphs, and in the apparatus connected therewith."

1750. To WILLIAM KENT, of Paternoster Row, in the city of London, for the invention of "A self-acting fan."

1751. To JOHN WEIR DRAPER BROWN, of Lewisham, in the county of Kent, Surgeon, for the invention of "Improvements in signal and lighthouse lamps and lanterns."

1753. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in grinding mills."—A communication from abroad by Joseph Cornelius Lyons and James Schenck Wyckoff, of Sennet, county of Cayuga, and state of New York, in the United States of America.

1754. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improved apparatus for turning over music leaves or sheets."—A communication from abroad by Hermine Madeleine Basset, of Boulevart St. Martin, Paris, in the empire of France.

1755. To JOHN JACKSON, of Church Street, Spitalfields, in the county of Middlesex, Pen Manufacturer for the invention of "Improvement in metal pens."

1756. And to PATRICK ROBERTSON, of Sun Court, Cornhill, in the city of London, for the invention of "Improvements in the manufacture of beer, ale, porter, and spirits."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of July, 1859.

1757. To THOMAS CULPIN, of No. 25, Royall Hill, Greenwich, in the county of Kent, Engineer, for the invention of "Improvements in water-closets, water-cisterns, urinals, baths, lavatories, and other sanitary apparatus, and in the mode of supplying water thereto."

1758. To ISAAC MARTIN LINDLEY, of Staley Bridge, in the county of Chester, Currier and Leather Merchant, for the invention of "Improvements in cop-tubes."

1759. To JAMES WRIGHT, of No. 42, Bridge Street, Blackfriars, city of London, Civil Engineer, for the invention of "An improved method of raising or drawing up the skirts of gowns or dresses."—A communication from abroad, by M. Bresson, of Paris, in the French empire, Civil Engineer."

1761. To POLYNICE AUGUSTE VIETTE, of No. 25, Faubourg de Shaerbeck, near Brussels, a Major in the Service of His Majesty the King of the Belgians, for the invention of "Improvements in engraving on metal or on other substances decomposable by acids or corrosive salts."

1762. To JAMES CHANDLER, of Deptford, in the county of Kent, Engineer, for the invention of "Improvements in apparatuses for indicating the water level in boilers, and other vessels, parts of which are also applicable for inspecting the interior thereof."

1763. To THOMAS JOSEPH TERRELL, of Poplar, in the county of Middlesex, Shipwright, for the invention of "An improvement in ships, riding bits, and timber heads."

1764. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Certain improvements in that class of fire arms known as revolvers, and in bullets for the same."—A communication from abroad by John Walch, of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 29th day of July, 1859.

1765. To JOSEPH WOOD, of York City, Surgical Instrument Maker, for the invention of "An improved truss for hernia."

1767. To GOLDSWORTHY GURNEY, of Woodleigh, Cornwall, Esq., for the invention of "Improvements in electric telegraphic conductors."

1769. To THOMAS FIRTH, of Sheffield, in the county of York, Iron and Steel Manufacturer, for the invention of "An improved breech-loading cannon."

1771. To ARTHUR BUSHBY WILSON, of Cockermouth, in the county of Cumberland, Hat Manufacturer, for the invention of "Improvements in the manufacture of hats."

1773. And to PERCEVAL MOSES PARSONS, of Arthur Street, West, London Bridge, for the invention of "Improvements in switches and crossings of railways."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of July, 1859.

1775. To JOHN MOLLADY, of Manchester, in the county of Lancaster, Hat Manufacturer, for the invention of "An improved form or construction of hat, cap, or covering for the head."

1777. To Thomas Goode Messenger, of High Street, Loughborough, in the county of Leicester, Horticultural Builder and Plumber, for the invention of "Improvements in the construction of buildings or erections to be used for horticultural or other purposes."

1779. To James Rowland, of Salisbury, for the invention of "An improved apparatus for mashing and mixing."

1781. And to William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement applicable to salinometer cases for steam boilers."—A communication from abroad by Joseph Grice, of New York City, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 1st day of August, 1859.

1783. To James Charles Ashwell, of Dorchester Street, New North Road, in the county of Middlesex, for the invention of "Improvements in wheels for railway and other carriages."

1785. And to Henry Olorenshaw, of the firm of Herbert and Olorenshaw, of Coventry, in the of Warwick, Manufacturers, for the invention of "An improvement in neck-ties."

On both their petitions, recorded in the Office of the Commissioners on the 2nd day of August, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given, that the petition of

1840. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, praying for Letters Patent for the invention of "A new and useful method of manufacturing the vulcanized compounds of vulcanizable gums,"—a communication from abroad by John Murphy, of the city, county, and state of New York,—was deposited and recorded in the Office of the Commissioners on the 9th day of August, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

12*th August*, 1859.

408. James Parkinson, of Manchester, in the county of Lancaster, Dentist, for an invention of "Certain improvements in coffins."—Dated 14th February, 1859.

410. Charles Sanders, Photographic Mat Manufacturer of Harford Street, Birmingham, in the county of Warwick, for an invention of "Certain improvements in ornamenting English passe-partouts for photographic pictures, also the glasses used with the same; and which said modes of ornamenting are also applicable to ornamenting photographic frames generally."—Dated 14th February, 1859.

414. Robert Clegg, of Islington, in the county of Middlesex, Frederick Angerstein, of Kennington, in the county of Surrey, and John William Page, of Walworth Road, in the county of Surrey, for an invention of "Improvements in making soap."—Dated 14th February, 1859.

420. Walter Raymond, of No. 4, Albion Square, Dalston, in the county of Middlesex, Master Mariner, for an invention of "An improved life-raft."—Dated 15th February, 1859.

421. John Paterson, of Wood Street, in the city of London, Manufacturer, for an invention of "Improvements in brace buckles and loops and in braces."—Dated 15th February, 1859.

423. George Bedson, of Manchester, in the county of Lancaster, Manager for Messrs. Richard Johnson and Brother, Wire Manufacturers, for an invention of "Improvements in joining wire for telegraphic and other purposes."—Dated 15th February, 1859.

426. Samuel Bailey, Mining Engineer, of Wednesbury, in the county of Stafford, for an invention of "Certain apparatus for preventing the skip in mine operations being pulled over the pulley on which the rope or chain works, to which such skip or cage may be attached, as well as preventing the skip or cage re-descending until put in motion for that purpose."—Dated 16th February, 1859.

428. Charles Edward Wright, of Nottingham, Commercial Traveller, for an invention of "Improvements in means or apparatus employed in the nursing or treatment of infants."—Dated 16th February, 1859.

446. Thomas Cattell, of 30, Euston Square, in the county of Middlesex, M.D., for an invention of "Improvements in treating and purifying gutta percha."—Dated 17th February, 1859.

447. Frederick William Emerson, of New Charlton, in the county of Kent, Mining Engineer and Metallurgical Chemist, for an invention of "Improvements in the treatment of certain ores of lead, and obtaining from them valuable primary and secondary products."—Dated 17th February, 1859.

448. Charles Fay, of Manchester, in the county of Lancaster, Railway Carriage Builder, for an invention of "Improvements in apparatus for working railway breaks."—Dated 17th February, 1859.

461. William Clay, of Liverpool, in the county of Lancaster, Iron and Steel Manufacturer, for an invention of "Improvements in the manufacture of deck and other beams, and of angular and other bars of various forms."—Dated 19th February, 1859.

462. William Basford, of Burslem, in the county of Stafford, Brick and Tile Manufacturer, for an invention of "Improvements in the method of and means for drying bricks and tiles preparatory to their being burnt, and also in the construction of kilns or ovens for burning such bricks, tiles, pipes, pottery, or earthenware, and in the mode of charging or placing these said articles therein to be burnt or fired, and also in certain appliances for regulating the heat therein."—Dated 19th February, 1859.

464. Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an

invention of "An improved apparatus for manufacturing the strands of wire-ropes."—A communication from Jean Baptiste Pieux-Aubert, residing at Clermont Ferrand (Puy-de-Dôme), in the empire of France.—Dated 19th February, 1859.

467. Ferdinand Pierre Jean Van den Ouwelant, of Paris, France, Gentleman, for an invention of "Improvements in apparatuses to be applied to fire-places for obtaining a more complete combustion of the fuel employed therein."—Dated 19th February, 1859.

469. Obed Blake, of Blackwall, in the county of Middlesex, for an invention of "Improved machinery or apparatus used in the manufacture of glass."—Dated 21st February, 1859.

471. Thomas Wilson, of Birmingham, in the county of Warwick, Engineer, for an invention of "Improvements in the manufacture and construction of ordnance."—Dated 21st February, 1859.

475. Robert Jobson, of Wordsley, in the county of Stafford, Iron Founder, for an invention of "Improvements in supplying water or other fluid to axletree boxes and other journal bearings to lubricate the same."—Dated 21st February, 1859.

477. Richard William Johnson, of Oldbury, in the county of Worcester, Railway Carriage Builder, and William Stableford, of the same place, Manager, for an invention of "Improvements in axle boxes."—Dated 21st February, 1859.

490. Samuel Ridge, of Hyde, in the county of Chester, Millwright, for an invention of "Improvements in coupling or making the joints of pipes and other articles."—Dated 23rd February, 1859.

507. Enock Price, of Doncaster, in the county of York, Railway Contractor, and Edmund Hawkins, of the same place, Builder and Contractor, for an invention of "Improvements in the mode of forming fishplates, and in the method of fixing or attaching them to the joints of rails on railways."—Dated 24th February, 1859.

514. Robert Fielden, junr., of Walsden, in the county of Lancaster, Picker Manufacturer, and Thomas Fielden, of the same place, also Picker Manufacturer, for an invention of "An improvement or improvements in the manufacture of pickers to be used in looms for weaving and also in the machinery or apparatus to be employed in the manufacture of the same."—Dated 25th February, 1859.

520. James Lee, of Saint Helen's, in the county of Lancaster, Grocer, for an invention of "Certain improvements in ploughs."—Dated 26th February, 1859.

528. George Horner, of Falls Road, Belfast, in the county of Antrim, Ireland, Machinist, for an invention of "Improvements in hackling flax and other fibrous materials and in machinery for the same."—Dated 28th February, 1859.

539. The Reverend Henry Moule, Clerk, Master of Arts, of Fordington, in the county of Dorset, for an invention of "Improvements in apparatus applicable to the evaporation of sewage or other waters and for affording heat for other uses."—Dated 1st March, 1859.

547. Peter Currie, General Brassfounder, of Birmingham, in the county of Warwick, for an invention of "Certain improvements in spindles for locks, latches, and other door fastenings."—Dated 2nd March, 1859.

557. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the construction of grease boxes and bearings generally."—A communication from Joseph Vallot, residing at Paris, in the empire of France, Engineer.—Dated 2nd March, 1859.

584. William Peacock Savage, of Roxham, Downham Market, in the county of Norfolk, for an invention of "An improved machine for excavating, raising, and depositing soil."—Dated 5th March, 1859.

585. François Verdeil, Medical Doctor, of No. 30, Rue St. Sulpice, in the city of Paris, and Edmond Michel, Chemist, of No. 4, Quai Imperial, Puteaux, Seine, for an invention of "Improvements in treating madder."—Dated 5th March, 1859.

604. Charles Mills, of High Street, Camden Town, for an invention of "Improvements in the action of pianofortes."—Dated 8th March, 1859.

665. Joseph Michel-Denys, of Charleroi, in the kingdom of Belgium, Gentleman, and 4, South Street, Finsbury, London, for an invention of "Certain improvements in the construction of railway crossings."—Dated 16th March, 1859.

704. William and Samuel Pickstone, of Radcliff Bridge, near Manchester, Cotton Spinners, Manufacturers, and Dyers, for an invention of "An improvement in stiffening, sizing, filling, or weighting textile fabrics."—Dated 19th March, 1859.

739. John Evans, of Nash Mills, in the parish of King's Langley, in the county of Hertford, Paper Maker, for an invention of "Improvements in the manufacture of paper."—Dated 23rd March, 1859.

768. Matthew Andrew Muir, of Glasgow, in the county of Lanark, North Britain, Machinist, and James McIlwham, of the same place, Machinist, for an invention of "Improvements in moulding or shaping metals."—Dated 26th March, 1859.

811. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in mills for cleaning rice."—A communication from abroad by Peter McKinley, of Charleston, in the United States of America.—Dated 31st March, 1859.

867. Robert Postlethwaite, of Liverpool, in the county of Lancaster, Saddler, for an invention of "An improvement in harness pads for horses."—Dated 7th April, 1859.

896. Henry Francis Gardner, of Boston, in the United States of America, for an invention of "Improvements in machinery for blocking or crimping the uppers of boots and shoes, and in treeing boots."—Partly a communication from abroad by William Willmott and Philander Shaw, of the United States of America.—Dated 9th April, 1859.

908. William Henry Barlow, of Great George Street, Westminster, for an invention of "Improvements in beams and girders."—Dated 11th April, 1859.

1033. Thomas Aldridge Weston, of King's Norton, in the county of Worcester, Accountant, for an invention of "A new or improved pulley."—Dated 25th April, 1859.

1098. James Childs, of Windsor House, Putney, in the county of Surrey, for an invention of "Improvements in the manufacture of night light cases."—Dated 2nd May, 1859.

1124. John Scholfield, of Milnrow, near Rochdale, in the county of Lancaster, Cotton Spinner, and William Cudworth, of the same place, Manager, for an invention of "Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials."—Dated 5th May, 1859.

1194. William Warne, John Americus Fanshawe, James Archibald Jaques, and Thomas Galpin, all of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for an invention of "An improved compound or preparation of materials for, and mode of and apparatus for, covering and insulating wires or conductors used for telegraphic or electrical purposes."—Dated 12th May, 1859.

1249. George Robinson Sampson, of the State of Massachusetts, of the United States of America, for an invention of "A new and useful improvement in propelling navigable vessels through water."—A communication from John Taggart, a resident of Roxbury, of the State of Massachusetts, of the United States of America.—Dated 20th May, 1859.

1258. Thomas Stokes Cressey, of Burton-upon-Trent, for an invention of "Improvements in machinery for cutting staves for casks."—Dated 21st May, 1859.

1265. John Hutchinson Mason, of the town and county of the town of Nottingham, Lace Manufacturer, and George Lee Baxter, also of the said town and county of the town of Nottingham, Dyer, for an invention of "Ornamenting lace or other twisted fabrics."—Dated 23rd May, 1859.

1272. Nathaniel Shattswell Dodge, of 44, St. Paul's Church Yard, in the city of London, Merchant and Manufacturer, for an invention of "Improvements in treating waste vulcanized india rubber."—A communication from abroad by Hiram Lyman Hall, of Beverley, Massachusetts, United States of America.—Dated 23rd May, 1859.

1274. Nathaniel Shattswell Dodge, of 44, St. Paul's Church Yard, in the city of London, Merchant and Manufacturer, for an invention of "Improvements in finishing, coloring, and varnishing india-rubber goods and similar manufactures."—A communication from abroad by Hiram Lyman Hall, of Beverley, Massachusetts, United States of America.—Dated 23rd May, 1859.

1286. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved apparatus for the preparation of sand moulds for metal casting."—A communication from Messieurs Mandoy and Couty, residing in Paris.—Dated 24th May, 1859.

1299. Joseph Reynolds, of No. 11, Carthusian Street, Charterhouse Square, London, Gentleman, for an invention of "Improvements in propelling vessels."—Dated 26th May, 1859.

1302. John Young, of Wolverhampton, in the county of Stafford, Manufacturer, for an invention of "Improvements in locks, and in the manufacture of knobs for locks and latches, and also in apparatus for preventing draughts and keeping out wet from doors and windows."—Dated 26th May, 1859.

1375. Edward Gill, of The Elms, Saint Ann's Road, Wandsworth Common, in the county of Surrey, Distiller, for an invention of "Improvements in producing spirit from rice, maize, and other descriptions of grain."—Dated 4th June, 1859.

1400. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in gas meters."—A communication from abroad by William Richards, of Barcelona, in the kingdom of Spain.—Dated 8th June, 1859.

1415. Jabez James, of Broad Wall, Lambeth, in the county of Surrey, Engineer, for an invention of "Improvements in obtaining and applying motive power."—Dated 11th June, 1859.

1448. Charles Wilkinson, of Slaithwaite, in the county of York, Merchant, for an invention of "Improvements in doubling or twisting silk, cotton, worsted, linen, or woollen yarns, or yarns from any other fibrous substance."—Dated 16th June, 1859.

1453. Edward Adams Cutler, of the state of Connecticut, of the United States of America, for an invention of "A new and useful machine for making horse shoes."—A communication from Charles H. Perkins, a resident of Putney, of the said state of Connecticut.—Dated 16th June, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 8th August*, 1859.)

1881. Archibald Lockhart Reid, of Glasgow, in the county of Lanark, North Britain, Print Cutter, for an invention of "Improvements in producing ornamental figures or devices on textile fabrics and other surfaces."—Dated 9th August, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 21st July, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 576 of this Journal.)

7624. M. Lebeau, of Dampremy, for "An apparatus for bringing glass cylinders into glass furnaces."—Dated 8th June, 1859.

7625. R. Janssens-Durieux, of Templeuve, for "A regulator coffee-mill without friction."—Dated 8th June, 1859.

7627. J. B. Banck, of Lacken, for "A cast-iron dome applicable to flat roofs."—Dated 7th June, 1859.

7635. D. Hubert, of Brussels, for a Patent of Improvement of "A machine with a perpetual movement."—Dated 9th June, 1859.—(Original Patent, 19th May, 1859.)

7707. Follet, Brothers, of Hodimont, for "Manufacture of woollen fabrics with silk warps."—Dated 28th June, 1859.

7708. J. H. Johnson, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of boots, shoes and other foot coverings."—Dated 30th June, 1859.—(French Patent, 28th June, 1859.)

7709. F. A. Testud de Beauregard, represented by H. Biebuyck, of Brussels, for an imported invention of "A spheroidal steam-generator."—Dated 1st July, 1859.—(English Patent, 11th June, 1859.)

7710. J. B. Fourmeaux, of Ghent, for "A loom for weaving two pieces at the same time."—Dated 30th June, 1859.

7711. P. de Vlieger, of Ghent, for "A churn."—Dated 1st July, 1859.

7712. H. Sadin, of Mons, for "Using a porcelain or biscuit plate for stretching window glass."—Dated 2nd July, 1859.

7713. V. Delperdange, of Schaerbeek, for "Lamps with upper reservoirs."—Dated 2nd July, 1859.

7714. L. Doneux, of Hodimont, for "A machine for sharpening spindles of spinning frames and ram rods."—Dated 4th July, 1859.

7715. J. C. Reid and W. Milner, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in the construction of ships and vessels."—Dated 4th July, 1859.—(English Patent, 20th January, 1859.

7716. G. Gregg, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in currying leather."—Dated 4th July, 1859.—(English Patent, 21st March, 1859.)

7717. E. Pérignon, represented by X. Raclot, of Brussels, for a Patent of Improvement of "A system of steam boilers."—Dated 5th July, 1859.—(Original Patent, 15th October, 1857.)

7718. J. B. Fondu, of Lodelin, for "A double action machine for conglomerating fuel."—Dated 6th July, 1859.

7719. J. J. Adam, of Hodimont, for "A perpetual rotary motion for clocks."—Dated 6th July, 1859.

7720. J. N. Andrien, of Liége, for a Patent of Improvement of "Smoke preventing apparatus for chimneys."—Dated 4th July, 1859.—(Original Patent, 15th April, 1859.)

7721. J. Simon, of Schaerbeek, for an imported invention of "A composition called 'Zeiodelite.'"—Dated 6th July, 1859.—(French Patent, 21st June, 1859.)

7723. J. B. J. Constant, represented by B. Verlinde, of Brussels, for a Patent of Improvement for "An instantaneous break applicable to all vehicles."—Dated 6th July, 1859.—(Original Patent, 8th April, 1856.)

7724. S. Léoni, represented by A. Crooy, of Brussels, a Patent of Improvement for "Manufacture of certain ceramic products."—Dated 6th July, 1859.—(Original Patent, 17th March, 1859.)

7726. J. Kerr, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in revolvers."—Dated 6th July, 1859.—(English Patent, 17th December, 1858.)

7727. Ph. Vander Haegen, of Brussels, for "Making paper from saw dust."—Dated 6th July, 1859.

7729. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "A metallic alloy."—Dated 7th July, 1859.—(English Patent, 12th January, 1859.)

7732. Jolibois, née T. Poulain, represented by H. Biebuyck, of Brussels, for a Patent of Improvement of "A cooling apparatus for breweries."—Dated 9th July, 1859.—(Original Patent, 11th January, 1859.)

7735. P. Vandevoorde, of Lokeren, a Patent of Improvement of "Metrical measures."—Dated 9th July, 1859.—(Original Patent, 5th April, 1859.)

7736. M. Schimmelbusch, of Liége, for "Improvements in the manufacture of puddled steel."—Dated 9th July, 1859.

7737. G. Schopen, of Liége, for "A system of double-breech loading guns with a safety-needle."—Dated 21st July, 1859.

7738. M. Schimmelbusch, of Liége, for "Improvements in the manufacture of cast iron and

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

copper by using wolfram thereat."—Dated 13th July, 1859.

7739. Ad. Marteaux and A. Robert, of Lodelinsart, for "A process for obtaining mastic for joining steam pipes, cylinders, &c."—Dated 11th July, 1859.

7740. J. B. Verken, of Verviers, for "A machine for beating and carding wool."—Dated 12th July, 1859.

7741. Ch. Van Lancker, represented by Alb. Allard, for "A system of alarum clock."—Dated 11th July, 1859.

7742. Ed. Gwyn, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in fire-arms."—Dated 11th July, 1859.—(English Patent, 21st June, 1859.)

7743. W. Sellers, represented by A. Anoul, of Ixelles, for an imported invention of "An improved system of ovens for baking bread or other alimentary substances."—Dated 11th July, 1859.—(English Patent, 10th June, 1859.)

7744. Ed. Dorsett, represented by R. Culliford, of Brussels, for an imported invention of "Improvements in distilling oil of tar, and in apparatus employed for preserving timber."—Dated 11th July, 1859.—(French Patent, 23rd February, 1859.)

7745. J. B. Vangindertaelen, of Brussels, for a Patent of Improvement of "A system of force and lift pumps for acid liquids."—Dated 12th July, 1859.—(Original Patent, 6th August, 1857.)

7746. R. Mushet, represented by R. Culliford, of Brussels, for an imported invention of "Improvements in the manufacture of cast steel."—Dated 11th July, 1859.—(English Patent, 15th January, 1859.)

7747. A. C. d'Yochet, represented by X. Raclot, of Brussels, for "Apparatus for sounding and boring."—Dated 12th July, 1859.

7748. G. Smith, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in fire-arms."—Dated 12th July, 1859.—(English Patent, 27th June, 1859.)

7749. P. Lemaire, represented by X. Raclot, of Brussels, for "A moderator fire-place for heating apartments."—Dated 13th July, 1859.—(French Patent, 20th July, 1858.)

7750. J. Poulet and J. Ringo, of Liége, for "A process for conglomerating granular metal ores."—Dated 13th July, 1859.

7751. E. J. J. de Schoenowsky, of Malines, for "An electro-telegraphic printing apparatus."—Dated 15th July, 1859.

List of Patents Delivered on the 4th August, 1859.

7041. A. J. Masure, of Buissenal, for "A machine for sowing all kinds of seeds."—Dated 25th January, 1859.

7387. Ph. Fromont, of Châtelineau, for "A ventilator with conical surfaces for mines and blast engines."—Dated 12th April, 1859.

7505. J. Frey, represented by L. Barbe, of Liége, for an imported invention of "A system of fastening with or without keys."—Dated 4th July, 1859.—(French Patent, 24th December, 1858.)

7549. M. Lejeune, of Liége, a Patent of Improvement for "A double slide and lever gun."—Dated 16th July, 1859,—(Original Patent, 17th November, 1857.)

7592. L. Semet, represented by H. Biebuyck, of Brussels, for "A brick machine."—Dated 25th July, 1859.

7728. Mrs. Clenet, of Liége, for "A bag-pipe with a sanitary plate."—Dated 7th July, 1859.

7731. J. J. Bosson, of Verviers, for "A gig with a single doffer."—Dated 9th July, 1859.

7752. L. Giordano, of Brussels, for "A perpetual motor."—Dated 14th July, 1859.

7753. A. Malherbe, of Mons, for "Improvements in double lever guns according to Lefaucheux' system."—Dated 14th July, 1859.

7754. C. J. Proal, represented by D. de Vos-Verraert, of Brussels, for "Using oil-cloth, percaline, nanzonk, and other photographic tissues for making blotting-books, pocket-books, &c."—Dated 14th July, 1859.

7755. E. Smits, of Couillet, for "A system of vertical press with a direct action for shingling blooms in the manufacture of iron."—Dated 16th July, 1859.

7756. Ed. Vermeirre, of Ghent, for "Improvements in cards of cotton-mills."—Dated 12th July, 1859.

7757. C. Toen, of Berchem, for "A system of lamps."—Dated 12th July, 1859.

7759. E. Livermore, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in combustible fluids for lighting and heating."—Dated 15th July, 1859.—(English Patent, 8th July, 1859.)

7760. J. B. Bichelberger, of Huy, for an imported invention of "A machine for washing rags."—Dated 18th July, 1859.—(French Patent, 24th December, 1856.)

7761. H. J. Legrand, of Verviers, for "Improvements in spinning frames."—Dated 18th July, 1859.

7763. L. Dupuis, of Mont-sur-Marchienne, for "A mode of heating coal dust for making compressed coal cakes, applicable to common mixing machines."—Dated 4th July, 1859.

7764. C. Tillière, of Brussels, for "A remontoir of watches."—Dated 16th July, 1859.

7765. J. J. Schaeffler, represented by G. Mohl, of St. Josse-ten-Noode, for "An apparatus for distributing the gas of blast furnaces."—Dated 16th July, 1859.

7766. W. Talbot, represented by A. Crooy, of Brussels, for an "Improved apparatus for lighting cigars."—Dated 16th July, 1859.

7767. G. Spiller, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in military and other knapsacks."—Dated 16th July, 1859.—(English Patent, 2nd December, 1858.)

7768. F. Delagrange, of Brussels, for an imported invention of "A mode of using waste of silk and other filamentous substances."—Dated 16th July, 1859.—(French Patent, 2nd July, 1859.)

7769. L. Guinotte, of Couilbet, for "A regulator of steam-engines."—Dated 21st July, 1859.

7770. A. J. Dessales, of St. Josse-ten-Noode, for an imported invention of "A suspension rod with fixed stops for lighting apparatus."—Dated 19th July, 1859.—(French Patent, 24th May, 1859.)

7771. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the manufacture of cast steel."—Dated 19th July, 1859.—(English Patent, 12th January, 1859.)

7772. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the treatment of cast steel."—Dated 19th July, 1859.—(English Patent, 15th January, 1859.)

7773. H. A. Bonneville, represented by A. Hennelle, of St. Josse-ten-Noode, for "A machine for obtaining heads of bolts by punching."—Dated 19th July, 1859.

7774. H. Gaudibert, represented by A. Hennelle, for an imported invention of "An apparatus for cleansing combs."—Dated 19th July, 1859.—(French Patent, 27th June, 1859.)

7775. Z. G. A. N. Orioli, represented by O. Daillencourt, of Brussels, for an imported invention of "Bleaching, dyeing, and preserving organic substances by means of hydrochlorite of alumina."—Dated 19th July, 1859.—(French Patent, 19th April, 1859.)

7776. G. Walker, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in toilet mirrors."—Dated 20th July, 1859—(English Patent, 20th May, 1859.)

7777. The Floreffe Company for the Manufacture of Mirrors and Chemical Products, represented by H. Henroz, of Floreffe, for "Condensing hydrochloric acid gas and apparatus belonging thereto."—Dated 21st July, 1859.

7778. A. J. Wilmart, of Yoes-Gomezée, for "A machine for obtaining balls of coals."—Dated 22nd July, 1859.

7779. Ch. Van Kalck, of Brussels, for "Manufacture of heads of pins, cramps, bolts, &c."—Dated 21st July, 1859.

7780. W. Knapton and A. Aitchinson, represented by A. Crooy, of Brussels, for "Improvements in the manufacture of lighting gas."—Dated 21st July, 1859.—(English Patent, 5th July, 1859.)

7781. Ch. Charlier, of Wandre, a Patent of Improvement for "A system of revolvers."—Dated 22nd July, 1859.—(Original Patent, 2nd December, 1857.)

7782. Ph. Denis, of Brussels, for "A spring mattress for beds."—Dated 22nd July, 1859.

7784. R. W. Sievier, represented by X. Raclot, of Brussels, for "Improvements in smelting and refining iron and other metals."—Dated 22nd July, 1859.

7785. A. A. Perier and L. Possoz, represented by Ch. Hulot, of Molenbeek St. Jean, a Patent of Improvement for "Manufacture of sugar."—Dated 22nd July, 1859.—(Original Patent, 1st March, 1859.)

7786. F. de Calurve, of Brussels, for "A system of fastening show windows."—Dated 23rd July, 1859.

7788. W. Robertson, represented by J. Sainthill, of Brussels, for an imported invention of "Improvements in apparatus for propelling vessels on canals and rivers."—Dated 23rd July, 1859.—(English Patent, 28th January, 1859.)

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 586. TUESDAY, AUGUST 16, 1859. Price 2*d*.

Notices to Proceed.

NOTICE is hereby given, that

822. YVES-MARIE THOMAS, of No. 2, Rue Sainte Appoline, Paris, empire of France, and of No. 45, Essex Street, Strand, London, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improved propeller for ships, vessels, boats, and water-wheels."

As set forth in his petition, recorded in the said office on the 1st day of April, 1859.

832. And MICHAEL COUPLAND, of Haggerstone, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in furnaces."

As set forth in his petition, recorded in the said office on the 2nd day of April, 1859.

850. And EDWARD FAIRBURN, of Kirklees Mills, Mirfield, in the county of York, Card Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for carding wool and other fibrous substances."

852. And FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in open fireplaces."—A communication from abroad by Calvin Dodge, of Pittsburg, North America.

853. And GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, and EDWARD DUTCH, of the same place, Commercial Traveller, have given the like notice in respect of the invention of "Improvements in the apparatus for regulating the quantity of water to be used for the flushing of water closets and other purposes."

855. And JOHN HETHERINGTON, of Manchester, in the county of Lancaster, Machinist, THOMAS WEBB, and JAMES CRAIG, of Tutbury, in the county of Derby, Cotton Spinners, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for spinning and doubling cotton and other fibrous materials."

856. And THOMAS SCOTT, of Dundee, in the county of Forfar, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in preparing, treating, or manufacturing fibrous materials, and in the apparatus employed therein."

As set forth in their respective petitions, all recorded in the said office on the 5th day of April, 1859.

864. And JOHN SCOFFERN, of No. 4, Barnard's Inn, Bachelor of Medecine, has given the like notice in respect of the invention of "Improvements in lubricating projectiles and cartridges."

As set forth in his petition, recorded in the said office on the 6th day of April, 1859.

865. And DAVID MOSELEY, af the Chapel Field Works, Ardwick, in the city of Manchester, Manufacturer of india-rubber and gutta-percha, has given the like notice in respect of the invention of "Improvements in the manufacture of cards for carding cotton and other fibrous materials."

As set forth in his petition, recorded in the said office on the 7th day of April, 1859.

880. And NICOLAS ALEXIS GRUMEL, formerly a Dyer, and at present Ink Manufacturer, in Paris, in the empire of France, has given the like notice in respect of the invention of "Improvements in dyeing cotton, wool, silk, flax, and other fibrous materials or fabrics."

As set forth in his petition, recorded in the said office on the 8th day of April, 1859.

888. And THOMAS BARNETT, of Oldham, in the county of Lancaster, HENRY TURNER, Sourbuts, and WILLIAM LOYND, of Hyde, in the county of Chester, Engineers, have given the like notice in respect of the invention of "Improvements in steam engines."

891. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture or production of the ferrocyanide and cyanide of potassium."—A communication from abroad by Jean Victor Lucas, of Paris, in the French empire, Chemist.

895. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in steam engines and boilers."—A communication from abroad, by Ernest Georges Xavier Boileau, of Paris, in the empire of France.

As set forth in their respective petitions, all recorded in the said office on the 9th day of April, 1859.

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923. And RICHARD EMERY, of No. 6, King Street, Saint James's Square, in the city of Westminster, and county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Certain improvements in carriages for common roads."

924. And WILLIAM ARENA MARTIN and JAMES PURDIE, of Woolwich, in the county of Kent, Engineers, have given the like notice in respect of the invention of "Improvements in fire bars."

928. And WILLIAM CRAFT, of No. 12, Cambridge Road, Hammersmith, and THOMAS WILSON, of Bradmore House, Chiswick, both in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in the manufacture of pinafores and bibs for children."

As set forth in their respective petitions, all recorded in the said office on the 13th day of April, 1859.

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938. And JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in the means of preventing locomotive engines and carriages in motion on railways leaving or running off the rails."

945. And STEPHEN BARNWELL, of Coventry, in the county of Warwick, Manufacturer, and ALEXANDER ROLLASON, of Birmingham, in the same county, Chemist, have given the like notice in respect of the invention of "Improvements in the manufacture of umbrellas, parasols, hats, or hat covers, caps, capes, coats, mantles, dresses, gloves, and other similar articles."

As set forth in their respective petitions, both recorded in the said office on the 14th day of April, 1859.

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946. And GERMAIN ABEILLOU, of Toulouse, a town of France, Joiners' Tool Manufacturer, has given the like notice in respect of the invention of "An extensible arching plane."

As set forth in his petition, recorded in the said office on the 15th day of April, 1859.

957. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of alumina."—A communication from abroad by Mr. Le Chatelier, of Paris.

960. And HENRY HARRISON, of the firm of Joseph Harrison and Sons, of Blackburn, in the county of Lancaster, Machine Makers, has given the like notice in respect of the invention of "Certain improvements in looms for weaving."

As set forth in their respective petitions, both recorded in the said office on the 16th day of April, 1859.

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985. And PETER REYNOLDS, of Belfast, in the county of Antrim, Ireland, and JAMES REYNOLDS, of the same place, Engineers and Machinists, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for hackling flax and other fibrous materials."

991. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery for weaving seamless bags or other articles with hemispherical or regular or irregular ends or forms."—A communication from abroad by John Pender, of the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 19th day of April, 1859.

1046. And ROBERT MAIN, of Birkenhead, in the county of Chester, Carriage Builder, has given the like notice in respect of the invention of "Improvements in wheels for carriages."

1051. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for grinding and polishing knives and other articles of cutlery and tools."—A communication from abroad by James Dodge, of Waterford, Saratoga county, state of New York, United States of America.

As set forth in their respective petitions, both recorded in the said office on the 26th day of April, 1859.

1087. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in ventilating or supplying air to diving bells and divers, and in holding communication therewith from above."—A communication from abroad by François Aquilas Laurent, of Paris.

1091. And JOSEPH SOUQUIÉRE (called EMILE), of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "A new or improved process for distilling coal."

As set forth in their respective petitions, both recorded in the said office on the 30th day of April, 1859.

1109. And WILLIAM SELLERS, of Philadelphia, in the state of Pennsylvania, United States of America, Engineer and Machinist, has given the

like notice in respect of the invention of "Improved machinery for making screw bolts and nuts."
As set forth in his petition, recorded in the said office on the 3rd day of May, 1859.

1204. And WILLIAM SPARKS THOMSON, of New York, in the United States of America, but now of St. Martin's-le-Grand, London, Skirt Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of hooped skirts."—Partly a communication from abroad by William Wilmot, of New York, in the United States of America.
As set forth in his petition, recorded in the said office on the 13th day of May, 1859.

1412. And WILLIAM SELLERS, of Philadelphia, in the state of Pennsylvania, one of the United States of America, Engineer and Machinist, has given the like notice in respect of the invention of "Improvements in ovens for baking bread or other substances, which improvements are also applicable for drying, annealing, and other analogous purposes."
As set forth in his petition, recorded in the said office on the 10th day of June, 1859.

1560. And JOHN LAWSON, of Leeds, in the county of York, Engineer, and STEPHEN COTTON, of Leeds aforesaid, Draftsman, have given the like notice in respect of the invention of "Certain improvements in machinery for roving, twisting, and spinning flax, cotton, wool, and other fibrous substances."
As set forth in their petition, recorded in the said office on the 30th day of June, 1859.

1580. And THOMAS JAMES HART, of Birmingham in the county of Warwick, Gun Barrel Manufacturer, has given the like notice in respect of the invention of "Improvements in breach loading fire arms."
As set forth in his petition, recorded in the said office on the 2nd day of July, 1859.

1595. And CHARLES BARLOW, of No. 89, Chancery Lane, London, Patent Agent, has given the like notice in respect of the invention of "Improvements in capstans." — A communication from abroad by Samuel Huse, of Boston, United States of America.
As set forth in his petition, recorded in the said office on the 5th day of July, 1859.

1626. And ELIJAH LIVERMORE, of the city of New York, in the United States of America, has given the like notice in respect of the invention of "Improvements in the manufacture of burning fluids for illuminating and heating purposes."—A communication from Levi Lewis Hill, resident at Greenport, in the county of Columbia, and state of New York, in the United States of America.
As set forth in his petition, recorded in the said office on the 8th day of July, 1859.

1658. And ALLAN COOPER, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of the grips of swords and sword bayonets."
As set forth in his petition, recorded in the said office on the 13th day of July, 1859.

1681. And JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction and arrangement of hydraulic and other pumps for forcing liquids and for obtaining pressure."

1682. And JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Certain improvements in the manufacture of boots and shoes, and in the machinery and apparatus to be employed therein."
As set forth in their respective petitions, both recorded in the said office on the 16th day of July, 1859.

1691. And JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture of boots and shoes and the means employed therein."
As set forth in his petition, recorded in the said office on the 18th day of July, 1859.

1720. And SAMUEL ALEXANDER BELL and JOHN BLACK, of Bow Lane, Cheapside, in the city of London, Vesta Light and Fusee Manufacturers, have given the like notice in respect of the invention of "An improved manufacture of fusee."
As set forth in their petition, recorded in the said office on the 22nd day of July, 1859.

1759. And JAMES WRIGHT, of No. 42, Bridge Street, Blackfriars, city of London, Civil Engineer, has given the like notice in respect of the invention of "An improved method of raising or drawing up the skirts of gowns or dresses."—A communication from abroad by M. Bresson, of Paris, in the French empire, Civil Engineer.
As set forth in his petition, recorded in the said office on the 29th day of July, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

16*th August*, 1859.

474. PETER SPENCE, of Pendleton, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in the manufacture of alum and in the mode of and apparatus for condensing or destroying gases arising therefrom."—Dated 21st February, 1859.

478. Joseph Schloss, of Cannon Street, in the city of London, Manufacturer, for an invention of "An improvement in locks or clasps for porte-monnaies, pocket books, bags, and other like purposes." — A communication from Vve. Henry Schloss and Frère, residing in Paris.—Dated 21st February, 1859.

485. Edward Lund, of Manchester, in the county of Lancaster, Gentleman, for an invention of "Certain improvements in the manufacture of fabrics or textures to be used in the construction of umbrellas and parasols." — Dated 22nd February, 1859.

486. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "A method of fixing tannin upon textile fibres and the employment thereof in dyeing black and dark colors." — A communication from M. Verguin, residing at Lyon, France.—Dated 22nd February, 1859.

488. William Gossage, of Widnes, in the county of Lancaster, for an invention of "Improvements in the utilization of alkali waste."—Dated 22nd February, 1859.

491. William Ashton, of Heaton Norris, in the county of Lancaster, Manager, for an invention of "Improvements in gas regulators."—Dated 23rd February, 1859.

493. Uriah Scott, of Camden Town, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in carriages and various parts of the same, which parts may be applied to vehicles of any description."—Dated 23rd February, 1859.

495. Samuel Rodgers Samuels, of Nottingham, for an invention of "Improvements in twist lace machines."—Dated 23rd February, 1859.

498. Henry Bernoulli Barlow, of the city of Manchester, Patent Agent, for an invention of "Improvements in apparatus for condensing steam." — A communication from abroad by François Daina, of Bergamo, in the empire of Austria.—Dated 24th February, 1859.

503. Joseph Crosland, of Crosland Moor, Huddersfield, in the county of York, Manufacturer, for an invention of "Improvements in looms for weaving textile fabrics."—Dated 24th February, 1859.

504. Adolphe Lançon, junr., Watch Manufacturer, at Besançon, Departement du Doubs, empire of France, for an invention of "A new system of watches."—Dated 24th February, 1859.

575. James Cowban and Elias Andrews, of Burnley, in the county of Lancaster, for an invention of "Improvements in machinery or apparatus for spinning fibrous materials."—Dated 4th March, 1859.

586. George Leach, of Leeds, in the county of York, Yarn Spinner and Cloth Manufacturer, for an invention of "Improved machinery for reeling and leashing yarn or thread."—Dated 5th March, 1859.

598. John Pretty Clarke, of King's Street Mills, Leicester, for an invention of "Improvements in the manufacture of reels for the winding on cotton, linen, thread, silk, or other fibrous materials."—Dated 7th March, 1859.

643. Thomas Lightfoot, of Accrington, in the county of Lancaster, Calico Printer, for an invention of "Improvements in fixing colours on woven fabrics or fibrous materials."—Dated 14th March, 1859.

655. John Dixon and Robert Clayton, both of Bradford, in the county of York, Engineers, for an invention of "Improvements in rolling iron and steel for manufacturing railway wheels and for other purposes."—Dated 16th March, 1859.

770. Benjamin Smith and Charles Lavers Smith, both of Corbets Court, Spitalfields, in the county of Middlesex, Manufacturing Chemists, for an invention of "Improvements in the preparation of certain colouring matter applicable for dyeing and printing."—Dated 26th March, 1859.

1189. Daniel Foxwell, of the city of Manchester, in the county of Lancaster, Card Manufacturer, for an invention of "Improvements in sewing machines and apparatus connected therewith."—Dated 12th May, 1859.

1275. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved construction of washing machine."—A communication from abroad by David Parker, of Shaker Village, New Hampshire, in the United States of America.—Dated 23rd May, 1859.

1392. Robert Riddell Fairgrieve, of Boston, in the United States of America, Machinist, and Simeon Bathgate, of the town and county of Selkirk, North Britain, Engineer, for an invention of "Improvements in machinery or apparatus for winding yarns or thread." — Dated 7th June, 1859.

1394. John Henderson, William Henderson, and Thomas Bagley, of the city of Durham, Carpet Manufacturers, and Samuel Holdsworth, of the same place, Engineer to Messieurs Henderson and Company, for an invention of "Improvements in looms for weaving, some of which improvements are applicable to other purposes."—Dated 8th June, 1859.

1428. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the fitting of life and other boats."—A communication from abroad by Matthias Ludlum, of Fairhaven, in the state of Vermont, United States of America.—Dated 13th June, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 12th August*, 1859, *inclusive.*)

11th August.

1900. Alfred Priest and William Woolnough, of the Iron Works, Kingston-on-Thames, for an invention of "Improvements in horse hoes."—Dated 14th August, 1856.

12th August.

1899. Edward Hallen, of Cornwall Road, Lambeth, in the county of Surrey, Civil Engineer, and William Holland Kingston, of Bandon, in the county of Cork, Ireland, A.B., Trinity College, Dublin, for an invention of "Improved means for making signals on railways."—Dated 14th August, 1856.

1917. John Weir Draper Brown, of Burrel's Hotel, London Bridge, and George Gibson Brown, of Deptford Dockyard, for an invention of "Improvements in signal lanterns."—Dated 16th August, 1856.

1952. Joseph Crossley, Carpet Manufacturer, of Halifax, in the county of York, and James Bolton, of the same place, Overlooker, for an invention of "Improvements in apparatus or means employed in the printing of yarns for carpets and other fabrics."—Dated 21st August, 1856.

1988. Edward Alfred Cowper, of Great George Street, Westminster, Civil Engineer, for an invention of "An improvement in the manufacture of candles."—Dated 26th August, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 26th July, 1859, and each bearing that date.

No. 24,850. Asa Brooks, of Tolland, Conn., for an "Improved mode of setting logs in saw mills."

"What I claim, is, the application and combination of the gear A and screw shaft L, the traveling ratchet E and chock *c*, the stops F and K, the spring pawl B, D, for the purpose as herein described and substantially as set forth."

No. 24,851. Henry F. Bond, of Hudson, Wis., for an "Improved bread slicer."

"What I claim, is, the movable tray G, operated automatically by the motion of the knife C, in the manner substantially as herein set forth. 2nd, I claim the bar T, arranged substantially as described for the purpose specified.

No. 24,852. S. L. Bond, of Greenwood, S.C., for an "Improved tuyere."

"I claim the arrangement and combination of the two pipes C, C, having their orifices opposite to each other, with the air chamber B, so that the two currents of air on entering the chamber will oppose each other, and thus uniformly diffuse the air, as herein shown and described."

No. 24,853. John Biberthaler, of New York, N.Y., for an "Improved iron folding bedstead."

"What I claim, is, the arrangement of the bed bottom in two parts, one of which A being about two thirds of the whole length of the bed, and to which the legs are attached, capable of turning under said part when required, and attaching the other part D (and which forms the upper or head part of the bed) to the legs nearest the head in such a manner that the said part D may be turned over the top of the bottom part A, while the legs to which the same is attached are turned under the said part A, in the manner and for the purpose substantially as described. I further claim fixing the head part of the bed D when unfolded either to the legs B or to the bottom part A, by means of bolts or pins (*n*), in such a manner that by said bolts the inclination of said part D may at the same time be regulated to any desired position, substantially as described and set forth."

No. 24,854. Henry Bessling, of New York, N.Y., for an "Improvement in reefing sails."

"What I claim, is, the slides *d*, d^1, applied to work along the jack stay or other suitable portion of the yard, in combination with the reef points extended from the back of the sail, up through the jack stay or yard, and with the reef pendants, substantially as herein described. And without confining myself to the particular construction of the pawls I, I, I claim securing the reef by means of pawls applied to the yard, to operate in combination portions of the reef pendants made of chain substantially as herein described."

No. 24,855. Alexr. Beekers, of New York, N.Y., for an "Improvement in stereoscopic instruments."

"I claim, first, placing the eye glasses B, in a movable cylinder A, in such a manner that opaque pictures O^1 and O^2, placed back to back, may be viewed by the same pair of eye-glasses, the direction of the said eye-glasses being varied by the partial rotation of the cylinder to suit the opposite position of the pictures, substantially as described. Second, the construction of the picture holders with a double hook N, substantially as described."

No. 24,856. Edwin C. Custer, of Evansburgh, Pa., for an "Improved machine for stoning cherries."

"What I claim, is, the described machine for stoning cherries constructed in a manner substantially as specified, with its spirally grooved cylinder A, and adjustable stripper E, arranged and operating as set forth."

No. 24,857. James M. Clark, of Philadelphia, Pa., for an "Improvement in flour bolts."

"What I claim, is, slide valve *d*, or a series of slide valves d^* without holes in them, so arranged and operating with the apertures *e* and e^1, in the sides of bolting chest, that either of these apertures can be opened or closed, or both closed when required for the purpose of turning the material as desired in either of three directions as set forth."

No. 24,858. B. Wells Dunklee and W. B. Moore, of Boston, Mass., for an "Improved steam heating apparatus."

"What we claim, is, the combination of the tubes E, casing P, inner and outer reservoirs C and D, and condensation pipes I, and escape pipe J, with its valve *d*, with petticoat chamber F, and vaporizing pipe *b*, and the use of the iron known as the Poleux patent metal alloy coating, substantially as and for the purposes set forth in the foregoing specification and accompanying drawings."

No. 24,859. Chas. Frost, of Waterbury, Conn., for an "Improved door fastening."

"What I claim, is, the employment or use of the drop plate D, constructed of the form and applied to the door or doors, substantially as and for the purpose set forth."

No. 24,860. Henry Fisher, of Alliance, Ohio, for an "Improvement in harvesters."

"What I claim, is, attaching the draft or draw bars M, M^1, to the arms L, L^1, in the manner and for the purposes substantially as set forth. I also claim the peculiar arrangement and combination of frames I, K, and M, tongue N, spur *e*, and arm *g*, in relation to each other and to the main shaft B, to operate in the manner and for the purpose specified."

No. 24,861. Geo. H. Ferguson and Sylvester Ferguson, of Malden Bridge, N. Y., for a "Machine for feeding paper to printing presses."

"What we claim, is, feeding sheets of paper singly to a printing press, paper ruling, or other machine requiring

the feed of a single sheet at a time, by means of a feed roller G, feed roller I, and adjustable friction stop J, or the equivalents thereof, when arranged, essentially as herein above specified."

No. 24,862. Benjn. L. Griffith, of Hazelton, Pa., for an "Improvement in locomotive boilers."

"I claim the deflectors G, G¹, and H, arranged within the space C, between the fire place and the tube sheet of a locomotive boiler, substantially as described, in combination with openings in the fire-box for the admission of atmospheric air, for the purpose specified."

No. 24,863. E. A. Goodes and E. L. Miller, of Philadelphia, Pa., for an "Improvement in sewing machines."

"What we claim is the combination of the needles *n*, and *b*, the hook *h*, and the tongue L, the whole applied, arranged, and operating, substantially as herein described."

No. 24,864. Chas. M. Gould, of Worcester, Mass., for an "Improved submarine helmet window."

"What I claim, is, the application to submarine helmets of the above-described window, substantially in the manner and for the purposes herein described."

No. 24,865. Chas. Glassborow, of Philadelphia, Pa., for an "Improvement in piano-fortes."

"I claim constructing the string frame of an upright piano with two pin blocks and other appliances for receiving two sets of strings and two distinct sounding boards, the strings being arranged, one set on one side and the other set on the opposite of the frame, the two sounding boards being connected together, and the whole being otherwise constructed, substantially in the manner and for the purpose herein set forth."

No. 24,866. James Gilfillan, of Hartford, Conn., for an "Improvement in valves for water closets."

"What I claim, is, the combination of elastic tubular spring R, piston D, chamber E, operating in the manner, as and for the purpose described."

No. 24,867. Richd. Gill and Geo. W. Grier, of Altoona, Pa., for an "Improvement in the furnaces of locomotive engines."

"What we claim, is, in combination with the fire-box of a coal-burning locomotive boiler, a water deflector, having a series of small openings through it, and extending up over the fire, as represented, and an air passage behind, or over it, which communicates with the external air, for the purpose of introducing atmospheric air, in small jets over the fire, substantially in the manner and for the purpose set forth."

No. 24,868. Enos Hartzler, of Orville, Ohio, for an "Improved pump."

"What I claim, is, the arrangement of pipes E, F, G, H, valves *c*, *c*, *c*, *c*, springs *x*, *x*, *x*, *x*, and spring *a*, with the rod I, box C, and stock A, the several parts being combined and operating, substantially as and for the purpose specified."

No. 24,869. E. H. Hancock, of Augusta, Geo., for an "Improved sawing machine."

"I claim, 1st, the combination of the yielding guard levers, or their equivalent, with the rotary saws, substantially as and for the purpose described. 2nd, the head blocks D, swinging guide (E), circular saws (A), and guard lever (C), when arranging and operating, substantially as and for the purpose set forth."

No. 24,870. Wm. Hall, of North Adams, Mass., for an "Improvement in sewing machines."

"What I claim, is, first, the combination of the needle carrier B, pivoted bar M, connecting rod J, slide I, pitman H, and crank G, when arranged and operating in the manner and for the purpose substantially as above set forth. Second, the combination of slide I, and rod J (or its equivalent), with a vibrating needle carrier, in such manner as to produce two vertical motions on the needle, during each single horizontal motion of the slide I, substantially in the manner fully set forth in my description."

No. 24,871. Geo. Hall and Alonzo Scudder, of Morris, N. Y., for an "Improved washing machine."

"We claim the employment of a corrugated flexible metallic concave B, stretching across the lower part of the machine, substantially as and for the purpose herein shown and described."

No. 24,872. Chas. H. Hersey, of Boston, Mass., for an "Improvement in rotary pumps."

"I claim the combination of the flange shaft with the hinged valve and cone, substantially as described for the purpose specified."

No. 24,873. Benjn. Hinkley, of Troy, N. Y., for an improved bedstead."

"I claim the arrangement of the dovetailed tenons *m* or *m*¹, on the end rails B, and corresponding dovetailed mortises *n* or *n*¹, in the full posts K, with the side rails J, and longitudinal tension rods *a*, as and for the purposes herein set forth."

No. 24,874. Francis A. Hoyt, of Boston, Mass., for an "Improved water and alarm gauge for steam boilers."

"I claim the arrangement of the balanced valve chamber and valve, the leading pipe thereof, and the whistle, with reference to the dry steam chamber C, the indicator chamber B, and the valve lever and the indicator hand, connected together and arranged in the two chambers B and C, as specified."

No. 24,875. Richd. M. Hoe, of New York. N. Y., for an "Improvement in printing machines."

"I claim stopping the sheet of paper as it issues after its first side is printed, and imparting to it a retrograde motion, thus returning it backwards, or in reverse order, to the impression cylinder for the purpose of printing the second side by the means substantially as above described."

No. 24,876. Frederic Kettler, of Milwaukie, Wis., for an "Improvement in force pumps."

"What I claim as my invention, is, the combination and arrangement of a force pump, as herein described, for the purpose set forth."

No. 24,877. Frederic Kettler, of Milwaukie, Wis., for an "Improved force pump."

"What I claim as my invention, is, the combination and arrangement of a force pump, as herein described for the purpose set forth."

No. 24,878. Geo. T. Kearsing and Wm. F. Kearsing, of Butte City, Cal., for an "Improvement in mills for crushing quartz."

"What we claim, is, the arrangement and combination of the driving shaft C, arms B, rods A, and runner *h*, substantially as and for the purpose described."

No. 24,879. Robt. Marcher, of New York, N. Y., for an "Improvement in machines for enamiling mouldings.

"I do claim, 1st, the elastic or yielding sides *a*, *a*, of the hopper B, arranged to operate substantially as and for the purpose set forth. 2nd, in combination with the hopper B the reciprocating dog S, attached to the bed E, and operated as shown; and also, in combination with said hopper, the feed rollers L, L¹, P, P¹, either or both feeding devices being employed for the purpose specified."

No. 24,880. Chas. Messenger, of Warren, O., for an "Improved bedstead."

"What I claim, is, the angular and oblique slot F and pin G, in combination with the plate or key D, when arranged in connection with the jointed rails, substantially as described and for the purpose herein-before set forth."

No. 24,881. Joseph W. Morton, of Plainfield, N.J., for an "Improvement in sewing machines."

"What I claim, is, my improved loop check or thread-holder, for the Wheeler and Wilson sewing machine, viz., a loop check or thread-holder, which is composed of hair, bristles, or other suitable fibres, by compacting them into a firm mass of suitable size, and then combining the same with a sewing machine in such a manner that the ends of the said

fibres will bear against a portion of the rotating hook of said machine, substantially as herein set forth."

No. 24,882. Richd. Montgomery, of New York, N. Y., for an "Improvement in machines for manufacturing waved and corrugated metal plates."

"What I claim is, the combination of the peculiarly constructed roll I with the peculiarly constructed roll J, arranged and operating in relation to each other as shown, whereby the manufacture of the waved corrugated metallic plate with margins of greater thickness than the middle, as patented to me on the 21st of June, 1859, is facilitated, while a portion of 'each corrugation' is formed at the same time, as described."

No. 24,883. Richd. Montgomery, of New York, N. Y., for an "Improved machine for manufacturing waved and corrugated metal plates."

"What I claim, is, the combination of the peculiarly formed roll I^1 with the peculiarly formed roll J^1, arranged and operating in relation to each other as shown and set forth, whereby the manufacture of the waved corrugated metallic plate with margins of greater thickness than the middle, as patented to me on the 21st of June, 1859, is facilitated while only 'one corrugation' is formed at the same time, as described."

No. 24,884. Daniel Morris, of Bangor, Me., for an "Improvement in shirt studs."

"But I claim the improved manufacture of shirt stud, as constructed with a metallic facing A, and an anti-soiling spool or guard B, arranged and combined together substantially as specified."

No. 24,885. Joseph Newman, of Baltimore, Md., for an "Improvement in platforms between railroad cars."

"What I claim, is, the expanding mesh or lattice work described, when attached by a single point at each end, substantially in the manner set forth, to be used as a bridge, or gangway, between railroad cars."

No. 24,886. Suspended.

No. 24,887. Ira Robbins, of Hughesville, Pa., for an "Improvement in gates for rail-roads."

"I claim the shafts S, S^1, having arms *a*, *b*, as described, in combination with the shaft B, lever A, train of wheels *c*, *c*, *c*, spring detent *g*, spring *f*, and the several rods connecting the aforesaid parts, substantially as set forth for operating the sliding gate G."

No. 24,888. David B. Rogers and Joel N. Wood, of Pittsburgh, Pa., for an "Improvement in springs for railroad cars."

"What we claim, is, the combination of a series of plate springs constructed and arranged as described, with a box, in which they are inserted, and a follower, the spring box being either separate from, or forming part of the truck, substantially in the manner and for the purposes herein-before set forth. Also, making and using the plates or leaves of the spring, constructed and arranged as herein-before described, of different thicknesses in the same series, for the purpose of adapting the spring to the varying degrees of pressure to which it may be subjected from time to time."

No. 24,889. Harrison Roberts, of Mormon Island, Cal., for an "Improvement in gold washers."

"What I claim, is, the arrangement of the sluice B, in combination with the hopper A, and with the supply channel C, in such a manner that the water strikes the dirt from below, and that the hopper is made self-supplying, substantially as herein specified."

No. 24,890. Isaac R. Shank, of Buffalo, Va., for an "Improved biscuit board."

"What I claim, is, the arrangement and combination of trap boards H, H, beveled strips G, G, levers I, I, and vertical pins J, substantially in the manner and for the purposes herein above set forth."

No. 24,891. Henry Simon, of Providence, R.I., for an "Improvement in shirt studs."

"What I claim as my improvement, is, the movable elbow piece *d*, *e*, spring *g*, and lever *h*, applied in combination with each other and with the fixed shank *c*, and in relation to a fixed elbow piece *a*, *b*, substantially as herein described."

No. 24,892. Isaac M. Singer, of New York, N.Y., for an "Improvement in sewing machines."

"I claim making the needle carrier with a mortise, substantially as described, in combination with the needles, a series of blocks having parallel sides grooved to receive the needles, and with a clamp screw, or its equivalent, all substantially as described, and for the purpose set forth."

No. 24,893. John Taggart, of Roxbury, Mass., for an "Improvement in nine-pin balls."

"I claim the new or improved article of manufacture, or nine-pin ball, as composed of a hollow metallic body A, and a covering B of india rubber, or other suitable elastic material, the same being constructed and arranged in manner as herein-before set forth."

No. 24,894. Geo. I. Washburn, of Worcester, Mass., for an "Improvement in boring tools."

"I claim giving the stock or shaft of a boring screw-driving or other tool, a continuous rotary motion in one and the same direction by means of a nut or sleeve, which is moved in a rectilinear reciprocating direction on said shaft, when constructed and arranged substantially in the manner herein described."

No. 24,895. Amos Webb, of Savannah, Geo., for an "Improvement in the construction of railroads."

"I claim the arrangement of the ties A, in alternate reversed inclined positions, as and for the purpose herein shown and described."

No. 24,896. Charles A. Wilson, of Cincinnati, O., for an "Improvement in apparatus for warming by steam."

"I claim the valves E, F, *f*, *g*, adapted and arranged substantially as set forth in the lower or discharging end of the branches, coils, or radiators of a system of steam-heating pipes, and closable, automatically by heat, in the manner and for the purpose explained."

No. 24,897. Chas. A. Wilson, of Cincinnati, Ohio., for an "Improved steam radiator."

"I claim the described arrangement of a series of tubes or boxes 1, 2, 3, &c., provided with corresponding apertures A, and nozzles B, to permit circulation of steam and receive bolts or rods D, which extend from top to bottom of the tier, the whole being adapted in the manner set forth to admit of varying the extent of radiating surface, while that of the floor room occupied remains unchanged."

No. 24,898. Parker Wineman, of Loydsville, Ohio, for an "Improvement in churn dashers."

"What I claim, is, a cylindrical dasher for churns, formed with a perforated top, provided with a movable cap or cover, and with hinged valves, arranged in such manner that cream may be received within the dasher at each downward motion thereof, and all operating substantially as herein described for the purposes set forth."

No. 24,899. Edwd. F. Woodward, of Brooklyn, N. Y., for an "Improved safety guard for ferry wharf."

"What I claim, is, the employment of the apron *g* for the purposes set forth."

No. 24,900. Geo. H. Woodworth, of Brooklyn, N. Y., for an "Improvement in Venetian blinds."

"I claim the eyes 2, 2, or staples passing the cords *f*, *f*, and attaching the tapes *d*, *d*, to the blind slats *e*, *e*, in the manner and for the purposes substantially as specified."

No. 24,901. John N. Wyckoff, of Brooklyn, N.Y., and Thos. M. Fell, of Orange Mines, Va., for an "Improved ore washer and amalgamator."

"To be protected and which we claim as an invention, is, a concentrator constructed with a series of boxes or partitions having curved bottoms, communicating one with the other, and driven transversely, for the purpose of separating poor from rich deposit, all as herein described."

No. 24,902. John N. Wyckoff, of Brooklyn, N.Y., and Thos. M. Fell, of Orange Mines, Va., for an "Improvement in gold amalgamators."

"We do not confine ourselves to the exact details as herein described, but what we especially claim as our invention is,

the application of heat by steam or otherwise to vessels, pans, or cylinders, keeping the contents well triturated or mixed, at an elevated temperature, the whole operating in the manner herein described, so as to amalgamate the prepared ore by the use of mercury and alkali, as specified."

No. 24,903. ELIZA BLAKE, of Albany, N.Y., executrix of Robt. Blake, deceased, assignor to Blake and Son, of same place, for an "Improved wood saw."

"I claim the new manufacture of wood saws, in the manner herein set forth, meaning by this to claim only the sole right to manufacture according to the mode of construction herein set forth, the special kind and character of saws known as wood saws, and clearly defined and represented in the above description and drawings."

No. 24,904. JOHN BURR, of Baltimore, Md., assignor (through mesne assignment) to Geo. H. Fayman, of Washington, D. C., for an "Improved clothes frame."

"I claim the seat S, capable of movement on the shaft in one direction only, and provided with the weighted detent, as set forth, and the ring R, moveable thereon, without bearing against the shaft, in combination with the shaft A, arms D, braces B, and cords E, arranged and operating as and for the purposes described."

No. 24,905. JOHN W. FISCHER, of New York, N.Y., assignor to himself and Chas. S. Fischer, of same place, for an "Improvement in piano-fortes."

"What I claim, is, the bar *l* beneath the dampers *i*, *i*, and above the piano strings, actuated by the levers *m*, *n*, or their equivalents, in the manner and for the purposes specified."

No. 24,906. SIMEON GOODFELLOW, of Troy, N. Y., assignor to himself and John Fish, of same place, for an "Improvement in screw stocks."

"What I claim, is, the cutting die G, in combination with the vibrating circular plug F, and the movable holder D, when the same are arranged and operated essentially as specified."

No. 24,907. ALFRED GUTHRIE, of Chicago, Ill., assignor to Wardell Guthrie, of same place, for an "Improved churn."

"What I claim, is, the combination and arrangement of the cranks C, C, C, C, connected by the plate D or its equivalent, operating in the manner and for the purpose set forth and explained, substantially as herein described."

No. 24,908. ALBERT H. HOOK, of New York, N. Y., assignor to Wm. A. Horstmann, of Brooklyn, N. Y., for an "Improvement in glass polishing machines."

"What I claim therein is, the combination of the apparatus for producing the reciprocating longitudinal motion and continuous lateral motion given to the polishing blocks, consisting of the screws *k*, worm wheel *l*, worm *m*, and its connections with the driving power, arranged and operated in the manner set forth."

No. 24,909. HEZEKIAH JOHNSTON and WM. J. MATTHEWS, of Collingsville, Ill., assignor (through mesne assignment) to Hezekiah Johnston, of same place, for an "Improvement in fire escape ladders."

"We claim the combination of the endless belt F with the folding ladders and the platform M, in the manner described."

No. 24,910. JAMES H. MURRILL, of Baltimore, Md., assignor to Egerton, Dougherty, Words, and Co., of same place, for an "Improvement in machine for cracking sugar."

"What I claim is, the employment of a vibrating saw H, when constructed and operated in the manner described, in combination with a gauge plate P and hopper O, arranged substantially in the manner and for the purposes of sawing off slabs of sugar and directing them between crushing rollers. I claim the employment of rollers A, A, moving in unison with each other, when constructed with cruciform cutters *a*, *a*, as described, for the purpose of perfectly dividing slabs of sugar into regular cubic portions, substantially as set forth. I claim the construction of a hopper O, when provided with parallel grooves, or their equivalent, when used in combination with a circular saw, constructed and operated in the manner and for the purposes as set forth."

No. 24,911. W. H. NICHOLS, of East Hampton, Conn., assignor to A. H. Markham, W. H. Nichols, and David Strong, of same place, for an "Improved coffin screw."

"What I claim is, the employment of plates A, or their equivalent, for the purpose of securing or retaining the caps or covers B of coffin screws or tacks, substantially as herein set forth."

No. 24,912. J. Y. PARCE, of Fairport, N. Y., assignor to himself and D. B. De Land, of same place, for an "Improvement in hoisting crane."

"What I claim is, the main arm E of a crane, arranged with the double diagonal braces I and with the guide rollers *m*, to operate in combination with the arm F jointed to the same by means of the oval pin *d*, substantially as and for the purpose set forth."

No. 24,913. SAML. R. SMITH and PHILANDER P. LANE, of Cincinnati, Ohio, assignors to Lane and Bodley, of same place, for an "Improved portable sawing machine."

"We claim, 1st, the idle friction pulley Z, operating substantially in the manner set forth, in combination with the arbor and feed driving a circular saw. 2nd, in the described connection with the transverse rack *h*, the gearing *q*, *q*, ratchet wheel *r*, pawls *t*, lever *s*, and stop *v*, which operate by their rigidity in one direction to transmit a forward movement of the rack *h* to the knee *f*, yet permitting the retraction of said rack *h*, as set forth. 3rd, the described arrangement and adaptation of the weighted eccentric friction pawl, for the exact retention of the knee to the place of setting, as set forth. 4th, the described arrangement and adaptation of the perforated rack *h*, pinions *q*, q^1, knee *f*, and screen *y*, for the exclusion of dust, as explained."

RE-ISSUES.

GEORGE H. CORLISS, of Providence, R. I., for an "Improved cut-off gear."—Patented 29th July, 1851.—Re-issued 26th July, 1859.

"I claim combining with the rocking levers, or their equivalents, for operating the valves, the shoulders on the spring bars, or their equivalents, substantially as described, and for the purpose specified. And I also claim, in combination with the shoulders on the spring bar that operate the rocking levers, substantially as described, the employment of the gauge bars, or any equivalent therefor, to regulate the periods of closing the valves, whether the said gauge bars be regulated by a governor or by other means, as set forth."

DAVID B. ROGERS, of Pittsburgh, Pa., for an "Improvement in R. R. car springs."—Patented 23rd February, 1858.—Re-issued 26th July, 1859.

"I claim constructing a carriage or car spring of a series of two or more plates of steel, each of which is so cured or twisted that the longitudinal curve on one edge or side of each leaf or plate shall be the reverse of the curve on the other side or edge, a longitudinal section through the center of the plate, midway from either edge is a straight line, or nearly so, said plates being so arranged relatively to each other that on both sides the curve at the edge of each leaf or plate shall be in the reverse direction to the curve at the edge of the leaf or plate next above or below it."

JAMES M. COOPER, of New York, N. Y., assignee of Stanhope W. Marston, of same place, for an "Improvement in trigger operating revolving breech fire arms."—Patented 7th January, 1851.—Re-issued 26th July, 1859.

"I claim, 1st, so constructing the lock of revolving breech fire-arms in the mode substantially as herein-before described, or its equivalent, as that the trigger used to fire the pistol, when drawn back, raises the hammer to full cock, and there retains it, the revolving breech or barrels being at the same time rotated so far as to bring the nipple of one of the chambers or barrels in the proper position to be struck by the hammer on its descent, and the trigger being held in a drawn position, ready for instantaneous firing. 2nd, the use of a fly tumbler or vibrating tooth, intermediate between the hammer and trigger, in trigger operating fire-arms, and the peculiar arrangement of the parts of the lock in connection therewith, herein-before described, whereby the tendency of

the main spring to cause the descent of the hammer is neutralized when the hammer reaches the point of full cock, so that the hammer having been raised by the trigger may either be permitted to stand cocked, or fired immediately, at pleasure, and greater ease in firing and steadiness of aim are secured substantially as herein-before described."

THE SHELTON AND OSBORN SKIRT MANUFACTURING COMPANY, of Birmingham, Conn., assignees of E. G. Atwood, of Derby, Conn., for an "Improvement in skeleton skirts."—Patented 19th October, 1858.—Re-issued 26th July, 1859.

"I claim, a skirt formed of elastic hoops and tape, or equivalent material, when the tapes are disposed across the hoops in opposite diagonal directions, and interlock opposite sides of the hoops at the point of crossing, and are confined thereto, substantially as described. I also claim connecting the hoops by means of a series of loops, formed by a continuous tape or equivalent material, passing around the skirt, from one hoop to the other, in opposite diagonal directions without interloping or interlocking between the hoops, substantially as described for the purpose set forth."

THE SHELTON AND OSBORN SKIRT MANUFACTURING COMPANY, of Birmingham, Conn., assignees of E. G. Atwood, of Derby, Conn., for an "Improvement in skeleton skirts."—Patented 19th October, 1858.—Re-issued 26th July, 1859.

"I claim, a skirt formed of elastic hoops and tape, or equivalent material, disposed across the hoops in opposite diagonal directions without being connected between the hoops, but connected to the hoops at suitable intervals, substantially as described."

DESIGNS.

JOHN A. MUNN, of New York, N.Y., for a "Design for clock cases."

"I claim, the general design and configuration herein described."

DAVID HATHAWAY, of Troy, N. Y., assignor to Fuller, Warren, and Co., of same place, for a "Design for cook's stove."

"I claim, the ornamental design for the front and sides of a cook stove herein described."

GEORGE W. PITTOCK and JOHN PITTOCK, of Union Mills, N. Y., assignors to Mosher and H. M. Chase, of West Providence, for a "Design for cook's stove."

"We claim, the ornamental design for a cook stove herein described and represented in the annexed photographic drawings."

WILLIAM W. STEVENS, of Westbrook, Me., assignor to Nathl. P. Richardson, and Co., of Portland, Me., for a "Design for parlor cooking stoves."

"I claim, the configurations, ornaments, and mouldings as a design for an urn, top, door, and frame, base, bottom, and legs to be used with a sheet iron body in making a coal parlor or coal parlor cooking stove, as above described and represented in the accompanying drawings."

ADDITIONAL IMPROVEMENTS.

THEODORE F. HALL, of Marietta, Ohio, for an "Improvement in hanging window sash."—Patented 21st December, 1858.—Additional Improvement dated 26th July, 1859.

"I claim, the improved arrangement of cords, pulleys, and weights herein-before described, for hanging the sashes of windows, so that either or both sash can be retained in any desired position in the frame, the sash and weights being suspended and moving on cords attached to the frame."

JOHN HAW, of Old Church, Va., for an "Improvement in picker sawing machine."—Patented 23rd June, 1857.—Additional Improvement dated 26th July, 1859.

"I claim, attaching the saw guide to the overhanging bearing so as to adjust them to the sawing of small logs, substantially as set forth."

EXTENSION.

WARREN HALE and ALLEN GOODMAN, of Dana, Mass., for an "Improvement in shaping irregular surfaces in wood."—Patented 22nd July, 1845.—Extended 22nd July, 1859.

"We claim, the method herein above described of copying or forming the longitudinal irregularities of piano legs and other similar articles on rough blocks of wood by means of a carriage moving longitudinally against the revolving cutter, and holding both the pattern and the rough block, the cutting tool being raised and depressed for depths of cut by rollers resting on the patterns, the whole method or modus operandi, being substantially as herein above set forth."

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NUMBER of VISITORS for the Week ending 13th August, 1859.

Mornings - - - -	1384
Evenings - - - -	1026
Total - - -	2410

Since the opening of the Museum Free Daily (May 12, 1858,)—126,910.

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Great Seal Patent Office,
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

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No. 587. FRIDAY, AUGUST 19, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1545. To WILLIAM WRAY and JOHN WRAY, both of Leeming, near Bedale, Yorkshire, for the invention of "Certain improvements in reaping machines."

On their petition, recorded in the Office of the Commissioners on the 29th day of June, 1859.

1656. To WILLIAM AUGUSTUS MUNN, of Throwley House, near Feversham, in the county of Kent, (late a Major in the East Kent Militia,) a Deputy Lieutenant and Justice of Peace for the said county of Kent, for the invention of "Improvements in reaping machines."

On his petition, recorded in the Office of the Commissioners on the 13th day of July, 1859.

1708. To ZEPHIRIN GASPARD ALEXANDRE NATHAN PETRONE ORIOLI, of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, for the invention of "New applications of hypochloride of alumina to bleaching and dyeing, and to the disinfection and preservation of organic matters."

On his petition, recorded in the Office of the Commissioners on the 20th day of July, 1859.

1710. To HENRY BERTHON PRESTON, of the firm of Messrs. Fawcett, Preston, and Co., of Liverpool, in the county of Lancaster, Engineers, for the invention of "Improvements in apparatus for superheating steam."

On his petition, recorded in the Office of the Commissioners on the 21st day of July, 1859.

1752. To JOHN ASPINALL, of Charing Cross, in the county of Middlesex, Engineer, for the invention of "Improvements in evaporating and in apparatus for the same, especially applicable to the evaporation of sugar."

On his petition, recorded in the Office of the Commissioners on the 28th day of July, 1859.

1760. To SAMUEL WILSON, of Manchester, in the county of Lancaster, Engineer, for the invention of "Certain improvements in the construction of presses for compressing cotton and other articles."

On his petition, recorded in the Office of the Commissioners on the 29th day of July, 1859.

1766. To FRANÇOIS HAECK, of Schaerbeck, near Brussels, in the kingdom of Belgium, Gentleman, for the invention of "Improvements in refrigerating apparatus especially adapted to pumps and other apparatus for the supply of beer and other liquids."

1772. And to WILLIAM JAMIESON, of Stoney Middleton, in the county of Derby, for the invention of an "Improved churn."—A communication from Oliver Gunnell, resident at Moline, Illinois, in the United States of America.

On both their petitions, recorded in the Office of the Commissioners on the 30th day of July, 1859.

1774. To WILLIAM CAMPBELL, Machinist, and GEORGE WORSTENHOLM, Machinist, both of Birmingham, in the county of Warwick, for the invention of "Certain improvements in machinery for the manufacturing of wrought nails, as also in the treatment of the iron from which such or other kinds of nails may be made."—A communication from abroad by George William Allen, of Rhode Island, United States of America.

1776. To THOMAS WRIGHT GARDINER TREEBY, of No. 1, Westbourne Terrace Villas, Upper Westbourne Terrace, Paddington, Middlesex, for the invention of "Improvements in targets."

1780. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the

county of Middlesex, Civil Engineer, for the invention of "An improved mode of and apparatus for making metal cylinders suitable for steam boilers and other purposes."—A communication from abroad by Reiner Daelen, of Hoerde, in Westphalia.

On their several petitions, recorded in the Office of the Commissioners on the 1st day of August, 1859.

1786. To Bryan Donkin, of Bermondsey, in the county of Surrey, Engineer, for the invention of "Improvements in and in connection with slide and other valves."—A communication from abroad by Thomas Coates, of Sommerfield, Silesia, Engineer.

On his petition, recorded in the Office of the Commissioners on the 2nd day of August, 1859.

1787. To Auguste Pin, of Castelnaudary, in the department of the Aude, in France, for the invention of "The compounding, preparing, and application of a new sort of paint."

1788. To John Hewett, of the firm of Hewett, Allott, and Walker, Accountants, of High Street, Sheffield, in the county of York, for the invention of "Improvements in self-acting water-closets."

1789. To William Kirkby Peace, of the firm of W. K. and C. Peace, of Eagle Works, Sheffield, in the county of York, Manufacturer, for the invention of "An improvement in canisters for hermetically sealing paints and other substances."—A communication from abroad by Frederick L. Whiton and John W. Masury, of New York, in the United States of America.

1790. To Mark Mason, of the city of Manchester, Engineer, for the invention of "Improvements in machinery for printing, and in apparatus connected therewith."

1791. To William Henry Tooth, of 3, Spring Terrace, Wandsworth Road, in the county of Surrey, Engineer, for the invention of "Improvements in machinery or apparatus for the manufacture of iron or steel."

1793. To John Petrie the younger, of Rochdale, in the county of Lancaster, Machinist, for the invention of "Improvements in machinery or apparatus for washing wool."

1794. To Joseph Henry Phipson, of Birmingham, in the county of Warwick, Manufacturer, and William Arthur Watson, of Birmingham aforesaid, Architect, for the invention of "A new or improved lubricator for lubricating shafts and other articles requiring lubrication."

1795. To William Henry Maxwell Blews, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "A new or improved regulator for gas burners."

1796. And to Edward Dowling, of Little Queen Street, Holborn, in the county of Middlesex, Scale Maker, for the invention of "Improvements in rosettes or ornaments applicable to harness, and for other purposes."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of August, 1859.

1797. To Thomas Lister, of Sheepbridge, in the county of Derby, Engineer, for the invention of "An improved sanatory watercloset."

1798. To James Horton, of Handsworth, in the county of Stafford, Brewer, for the invention of "A new or improved water gauge for steam boilers."

1799. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in mills for grinding coffee, corn, and other substances." — A communication by Joseph Poole Pirsson, residing in New York.

1801. And to Frederick Walton, of Haughton Dale, Denton, near Manchester, for the invention of "Improvements in the manufacture of ornamental fabrics, suitable for bookbinding and other uses, and in machines employed in such manufacture."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of August, 1859.

1803. To Edward Barker Gowland, of Brecknock Street, Camden Town, in the county of Middlesex, for the invention of "Improvements in pianofortes."

1804. To Edward Swainson, of Preston, in the county of Lancaster, Worsted Spinner and Manufacturer, for the invention of "Certain improvements in looms for weaving."

1804. To Nicholas Doran Maillard, of No. 18, York Street, Dublin, in Ireland, Gentleman, for the invention of "Improvements in compasses for indicating the course and time of ships at sea, without the use of needles or magnets."

1807. To Nathaniel Berry, of Paris, in the empire of France, Merchant, for the invention of "An improvement in the manufacture of knitted fabrics."—A communication from William Benjamin, residing in New York.

1809. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in billiard and bagatelle cues."—A communication from abroad by Jonathan H. Green, of Christiansburg, in the state of Iowa, United States of America.

1810. To Francis William Beaumont, of Clapham, in the county of Surrey, Civil, Mechanical, Mining, and Gas Engineer, and Surveyor, for the invention of "A hydraulic apparatus applicable to transmitting, regulating, and measuring the supply or flow of liquids."

1811. And to Warren Thompson, of No. 45, Essex Street, Strand, London, for the invention of "An improved printing telegraph."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of August, 1859.

1815. To Augustus Bryant Childs and Lemuel Dow Owen, of No. 192, Tottenham Court Road, London, in the county of Middlesex, Engineers, for the invention of "Improvements in machinery for cleaning grain and seeds from smut and other extraneous matter."

1816. To Alfred Theodore De Lisle, of No. 14, Addison Road, Kensington, in the county of Middlesex, Gentleman, for the invention of "Improvements in clarifying and decolorizing solutions of sugar and other liquids."

1817. To Edward Albert Scwerkrop, of Leith, in the county of Mid Lothian, Merchant, for the invention of "Improvements in reaping and mowing machines."—Partly a communication from abroad by Francois Leroy, of San Francisco.

1818. To Albert François Delannoy, of Paris, in the empire of France, Civil Engineer, for the invention of "Improvements in lubricating the axles or journals of wheels, also applicable to lubricating apparatus for the transmission of motion in general."

1819. To John Wellington Welch, of Manchester, in the county of Lancaster, Warp Sizer, for the invention of "Improvements in machinery or apparatus for sizing or dressing yarns or threads for weaving."

1820. And to Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W.C., for the invention of "Improvements in machinery or apparatus for manufacturing chenille."—A communication from abroad by Jean Baptiste Mallion, Merchant, residing at Saint Chamond, département de la Loire, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 6th day of August, 1859.

1821. To Joseph Weston, of Fenton, in the county of Stafford, Druggist, for the invention of "Improvements in breaks for railway carriages, and in the method of applying the same, and in conveying signals from one part to another of the same train, parts of which are applicable to breaks for other purposes."

1823. To Henry Liddle, of Middleton, in the county of Lancaster, Manufacturer, for the invention of "Improvements in machinery or apparatus for polishing yarns or threads."

1829. To John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for steering ships, applicable also in all cases where a rotatory or partial rotatory motion is required."—A communication from abroad by Messrs. François Augustin Harel and Michel Boniere the younger, both of Paris, in the empire of France.

1831. To Barnet Solomon Cohen, of Magdalen Row, Great Prescot Street, in the county of Middlesex, for the invention of "Improvements in ever-pointed pencils."

1833. And to Thomas Blinkhorn and Richard Blinkhorn, both of the New Road, Spalding, in the county of Lincoln, Engineers, for the invention of "An improved composition for removing scale or fur from the interior of boilers, and also for preventing the formation of scale or fur therein."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of August, 1859.

1835. To Thomas Dunn, of the city of Manchester, Engineer, for the invention of "Improvement in machinery and apparatus for elevating and regulating the level and flow of liquids, part of which is applicable for propelling vessels."

1837. To Pierre François Rolland, of Hensies, in the province of the Hainaut, Belgium, Mechanic, for the invention of "A new electric telegraph."

1839. To Isaac Mitchell and Samuel Lister, of Bradford, in the county of York, Machine Makers and Repairers, for the invention of "An improvement in apparatus applicable to machinery for spinning fibrous materials."

1841. To John Brazer Babcock, of 35, Milk Street, Boston, in the United States of America, for the invention of "Improvements in bustles and skirts."—A communication from Handle N. Daggett, residing at Attleboro', Massachusets, United States of America.

1843. To John Dyer Bryant, of Rock, in the county of Cornwall, Merchant, for the invention of "Improved superphosphate of lime."

1845. To Benjamin Browne, of No. 52, King William Street, in the city of London, Civil Engineer and Patent Agent, for the invention of "Improvements in the manufacture of paints and pigments."—A communication from abroad by Francis Gybbon Spilsbury, of Louvain, in the kingdom of Belgium.

1847. And to Walter Mac Lellan, of Glasgow, in the county of Lanark, North Britain, Iron Merchant, for the invention of "Improvements in parts of the permanent way of railways."—A communication from abroad by John Gregory, of Lisbon, in the kingdom of Portugal, Engineer.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of August, 1859.

1849. To William Muir, of the Britannia Works, in the city of Manchester, Engineer, for the invention of "Improvements in machinery for communicating motion to foot lathes and other machines to be worked by treadles."

1851. To William King Westly, of Leeds, in the county of York, Machinist, for the invention of "Improved machinery for combing, heckling, and preparing to be spun flax and other fibrous substances."

1853. And to Alexander Shaw, of the firm of Alexander Shaw and Company, of the Earle's Field Works, Grantham, in the county of Lincoln, Leather Dressers and Fellmongers, and Glue and Parchment Manufacturers, for the invention of "Certain modes or methods of preparing sheep or other skins or pelts, or the linings thereof, and for raising nap on the same, and also for preparing the said skins for kid leather, and for enamelling and japanning the same."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of August, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

19th August, 1859.

506. John Dale, of Cornbrook, in Manchester and the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in concen-

trating caustic alkalis, and in applying a product therefrom to the purpose of obtaining motive power and to other purposes."—Dated 24th February, 1859.

513. William McNaught, of Manchester, in the county of Lancaster, Engineer, for an invention of "Certain improvements in steam engines particularly applicable to compound steam engines."—Dated 25th February, 1859.

523. Edward Gatwood, of Great George Street, Westminster, in the county of Middlesex, Carriage Builder, for an invention of "Improvements in buffing traction and bearing springs applicable to railway carriages and locomotive engines."—Dated 28th February, 1859.

531. Collinson Hall and Collinson Hall the Younger, of Navestock, in the county of Essex, Agriculturalists, for an invention of "Improvements in steam agricultural machinery."—Dated 28th February, 1859.

559. James Newcomb, of the city of Bristol, Engineer, and Joseph Gwyre Lovell, of the city of Bristol, Merchant, for an invention of "Improvements in obtaining and applying motive power, especially adapted amongst other purposes to the propelling of ships and vessels." — Dated 2nd March, 1859.

631. John Cunliffe and Frederick Piggott, both of the city of Manchester, Manufacturers, and George Mallinson, of Salford, in the county of Lancaster, Pattern Designer, for an invention of "Improvements in the manufacture of ornamental woven fabrics."—Dated 12th March, 1859.

650. Charles Desurmont, of Seclin, France, Gentleman, and Charles Goudeau, of Alost, Belgium, Mechanical Engineer, for an invention of "Certain improvements in looms for weaving." —Dated 15th March, 1859.

673. Charles Garnett, of the firm of Peter and Charles Garnett, of Cleckheaton, in the county of York, Machine Makers, for an invention of "Improvements in machinery for ginning cotton and for cleaning cotton and certain other fibrous materials."—Dated 17th March, 1859.

758. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in ovens for baking bread and other substances."—A communication from abroad by Thomas Russell, of New York.—Dated 25th March, 1859.

810. Francis Morton, of James Street, Liverpool, in the county of Lancaster, Engineer, for an invention of "Improvements in the construction of fences, and the posts or pillars for the same, parts of which improvements are also applicable to the construction of gate posts or poles for telegraph purposes or for signal posts."—Dated 31st March, 1859.

812. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the construction of steam boiler and other furnaces."—A communication from abroad by Jonathan Amory, of Boston, in the United States of America.—Dated 31st March, 1859.

911. David Doig, of the city of Manchester, Engineer, for an invention of "Improvements in the construction of gas lamps."—A communication from abroad by William Gilbert Ginty, of Rio de Janeiro, in the empire of Brazil.—Dated 12th April, 1859.

1075. William McIntyre Cranston, of No. 11, New Broad Street, London, Agent, for an invention of "A grass-cutting machine."—A communication from abroad by Walter Abbot Wood, of Hoosick Falls, county of Rensselaer, state of New York, America.—Dated 29th April, 1859.

1201. Thomas Vicars, senior, Thomas Vicars, junior, and Thomas Ashmore, of Liverpool, Engineers, and James Smith, of the same place, in the county palatine of Lancaster, Baker, for an invention of "Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith."—Dated 13th May, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 17th August*, 1859, *inclusive.*)

15th August.

1936. Henry Burden, of the City of Troy, county of Rensselair, and state of New York, in the United States of America, for an invention of "Improvements in machinery or apparatus for manufacturing shoes for horses, mules, and other animals."—Dated 19th August, 1856.

17th August.

1931. Charles Marie Chouillou, Manufacturer, of Paris, in the French empire, for an invention of "Certain improvements in thinning or shaving tawed, tanned, or dressed skins." — Dated 18th August, 1856.

1950. Joseph Maudslay, of Lambeth, in the county of Surrey, Engineer, for an invention of "Improvements in steam-engines especially applicable to screw propulsion."—Dated 20th August, 1856.

1955. Thomas York, of Wolverhampton, in the county of Stafford, Engineer, for an invention of "A new or improved safety-valve and low water indicator for steam-boilers."—Dated 21st August, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 2nd August, 1859, and each bearing that date.

No. 24,914. PAUL FRANCIS AERTS, of London, England, for an "Improvement in axle-boxes for lubricating railway rolling stock, &c."—Patented in England 19th March, 1858.

"I claim the wheel *a* fixed on the end of the journal in railway rolling stock, raising water by centrifugal force, and the divergent *c* for conducting the water over the greased surface of the journal or moving parts of machinery, working in fixed bearings, when constructed and arranged, substantially as set forth."

No. 24,915. FREEBORN ADAMS, of Somerville, Mass., for an "Improvement in casting copper cylinders."

"I claim as a new article of manufacture a tube or cylinder cast out of copper, and free from blow holes and other similar defects, when produced as herein stated."

No. 24,916. JONAS BRADLEY AIKEN, of Manchester, N. H., for an "Improvement in knitting machines."

"I claim, 1st, the lever Q, grooved eccentrically to its fulcrum, applied in combination with the sliding loop regulator to adjust the same for different lengths of loop, substantially as herein specified. 2nd, the stop motion, consisting of the lever Y and its self-adjusting dog 11, the ring X with its pins 13, 13, or their equivalents, and the sliding bolt W, or its equivalent, carrying the slipper W^1, the whole combined, applied, and operating, substantially as herein described."

No. 24,917. WM. BAKER, of East Templeton, Mass., for an "Improved tool for riving hoops."

"I claim a hoop riving tool formed of a stock (A), provided with suitable guiding surfaces (a, a^1), and differently arranged or set stock faces (b, b^1), and knives (D, D^1), for operation, essentially as herein set forth."

No. 24,918. THOS. C. BALL, of Keene, N. H., for an "Improvement in the mode of hanging brake rubbers."

"I claim the combination of the brake head and spring, as above described; also, the arrangement of the brake beam F, Fig. 1, so as to allow its independent action upon brake head and spring 'A' and 'D,' Fig. 1, as described."

No. 24,919. THOS. L. BALL, of New York, N. Y., for an "Improved show case."

"I claim the construction of a case or box divided into compartments, each box having a sliding cover, arranged as set forth, in combination with the spring covers G and compartments F, constituting a new article of manufacture."

No. 24,920. WM. T. BARNES, of Buffalo, N. Y., for an "Improvement in apparatus for condensing coal oils."

"I claim, 1st, the employment of the tube K, the lower extremity of which is provided with tubular arms L, L, the same being made to revolve and being used in connection with a tank partially filled with water and a conducting pipe F, substantially in the manner and for the purpose herein set forth. 2nd, the arrangement and employment of the tanks A, B, C, constructed and used substantially in the manner herein specified, and for the purpose set forth."

No. 24,921. WM. T. BARNES, of Buffalo, N. Y., for an "Improved apparatus for generating coal oils."

"I claim, 1st, the arrangement of the levers L, K, and J, and rod I, whether operated by a cam or otherwise, for the purpose of forming an automatic dust clearer to coal-oil retorts, as is herein substantially set forth. 2nd, the employment of the spiral or screw flanges on the head of the retort for pushing the material away from the hole in the journal, as herein fully described."

No. 24,922. DANIEL BASSETT, of White Water, Wis., for an "Improvement in mills for crushing sugar cane."

"I claim, 1, the arrangement and combination of the tongue and groove rollers A, B, wiper F, and 'stripper,' as and for the purpose herein shown and described. 2, the 'stripper,' when composed of spring caps and a movable can G, and when arranged and combined with rollers A, B, substantially as and for the purpose herein shown and described."

No. 24,923. ALBERT BETTELEY, of Boston, Mass., for an "Improvement in elevators for warehouses, factories, mines, &c."

"I claim, first, the combination of an automatic safety shipper and brake apparatus with an elevator, substantially as described, arranged to operate only to prevent an elevation of the car beyond a fixed limit. Second, the combination of the weight (q), flexible rope or chain (c), with the shipping and brake controlling mechanism, substantially in the manner and for the purpose set forth."

No. 24,924. CYRUS C. BISBEE, of Rochester, N.Y., for an "Improved spring bed bottom."

"I claim the arrangement herein described of the slats D, belts Y, rollers J, cords R and R^1, and springs P and P^1, in the construction of spring bed bottoms. I also claim the unequal cams B and B^1, for the more perfect automatic adjustment of spring beds."

No. 24,925. ABRAHAM BOWER, of Pekin, Ill., for an "Improvement in machine for raising water &c."

"I claim the combination of the lazy tongs G, the slide trough J, and valvular bucket H, arranged for joint operation, substantially as and for the purpose set forth."

No. 24,926. SAML. BOYD, of Brooklyn, N.Y., for an "Improvement in manufacturing hoes."

"I claim the employment of an anvil, having an inclined face (a), groove or recess (c), and socket D, in combination with a mandrel F, as herein shown and described, whereby the bevel or 'set' of the blade and eye, and the form, thickness, and bevel of the interior of the socket or eye, will be uniformly and simultaneously produced, as set forth."

No. 24,927. JAMES R. BROWN, of Boston, Mass., for an "Improved pipe tongs."

"I claim the arrangement and application of the serrated surface or rack h, the spring F, and toothed stopper D, with respect to the two jaw levers A, B, the clamp nut E, and the screw-pin C, applied to the toothed jaw lever A, substantially as described."

No. 24,928. MOSES BUCKLIN, of Grafton, N. H., for an "Improved draining machine."

"I claim, 1st, the arrangement of the platform E, with the cutter blade F, and plow share G, for the purpose of cutting underground drains, substantially in the manner specified. 2nd, arranging the blade F, with a sloping, cutting edge d, so that the same more readily passes over obstructions which may come in its way, substantially as described. 3rd, the arrangement and combination of the platform E, the cutter blade F, and the plow share G, with the adjustable bars D and wheels B, to operate substantially in the manner and for the purpose herein described."

No. 24,929. JOHN F. GALLEY, of New York, N.Y. for an "Improved ironing table."

"I claim, 1st, the treadle C, the fulcrum arm D, the upright shaft E, the side jaws 6 and 7, the spiral spring 8

and the thumbscrew 9, when arranged and combined, substantially as described, and for the purposes set forth. 2nd, the hollow screw collar F, on the shaft E, constructed and applied, substantially as described, and for the purposes set forth."

No. 24,930. Thos. B. Garside, of Danville, for an "Improved portable field fence."

"I claim the combination of the long main posts *d*, short auxilliary posts *e*, and triangular pivoted brace *a*, *b*, or its equivalent, when arranged in the relation to one another, and to operate, substantially as and for the purpose set forth."

No. 24,931. Frederick Augustus Genth, of Philadelphia, Pa., for an "Improvement in manufacture of phosphoric acids and phosphates."

"I claim the process of manufacturing phosphoric acid or phosphates by treating the phosphates of iron, alumina, or lead, substantially as above described, by means of sulphuric acid, or its equivalent."

No. 24,932. James Gilfillan, of Hartford, Conn., for an "Improvement in gas burners."

"I claim the improvement in gas burners herein described consisting of a central exit tube, supplied with apertures surrounded by the gas chamber, having its discharge regulated by the mercury cap, upper end of said pipe being furnished with a nozzle or jet burner, the whole constructed and operating, substantially as set forth."

No. 24,933. Chas. F. Greeley, of East Kingston, N.H., for an "Improved cloth holder, for washing crockery, &c."

"I claim the within described washing device, constructed as and for the purpose set forth."

No. 24,934. W. S. Hall, of Quincy, Mass., for an "Improved churn."

"I claim the combination of the frame of stationary transverse bars, with the rotary hollow shaft and hollow arms thereto attached, for the introduction of air and the solid arms attached to the shaft, as substantially described."

No. 24,935. Pierre Jean Hardy, of Boston, Mass., for an "Improved recumbent chair."

"I claim the peculiar construction and arrangement of mechanism herein described, for actuating the back and leg rest, whereby they can not only be brought from vertical into horizontal or nearly horizontal position, so as to constitute a couch, but be maintained in such or any intermediate positions that may be desirable, such mechanism consisting of the levers *c*, *c*, and *d*, *d*, connected with each other, the back and leg rest, or leg rest frame *f*, respectively, in manner as set forth. And in combination with the said construction and arrangement of mechanism for actuating the said back and leg rest, I claim the arrangement of the locking contrivance (constructed and applied as described,) whereby the back and leg rest, when placed in any desirable position, may be firmly secured in such positions, or be released therefrom, as circumstances may require."

No. 24,936. Albert V. Hill, of Hinsdale, N.Y., for an "Improvement in breech-loading fire-arms."

"I claim the combination of the bed piece, breech pin, and connecting rod, which, in connection, forms the sliding process, and operating as above described."

No. 24,937. Hiram W. Hayden, of Waterbury, Conn., for an "Improvement in sewing machines."

"I claim, first, the attachment of the looping hook I, to an arm I^1, or its equivalent, which has a revolving motion, and also a vibrating motion, in a direction transverse to its revolution, and operates substantially as herein described, in combination with a bobbin K, arranged relatively to it, substantially in the manner herein set forth. Second, the stationary cam J, applied in combination with the revolving arm I, which carries the looping hook and with a spring R, and sleeve Q, or their equivalent for holding the said arm in contact with the said cam, to produce the vibrating motion of the said hook, substantially as herein described. Third, the combination of the stationary cam J and the fixed portion L of the bobbin holder, substantially as herein described. Fourth, the looping hook, made and fitted to turn in the revolving and vibrating arm I, as described, and provided with a pin, or projection *h*, operating in combination with a fixed stop *m*, substantially as and for the purpose herein set forth. Fifth, the extension of the mandrel E, forward of the rotating hook, as herein described, for the purpose of carrying the spring R, and a sleeve Q, or it equivalent, by which the revolving and vibrating arm I^1 which carries the hook, is kept in contact with the cam from which it derives its vibrating motion. Sixth, the adjustable pin *r*, applied and operating substantially as herein described, in combination with the revolving and vibrating looping hook and the bobbin, for the purpose set forth. Seventh, feeding the cloth or material to be sewed, by means of one or more smooth-faced angular projections 14, 14, on the feed bar, or its equivalent, and one or more ratchet like wheels *y*, *y*, attached to the presser, said wheels being arranged with the lowest portions of their peripheries above the bottom of the presser foot, and the said projections pressing the material into one notch at a time of each wheel, and operating in combination therewith, substantially as herein described."

No. 24,938. Edwd. L. Keeler, of Pittsburgh, Pa., for an "Improvement in car couplings."

"I claim the combination of a beveled coupling head *c*, shaped substantially as described, with a spring *e*, as a coupling for railroad cars, constructed and arranged in the manner herein-before described."

No. 24,939. David Kelsey, of Harper's Ferry, Va., for an "Improvement in sewing machines."

"I claim the horned eccentric or cam L, applied substantially as herein described, in combination with the vibrating pressure pad E, and the feeding dog sliding on the stem of said pad, and operated for the purpose herein specified by means of a stud *l* or its equivalent attached to the needle bar."

No. 24,940. Benjn. F. Killam, of Braintree, Vt., for an "Improvement in tooth keys."

"I claim the hollow fulcrum as herein described."

No. 24,941. Obed H. King, of Salem, Iowa, for an "Improvement in harvesters."

"I claim the arrangement and combination of the circular platform A, rake B, rod C, guide way E, E^1, endless chain or belt G, wheels F, F, and pin H, constructed, arranged, and operating together, substantially as and for the purposes set forth."

No. 24,942. S. C. Lewis and F. P. Pfleghar, of Whitneyville, Conn., for an "Improvement in revolving fire-arms."

"We claim, 1st, the centre pin E, F, made in two pieces, one of which is fitted to the rotating cylinder and to a rotating recoil shield with fins *b*, *b*, and has applied to it within the cylinder a spring *a*, and the other of which is fitted to slide and turn in the front part of the frame, and is capable of being locked to the frame, substantially as herein described. 2nd, the dog *n*, constructed and applied as described, to constitute its own spring, and operating transversely to the hammer in combination with a peripherical ratchet *l*, *l*, substantially as and for the purpose herein set forth. 3rd, the stop *p*, constructed with a tooth *p*, in its front, and a projection *u* on its back, and applied and operating in combination with a spring *v*, a ring of notches *m*, *m*, on the rear of the recoil shield or cylinder, and a tooth u^1 on the tumbler substantially as herein described. 4th, the recoil shield, constructed with a peripherical ratchet *l*, *l*, a ring of notches *m*, *m*, a central bore *j*, and slots *k*, *k*, substantially as and for the purpose herein specified."

No. 24,943. Henry A. Lincoln and Hebron T. Douglass, of Newhaven, Conn., for an "Improvement in brakes for railroad cars."

"We claim, as of our invention the combined arrangement herein described of brake shoes, truck wheels, equalizing beams and springs, the former being outside of the wheels, and so supported as to rise and fall practically with the wheels, while the equalizing beams support the springs, and the springs are arranged between the wheels, and transfer the weight to be carried to the equalizing beams, the several parts acting in combination, substantially in the manner and for the purposes specified."

No. 24,944. Stephen A. Lindsay, of Unionville, Md., for an "Improvement in harvesters."

"What I claim, is, the combination of the hinged guide piece S, with the hinged platform T, for the purpose of retaining the rake and the reels in their proper relative positions towards the platform, when the latter is raised or lowered substantially in the manner herein described. I also claim the combination of the bar 3, shaft 5, and the hinged bar 7, with the movable frame of the machine, and the finger bar U, for the purpose of raising and lowering the latter without interfering with the free movements of the platform on its hinges substantially in the manner herein described."

No. 24,945. Frederick Meyer, of Naperville, Ill., for an "Improvement in machines for cutting and binding grain."

"I claim, 1st, the combination of the movable gates, the sliding divider and the movable platform as described. 2nd, the construction of the tongs, and the mode of operating them as described. 3rd, the tucker H, for the purpose of fastening the free end of the band, substantially as above described."

No. 24,946. Warren P. Miller, of Marysville, Cal., for an "Improved machine for excavating and grading."

"I claim the use of the cylinders or wheels (K, K), for the purpose of depressing the chains (*h*, *h*), so as to give to the excavators (*i*, *i*) a proper inclination, and thereby facilitate the feeding and working of the same. I claim the construction and arranging of the excavators attached to endless chains, worked in the manner above described, to wit, to fill and discharge while traversing from one tumbler to the other, on the lower plane (from A to B), for the use and purpose of excavating and grading rail and turnpike roads, substantially as set forth."

No. 24,947. John A. Montgomery, of Williamsport, Pa., for an "Improvement in journal boxes."

"What I claim, is, a journal box, formed of a sphere, or segment of a sphere, fitting into a cup, or concave, and prevented from revolving with the shaft, or journal, by a pin and slot, as described, or their equivalent."

No. 24,948. Jarvis T. Mudge, of Dayton, O., for an "Improved washing machine."

"I claim arming the side of the tub, and the plunger F, with round headed knobs, or pins, to act on the clothes, substantially as described, and allow the water to escape freely as it is pressed out of the clothes being washed."

No. 24,949. Edmund T. D. Myers and Charles F. Thomas, of Washington, D. C., for an "Improved apparatus for tapping water or gas mains."

"We claim the method of drilling, tapping, and inserting stop, or other cocks, into cast-iron water or gas mains, or supply pipes, in the manner as set forth, or other manner substantially the same."

No. 24,950. Joseph R. Palmenbery, of New York, N. Y., for an "Improved branch holder for bonnet stands."

"I claim, as a new article of manufacture, a branch holder, made and constructed in the manner substantially as described."

No. 24,951. Henry Pemberton, of East Tarentum, Pa., for an "Improvement in manufacture of common salt."

"I claim the combination of processes herein-before described for the purification of common salt, to wit: washing common salt procured by the evaporation of salt water containing chloride of calcium, and other impurities, with a saturated solution of chloride of sodium, or brine, rendered pure by the use of chemical reagents, substantially in the manner described; and the repeated use for that purpose of the same brine, for an indefinite number of operations, by treating it, after each process of washing the salt with suitable chemical agents, whereby it is restored to its original purity."

No. 24,952. Henry Pemberton, of East Tarentum, Pa., for an "Improvement in refining coal oils."

"I claim recovering the sulphuric acid used from the residuum resulting from the process of the purification of coal oils with sulphuric acid, by treating the residuum with water heated, or caused to boil by steam, or otherwise, substantially in the manner herein-before described."

No. 24,953. John G. Perry, of Kingston, R. I., for an "Improved meat cutter."

"I claim combining the revolving knives with a cylinder or block, having studs upon its surface, substantially as herein set forth."

No. 24,954. Phinehas Pomeroy and J. G. Allen, of Middletown, O., for an "Improvement in machinery for making roofing cement."

"What we do claim, is, the employment of the double walled tank (C), in combination with the hollow metallic cylinders (B), and valves (*p*), all being constructed and arranged to operate, substantially as and for the purpose set forth."

No. 24,955. Jesse Pruette, of Aurora, Ill., for an "Improvement in carriage hubs."

"What I claim, is, the enlargement C upon box B, having an annular flange *a*, for the purposes specified, in combination with the nut F, and its flange *b*, when the same are both arranged, substantially as and for the purposes herein set forth."

No. 24,956. Lyman P. Rood, of Deposit, N. Y., for an "Improved machine for turning hollow-ware."

"I claim the combination of the rotating mandrel B, with the adjustable slide F, provided with the tool rest G, and cutter H, arranged as and for the purpose set forth."

No. 24,957. Andrew Shogren, of Chicago, Ill., for an "Improvement in sickle guard for harvesters."

"What I claim, is, the cutter guard C, constructed in the manner described, in combination with the guard socket B, and wedge-shaped bolt D, substantially as described."

No. 24,958. Daniel C. Smith, of Tecumseh, Mich., for an "Improvement in corn huskers."

"What I claim and desire to secure by Letters Patent, is, the above-described improvement in corn huskers, consisting of the combination of forceps A, lever B, stop C, spring E, and post G, in the manner and for the purposes specified. Secondly, I claim the combination with the forceps A of the slotted post M, nut N, and fork O, in the manner and for the purposes specified."

No. 24,959. John S. Snider, of Lancaster, O., for an "Improvement in seeding ploughs."

"I claim the arrangement of the swinging frame F, wheel W, crank shaft A, with the hopper H and mould board M, together with the devices connecting said parts, so as to operate as herein set forth."

No. 24,960. Geo. A. Stanley, of Cleveland, O., for an "Improvement in machinery for moulding candles."

"I claim, 1st, the moving of the moulds any distance, lengthwise of the candles, to detach the moulds from the candles formed in them, and to withdraw the moulds from the candles, and place the jaws of the clutches around them, 2nd, moving the moulds by the weight of the moulds and boxes containing the moulds, to adjust the jaws of the clutches to the candles, and attach the clutches firmly to the candles, so that they may be raised at the same time at which the moulds are returned empty to their first position."

No. 24,961. Richd. A. Stewart, of St. Bernard Parish, La., for an "Improvement in apparatus for defecating sugar."

"I claim the combination of the retort, the vacuum cylinder, and the receiver, substantially in the manner and for the purpose herein set forth, and these I also claim, in combination with the steam boiler, substantially operating as described, and for the purpose set forth."

No. 24,962. H. W. Stillmann, of Port Washington, Wis., for an "Improvement in brick machines."

"I claim the combination of the revolving moulds D feeder G, and plate I, when arranged and operated in the manner described, for the purpose specified."

No. 24,963. Saml. Taggart, of Indianopolis, Ind., for an "Improvement in flour packers."

"What I claim is, first, the oil pot H, H, with cap G^2, G^2, when operated in connection with the clutch wheel G and shaft D. Second, the cam V, in combination with the barrel lifter T, T, when constructed and operated as and for the purposes set forth. Third, the combination and arrangement of the friction brake Q, rod K, walking beam C, packing shaft D, and barrel lifter T, T, when the whole is combined and operated as and for the purposes set forth."

No. 24,964. N. G. Thom, of Cincinnati, O., for an "Improved machine for pointing and threading wood screws."

"What I do claim as a part of my invention is, the combination of a rotating head, containing two or more spindles or blank holders, revolving round a central point, with an intermittent motion, with an apparatus for pointing and threading screw blanks, so arranged and operated that, while one blank is being pointed and undergoing the other operations necessary thereto, another blank is being threaded by another part of the same machine. 2nd, I claim, in combination with an apparatus for pointing and threading screw blanks, simultaneously, or nearly so, by the same machine, the apparatus so constructed and operated that while the spindles are rotated, or changing positions, the threading cam, or other device for operating the threading tool and its connections remain stationary, and when the motion of the spindles around the central point is arrested, the other part and all necessary parts of the machine, recommence motion. 3rd, I claim the spring brake 'C,' so constructed and operated that when the spring is being depressed, to withdraw it from the notch in the plate S, it acts as a brake upon the periphery of the plate T, to arrest its motion, and the parts connected with it at the same time relieving the plate S, and allowing it to revolve with the spindles. 4th, I claim the quadrant-shaped grooved arm on the pointing tool stock, which, in connection with the spring i^1, or its equivalent, receives the blank from the hopper and conveys it to the grippers, and supports it while being pointed, substantially as described. 5th, in combination with the quadrant, I claim the reciprocating motion of the hopper for the purpose of depositing the blanks in the quadrant to be conveyed to the grippers. 6th, I claim the triangular-grooved cam J, J^1, in combination with the hopper L, so constructed that when moved in one direction by the action of the tool stock or otherwise, the hopper is depressed, and when moved in a contrary direction the hopper is elevated, for the purpose of depositing the blanks in the quadrant, or other mechanical device for receiving them. 7th, in combination with an apparatus for threading and pointing screw blanks by the same machine, I claim the worm F, when combined with the gears *b*, *c*, and *e*, or equivalent arrangement, by which the revolution of the worm causes the spindles to rotate round a central point, substantially as described. 8th, I claim the rocking feed lever o^1, o^{11}, o^{111}, constructed substantially as described, for the purpose of regulating the depth of cut of the threading tool. 9th, I claim the ratchet *s* and revolving cam *r*, when combined with the feed lever, substantially as described, for the purpose of raising the cutting tool out of the thread in its backward motion, and increasing the depth of cut of the threading tool. 10th, in combination with the rod for opening the grippers, I claim the movable nut n^1, which acts upon the thread in the end of the rod *z*, to withdraw the cone and release the screw. 11th, I claim the traversing arm e^1 in combination with the spring lever f^1, or its equivalent, for the purpose of removing the screw from the grippers when released. 12th, I claim the sliding cam w^{11}, in combination with the threading cam, for the purpose of removing the screw from the grippers and releasing it, substantially as described. 13th, I claim the arm m^{11} on the threading tool stock, in combination with the threading tool, and rod n^{11}, or its equivalent, for the purpose of giving the proper form to the thread and curvilinear shape to the point of the screw. 14th, in combination with the spindles or blank holders, I claim the gears f^{11}, g^{11}, h^{11}, in the spindles for the purpose of equalizing their motion, and causing them to revolve round the shaft *c* while changing their position, whether the driving belt rests or acts one or both the spindles."

No. 24,965. Horace Vaughn, of Providence, R.I.[1] and Wm. Hutton, of Baltimore, Md., assignors to W. Vaughn aforesaid, for an "Improvement in lubricating compounds."

"We claim 'the cooling compound solution,' as herein fully described."

No. 24,966. Allen Wilson and Geo. C. Fletcher, of St. Thomas, Mo., for an "Improvement in hemp brakes."

"We claim the arrangement and combination of the plates M, M^1, N, N^1, O, O^1, each pair of plates M, M^1, N, N^1, moving in opposite directions through the medium of double cranks upon shafts I, L, as and for the purposes herein shown and described."

No. 24,967. D. J. Wilcoxson, of Milan, O., for an "Improved ship's hoisting apparatus."

"What I claim is, first, arranging the pawl and ratchet, substantially as described, so as to allow the hoisting shaft to turn backward in lowering without disconnecting the pawl from the ratchet. Second, forming the connection between a friction pulley and hoisting shaft by means of a pawl and ratchet, substantially, so that the friction pulley is only in connection with the shaft while lowering. Third, the combination of the friction pulley, friction brake, and friction lever, arranged substantially as described, so that by the movement of the brake the friction pulley is released to revolve with the shaft and power of the brake simultaneously applied to the pulley, to regulate the velocity of the shaft in lowering. Fourth, combination of the vibrating pawl plates (G), cam levers (H), and the eccentrics arranged as described, to give motion to the hoisting shaft."

No. 24,968. Wm. F. Warburton, of Philadelphia, Pa., for an "Improvement in the manufacture of hats."

"I claim the process herein described of perforating the bodies of hats, by means of heated metal points, for the purpose specified."

No. 24,969. Augustus Watson, of Walnut Run, O., for an "Improvement in mole ploughs."

"What I claim is, suspending the coulter C to the lever D, and guiding it between rollers, so that it may be raised or lowered independently of the beam or frame of the plow, substantially in the manner and for the purpose herein described. I also claim making one or both of the beam plates G, H, adjustable for the purpose of adjusting the position of the coulter, so as to give it the proper tip or inclination, substantially in the manner and for the purpose described. I also claim, in combination with the beam plates and the coulter C, the grooved guide rollers *f*, *g*, for the purpose of guiding the coulter in its vertical motion, and preventing any side or twisting motion of the same, substantially as herein described. I also claim, in connection with the coulter and mole, the pivoted tongue *p*, substantially in the manner and for the purpose herein described. I also claim, in combination with the coulter and mole, the link P, whose ends are secured by a screw sleeve, for the purpose herein described."

No. 24,970. Robt. D. Dwyer, of New York, N.Y., assignor to Abraham B. Sands and Daniel Sands, of same place, for an "Improvement in manufacture of lint."

"I claim the new article of manufacture herein described, being surgeons' lint, produced directly from new flax, in the manner substantially as set forth."

No. 24,971. John G. Ernst, of York, Pa., assignor to himself and S. R. Slaymaker, of same place, for an "Improved machine for bending plow handles."

"I claim, 1st, the employment or use of the form block H, fitted in the frame A, with the chain R attached, with or without the weight *c*×, in connection with the roller P, and the toothed segments O, O, and stop N, the latter being attached to the bed K in carriage B, the whole being arranged to operate as and for the purpose set forth. 2nd, the arrangement of the lever *h*, connected with clutch *g*, the connecting bar *j*, and the lever *k*, attached to shaft G in connection with the rod h^1, and lever or button i^1, substantially as shown, whereby the operation of the machine, so far as the gigging-back motion is concerned, is rendered automatic throughout. 3rd, the movable rack C, when adjusted and arranged substantially as shown with the wheel F^1, for the purpose of stopping the feed or forward movement of the carriage B."

No. 24,972. James A. Hamer, of Reading, Pa., assignor to himself and Norris Maris, of Kimberton, Pa., for an "Improvement in brick moulds."

"I claim, first, the construction, combination, and arrangement of the operating parts of the brick mold, substantially as set forth, for the purpose described. Second, the combination of the sides and partitions of the mold, operating substantially as and for the purpose described. Third, the combination of the levers D, D, with the arms F, F, and pins J, J, for operating the sides and partitions of the mold, as and for the purpose set forth."

No. 24,973. Geo. L. Jencks, of Providence, R. I., assignor to himself, Geo. Kendall, and John Hendrick, of same place, for an "Improvement in sewing machines."

"I claim, 1st, the combination in a single-thread sewing machine of a perforating barbed needle, which is arranged obliquely to the feed movement of the cloth or material being sewed with a pair of nippers, or other equivalent device, which will, as the inclined needle is operating to assist in forming the stitch, retain and present the thread to the needle in a manner to allow the necessary loop to be formed, shortened, and drawn into or tight on the cloth, substantially as and for the purposes set forth. 2nd, the combination with

a barbed needle of the spring nippers, thread guide, and adjusting nipper closing bracket, when constructed, arranged, and operating substantially as and for the purposes set forth."

No. 24,974. DANFORTH JOHNSON, of Chicago, Ill., assignor to Benjn. B. Worden and Wm. Cadwell, of same place, for an "Improved clothes dryer."

"I claim the employment of flexible braces H, H, in combination with the freely sliding collar E on the spindle A, for the purpose herein specified."

No. 24,975. WM. JOHNSON, of Milwaukie, Wis., assignor to himself and Eibert Schumacher, of same place, for an "Improvement in bank locks."

"I claim, 1st, operating the regulator wheels or guard plates by the screw pins, which are susceptible of being changed in the holes of the plates, and in relation to each other, as herein set forth. 2nd, I claim the tapered indicators, stem, and beveled plate of the stem fitting into the tapered recesses, as and for the purposes set forth. 3rd, in combination with a series of regulator wheels or guard plates, operated as described, I claim the means for indicating the position of such plates, constructed and arranged as set forth. 4th, I claim the cock wheel, or toothed disk, in combination with the tumbler and the regulator wheels or guard plates, as described."

No. 24,976. ROBT. POOLE, of Baltimore, Md., assignor to himself and German H. Hunt, of same place, for an "Improvement in casting chilled plates."

"What I claim, is, making the chill for casting plates in sections, when said sections are secured to a bed plate in such a manner as to leave spaces between them, which are filled with sand or other yielding material, substantially in the manner and for the purpose described."

No. 24,977. JOHN B. POWELL, of Philadelphia, Pa., assignor to himself and Geo. B. Frick, of same place, for an "Improved machine for winding up clocks."

"Without confining myself to any specific arrangement of parts, I claim as my invention, and desire to secure by Letters Patent, the spring lever D, spring pawl or catch C, and ratchet wheel B, with the supplementary lever H, and permanent pin *e*, or their equivalents, when applied substantially in the manner set forth, to the winding up of clocks or other machines in which a spring or weight is used as a prime mover."

RE-ISSUES.

JOHN FAIRCLOUGH, of Louisville, Ky., for an "Improvement in balancing millstones." — Patented 21st December, 1858. — Re-issued 2nd August, 1859.

"I claim the employment or use of weights *i*, placed within boxes or recesses in the back of the stone, and arranged substantially as described, so that they may be adjusted vertically and more or less be used in each box or recess, to admit of the balancing of the stone or runner, both while in motion and at rest."

JAHAZIAH S. KING, of Raynham, Mass., for an "Improved nail machine."—Patented 20th October, 1857.—Re-issued 2nd August, 1859.

"I claim making cut nails in such a manner that each nail will be seized the instant after it is cut from the nail plate, and be compressively operated upon at the point thereof in the manner as herein specified, to bring the flat point of said nail to an equal-sided sharp point, or to substantially the same character of point that is ordinarily given to wrought nails."

HENRY E. PIERCE, of Charlemont, Mass., for an "Improved machine for matting the ends of match blocks."— Patented 10th January, 1854. — Re-issued 2nd August, 1859.

"I claim matting the ends of match blocks, by pressure of a roller or rollers, for the purpose set forth. And in this claim I wish to be understood that I do not confine myself to the precise arrangements of the parts herein described, but shall vary them at pleasure, while I attain the same ends by means substantially the same."

STEPHEN H. FIFT, of Morrisville, Vt., for an "Improved clothes dryer."—Patented 20th July, 1858. —Re-issued 2nd August, 1858.

"I claim the combination of the slotted perforated hub B, and slotted bored cap hub C, with the arms D, and braces E, connected with the hubs by wires as described, and the arrangement the same with the shaft A, collar F, and ratchet catch G, as specified."

GEORGE WATT, of Richmond, Va., for an "Improvement in ploughs."—Patented 9th February, 1858.—Re-issued 2nd August, 1859.

"I claim constructing mould board and land side of cylindrical surfaces of equal diameters intersecting along the cutting edge of the plow, in combination with the standard S, curving landward from the top of the mould board to a position nearly over the base of the landside, as herein set forth."

ADDITIONAL IMPROVEMENT.

GEORGE WATT, of Richmond, Va., for an "Improvement in plows." — Patented 9th February, 1858.—Additional improvement, dated 2nd August, 1859.

"I claim the combination of the eccentric roller *r*, beam B, notches *i*, and cuff *f*, substantially as set forth."

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B. WOODCROFT.

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THE

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No. 588. TUESDAY, AUGUST 23, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

898. BENJAMIN BAUGH, Manager of Thomas Clutton Salt's Enamel Works, Bradford Street, Birmingham, in the county of Warwick, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Certain improved arrangements for working fly presses by steam, water, or other power."

904. And ALFRED BOWER, of Liverpool, in the county of Lancaster, Cotton Broker, has given the like notice in respect of the invention of "Improvements in or applicable to the keels of navigable vessels."

905. And WILLIAM ROWAN, of the firm of John Rowan and Sons, of Belfast, in the county of Antrim, Engineers, has given the like notice in respect of the invention of "Improvements in spinning flax, hemp, and other fibrous materials."

906. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in candle moulds."—A communication from Auguste Godchaux, residing at Paris.

907. WILLIAM SOUTHERN CLARK, of Aberdare, in the county of Glamorgan, Mining Engineer, has given the like notice in respect of the invention of "Improved means of loading ships or vessels with coal, and of separating or removing small coal therefrom."

909. And JOHN MARLAND, of Southport, in the county of Lancaster, has given the like notice in respect of the invention of "An improvement in the manufacture of cop tubes."

As set forth in their respective petitions, all recorded in the said office on the 11th day of April, 1859.

925. And HEINRICH ECKHORN, of No. 24, Cranbourne Street, Leicester Square, in the county of Middlesex, and of Bieberich, in the Duchy of Nassau, Manufacturer of Lamps, has given the like notice in respect of the invention of "Improving and regulating the production of light in lamps, to which he gives the name of 'Universal Lamp Regulator.'"

929. And ALFRED RICHARD JOHNSON, of Saint John's Wood, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An instrument for damping, severing, and affixing postage and other like stamps."

930. And JOHN AMBROSE COFFEY, of 4, Providence Row, Finsbury, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for heating liquids."

932. And JOHN LEE STEVENS, of No. 1, Fish Street Hill, in the city of London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the fire grates of locomotive, marine, and other furnaces."

As set forth in their respective petitions, all recorded in the said office on the 13th day of April, 1859.

936. And THOMAS BIRD, of the city of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in the application and use of a certain natural product or products in the manufacture of pickers for looms, drawing rollers for spinning machinery, cop tubes, and for steps and bushes generally where lubrication is required."

941. And EDWARD DOWLING, of Little Queen Street, Holborn, in the county of Middlesex, Scale Maker, has given the like notice in respect of the invention of "Improvements in parts of scales or weighing machines, and in balance weights used for those articles, which are also applicable for other purposes."

943. And Alexander McDougall, of Manchester, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improvements in coating metallic surfaces."

944. And Lindley John Higham, of New York, in the United States of America, Gentleman, now residing at Edmund Place, in the city of London, has given the like notice in respect of the invention of "Improvements in billiard tables."

As set forth in their respective petitions, all recorded in the said office on the 14th day of April, 1859.

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952. And Henry Barrow, of Birmingham, in the county of Warwick, Saddler, has given the like notice in respect of the invention of "A new or improved fastening for fastening trunks, boxes, and articles of dress, and for such other purposes as the same is or may be applicable to."

955. And Luke Collier, of Rochdale, in the county of Lancaster, Machine Maker for Confectionary, has given the like notice in respect of the invention of "An improved feeding apparatus applicable to grain, loaf sugar, drugs, or other similar materials."

958. And John Hamilton, of No. 8, Exchange Square, Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for regulating prime movers driven by water."

959. And Alfred Courage, of Bagillt, in the county of Flint, Smelter, has given the like notice in respect of the invention of "An improved method of obtaining the metallic particles contained in fumes or vapours from lead and other smelting works."

As set forth in their respective petitions, all recorded in the said office on the 16th day of April, 1859.

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968. And Robert Warry, Armourer Sergeant, of the 3rd Depot Battalion, Chatham, has given the like notice in respect of the invention of "Improvements in breech-loading ordnance and its projectiles."

969. And William Prosser, of No. 24, Dorset Place, Dorset Square, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in apparatus employed in the production of light."

971. And John Whitaker, of Bedford Mill Iron Works, near Leigh, in the county of Lancaster, Agricultural Machine Maker, has given the like notice in respect of the invention of "Improvements in mowing machines."

972. And Joseph Seaman, of Linslade, in the county of Buckingham, Engineer, has given the like notice in respect of the invention of "Improvements in agricultural implements for working or cultivating the soil."

977. And John Freer, of Rothley, in the county of Leicester, Agricultural Implement Maker, has given the like notice in respect of the invention of "Improvements in machines for planting grain and seed, and an improved seed feeder and meter for planting machines."

As set forth in their respective petitions, all recorded in the said office on the 18th day of April, 1859.

987. And Isaac Dutton, of Tipton, in the county of Stafford, Whitesmith, and Robert Martin, of Dudley, in the county of Worcester, Coke Merchant, and Thomas Phillips, of Dudley, aforesaid, Coke Merchant, have given the like notice in respect of the invention of "A new or improved machinery for preventing accidents in coal or other mines by the drawing of skips or cages over their pullies."

As set forth in their petition, recorded in the said office on the 19th day of April, 1859.

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994. And John Morris Johnson and Edmund Johnson, of Castle Street, Holborn, have given the like notice in respect of the invention of "Improvements in the production of ornamental surfaces suitable for advertisement tablets, plates for shop fronts, and for other uses."

995. And Alexander William Williamson, of University College, has given the like notice in respect of the invention of "Improvements in obtaining extracts from the liquorice root."

As set forth in their respective petitions, both recorded in the said office on the 20th day of April, 1859.

1007. And Edwin Lewthwaite, of Halifax, in the county of York, Watch and Clock Maker, and George Ambler, of Queen's Head, near Halifax aforesaid, Clock and Watch Maker, have given the like notice in respect of the invention of "Improvements in clocks, watches, chronometers, and other time keepers."

As set forth in their petition, recorded in the said office on the 21st day of April, 1859.

1031. And George Ward, of Blackburn, in the county of Lancaster, Gold Patent Thread Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for making healds."

As set forth in his petition, recorded in the said office on the 25th day of April, 1859.

1082. And William Winstanley and Joseph Kelly, of Liverpool, in the county of Lancaster, Hydraulic Engineers, have given the like notice in respect of the invention of "Improvements in pumps and gearing and appliances for working the same."

As set forth in their petition, recorded in the said office on the 30th day of April, 1859.

1134. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved steam gauge."—A communication from abroad by Anthoine Ernest Dupas, of New Orleans, in the United States of America.

1135. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Certain improvements in fish hooks."—A communication from abroad, by Theodore Frederic Weil, of New Orleans, in the United States of America.

As set forth in his respective petitions, both recorded in the said office on the 5th day of May, 1859.

1295. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery, applicable to the manufacture of rivets, bullets, and other like articles."—A communication from abroad by Charles Bartholomew Allen, of Philadelphia, United States of America.
As set forth in his petition, recorded in the said office on the 25th day of May, 1859.

1327. And Edgar Breffit, of 61, King William Street, in the city of London, Glass Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for the manufacture of hollow corks."

1334. And James Lee Norton, of Belle Sauvage Yard, Ludgate Hill, in the city of London, has given the like notice in respect of the invention of "Improvements in machines for stretching and drying fabrics, and in drying wool and other fibres."
As set forth in their respective petitions, both recorded in the said office on the 30th day of May, 1859.

1694. And Andrew Phillips, of Glasgow, in the county of Lanark, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in weaving carpets, and in the machinery or apparatus to be used therein, parts of which machinery or apparatus are applicable to the weaving of other fabrics."
As set forth in his petition, recorded in the said office on the 18th day of July, 1859.

1738. And Joseph Gillott, of Birmingham, in the county of Warwick, Manufacturer, and John Morrison, of Birmingham aforesaid, Machinist, have given the like notice in respect of the invention of "New or improved machinery for the manufacture of the handles of penholders, which machinery or a part or parts thereof, may also be employed for manufacturing other cylindrical articles."
As set forth in their petition, recorded in the said office on the 26th day of June, 1859.

1765. And Joseph Wood, of York City, Surgical Instrument Maker, has given the like notice in respect of the invention of "An improved truss for hernia."
As set forth in his petition, recorded in the said office on the 30th day of July, 1859.

1777. And Thomas Goode Messenger, of High Street, Loughborough, in the county of Leicester, Horticultural Builder and Plumber, has given the like notice in respect of the invention of "Improvements in the construction of buildings or erections to be used for horticultural or other purposes."
As set forth in his petition, recorded in the said office on the 1st day of August, 1859.

1803. And Edward Barker Gowland, of Brecknock Street, Camden Town, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in pianofortes."
As set forth in his petition, recorded in the said office on the 5th day of August, 1859.

1817. And Edward Albert Suwerkrop, of Leith, in the county of Mid Lothian, Merchant, has given the like notice in respect of the invention of "Improvements in reaping and mowing machines."—Partly a communication from abroad by François Leroy, of San Francisco.
As set forth in his petition, recorded in the said office on the 6th day of August, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

22nd August, 1859.

521. Joseph Hine, of Clerkenwell, in the county of Middlesex, Fancy Cabinet Manufacturer, for an invention of "An improved joint for cabinet making, carpentry, and other constructive purposes."—Dated 26th February, 1859.

524. Francois Brignoles, residing at No. 3, Duke Street, Adelphi, London, county of Middlesex, for an invention of "The disinfection and rectification of alcohols by the separation of the essential and other oils from the alcohol."—A communication from Mr. St. Cyr Prieur, now residing in Avignon town, France.—Dated 28th February, 1859.

536. Edward Joseph Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, for an invention of "Improvements in preserving animal food, poultry, game, fish, fruit, and other similar substances."—A communication from abroad by Edouard Gorges, of Paris.—Dated 1st March, 1859.

537. Thomas Cloake, of No. 6, Saville Row, Walworth, in the county of Surrey, Watch Maker, for an invention of "Stopping of the bodies and wheels of railway and other carriages."—Dated 1st March, 1859.

541. John Edwards, of Fenton, in the county of Stafford, Manufacturer, for an invention of "Improvements in stacking or holding biscuit, earthen, china, and glossed ware for firing."—Dated 1st March, 1859.

543. James Templeman, of Glasgow, in the county of Lanark, North Britain, Artificial Fuel Manufacturer, for an invention of "Improvements in the manufacture or production of artificial fuel."—Dated 1st March, 1859.

545. David Lichtenstadt, of No. 1, Henry Cottages, Park Road, Peckham, in the county of Surrey, Chemist, for an invention of "Converting certain vegetable substances into fibrous material for the manufacture of paper textile and other fabrics."—Dated 1st March, 1859.

550. Robert Hanham Collyer, of Alpha Road, in the county of Middlesex, Doctor of Medicine and Civil Engineer, for an invention of "A process of preparing materials for the manufacture of paper and a machine employed therein, which machine is applicable for crushing, grinding, bruising, and reducing various substances."—Dated 2nd March, 1859.

648. John Samuel Dawes, of Smethwick House, near Birmingham, Gentleman, for an invention of "A new or improved method or combination of arrangements for the better securing and collecting of night soil or town manure, and rendering it more valuable for agricultural purposes."—Dated 14th March, 1859.

1026. William Moxon, of Parliament Street, in the city of Westminster, Contractor, and Joseph Jeffrey Bennett, of Homer Terrace, Victoria Park, in the county of Middlesex, Civil Engineer, for an invention of "Improved apparatus for raising or lifting and lowering heavy bodies."—Dated 23rd April, 1859.

1437. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the manufacture of polishing wheels, sticks, and tools."—A communication from Thomas J. Mayall, of Roxbury, in the county of Norfolk, and state of Massachusetts, United States of America.—Dated 15th June, 1959.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 20th August, 1859, inclusive.*)

18th August.

1937. Robert Jobson, of Wordsley, in the county of Stafford, Ironfounder, for an invention of "Improvements in apparatus for pouring iron or other metal into moulds."—Dated 19th August, 1856.

19th August.

1976. Marc Antoine François Mennons, of 21, Rue Napoleon, Montmartre (depart. de la Seine), in the empire of France, for an invention of "A new composition applicable to the coating or covering of metallic and non-metallic surfaces."—A communication.—Dated 25th August, 1856.

20th August.

1992. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in breech-loading cannons and other ordnance."—A communication.—Dated 26th August, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 11th August, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 585 of this Journal.)

7454. F. Barnett, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for catching flies."—Dated 22nd April, 1859.—(M. B. C. Lesage's French Patent, 15th July, 1858.)

7668. W. Clark, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in safety pulleys for lowering boats from vessels."—Dated 20th June, 1859.—(English Patent, 12th April, 1859.)

7699. J. J. Burny, of Brussels, for "An instrument for removing corns, &c."—Dated 29th June, 1859.

7734. A. Dehaspe, of Braine-le-Comte, for "A machine for polishing grain and for removing the germ therefrom."—Dated 9th July, 1859.

7762. H. Louvigny, of Bilsen, for "Improvements in the manufacture of organs."—Dated 20th July, 1859.

7789. R. Romaine, represented by H. Biebuyck, of Brussels, for an imported invention of "Portable railways."—Dated 23rd July, 1859.—(English Patent, 14th January, 1859.)

7790. J. S. Chester, represented by E. Guillery, of Molenbeek St. Jean, for an imported invention of "Improvements in apparatus for priming fire-arms."—Dated 23rd July, 1859.—(J. S. Butterfield, American Patent, 11th December, 1855.)

7791. P. F. and N. Rolland, of Hensies, for "An electric printing telegraph."—Dated 25th July, 1859.

7792. H. J. Petit, of St. Josse-ten-Noode, for "Improvements in fixing gasmeters."—Dated 25th July, 1859.

7793. J. B. Perpète, represented by H. Biebuyck, of Brussels, for an imported invention of "Stationary steam-engines applicable to steam-boats."—Dated 25th July, 1859.—(French Patent, 11th July, 1859.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7794. John Cockerill and Co., represented by A. Joassart, of Seraing, for "A mode of moulding and casting cylinders of rolling-mills."—Dated 26th July, 1859.

7795. E. Lisbet, represented by E. Hardy, of Quaregnon, for an imported invention of "An apparatus for boring holes for mines in all kinds of rocks."—Dated 26th July, 1859.—(French Patent, 7th June, 1859.)

7797. J. Staal, of Brussels, for an imported invention of "An apparatus for closing vessels and recipients hermetically."—Dated 26th July, 1859. —(French Patent, 24th December, 1858.)

7798. F. Puls, represented by R. Culliford, of Brussels, for an imported invention of "Improvements in the treatment of hydrocarbonic compounds." — Dated 26th July, 1859. — (English Patent, 10th June, 1859.)

7800. T. J. Sloan, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in opening and closing doors, shutters, &c." —Dated 27th July, 1859. —(French Patent, 5th July, 1859.)

7801. T. J. Sloan, represented by H. Biebuyck, of Brussels, for an imported invention of "A mode of opening folded doors."—Dated 27th July, 1859. —(French Patent, 29th January, 1859.)

7802. A. Gillis, represented by A. Auyt, of Brussels, for "A mixing apparatus for making chocolate."—Dated 27th July, 1859.

7803. F. Donny, of Ghent, for "Manufacture of safety-paper."—Dated 11th July, 1859.

7804. Ph. Van Dalsum-Michiels, of Ghent, for "Manufacture of drivers of buffalo leather for power looms."—Dated 28th July, 1859.

7805. A. Rasenfosse and L. Vogel, represented by D. Tassin, of Liége, for "Utilizing the residue of sheet iron after separating therefrom the tin covering the same."—Dated 29th July, 1859.

7806. L. Cherpitel, represented by O. Daillencourt, of Brussels, for an imported invention of "A system of photographic dioramas with animated and moveable effects."—Dated 28th July, 1859.— —(French Patent, 18th June, 1859.)

7807. L. S. De Leeman, represented by H. Biebuyck, of Brussels, for an imported invention of "Treating and applying an Indian plant called 'Piacova.'"—Dated 28th July, 1859. — (Dutch Patent, 22nd July, 1859.)

7809. H. Labin, represented by H. Biebuyck, of Brussels, for an imported invention of "A mechanism for keyed instruments and telegraphs."— Dated 28th July, 1859. — (French Patent, 9th June, 1859.)

7810. A. F. Le Mat, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in guns."—Dated 20th July, 1859.— (French Patent, 20th July, 1859.)

7811. H. M. Paine, represented by H. Biebuyck, of Brussels, for an imported invention of "A motor." —Dated 28th July, 1859.—(English Patent, 18th January, 1859.)

7812. A. F. Le Mat, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Revolvers charged with grape shot."—Dated 28th July, 1859. — (Original Patent, 30th October, 1857.)

7813. W. Pugh, represented by H. Biebuyck of Brussels, a Patent of Improvement for "A rectilinear knitting frame for obtaining lists and lessenings."—Dated 28th July, 1859. —(Original Patent, 28th July, 1858.)

7814. P. J. Chantrel, represented by C. Wenseleers, of Brussels, for an imported invention of "A centrifugal apparatus for extracting the juice of beetroot."—Dated 29th July, 1859.—(French Patent, 28th May, 1859.)

7815. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the manufacture of cast steel, steel iron, and iron."—Dated 20th July, 1859.— —(English Patent, 24th January, 1859.)

7816. J. B. Denizot, represented by H. Biebuyck, of Brussels, for an imported invention of "A screw tube of smoking pipes."—Dated 30th July, 1859.—(French Patent, 7th October, 1857.)

7817. J. Aspinall, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for making bolts, nails, and rivets."—Dated 30th July, 1859.—(English Patent, 6th January, 1859.)

7819. F. Van T. Velt, of Brussels, for "A system of stoves of counter oxidated sheet iron."—Dated 1st August, 1859.

7820. J. Montgomery, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the construction of hulls of steam-boats and other vessels."—Dated 1st August, 1859. — (English Patent, 17th January, 1859.

7821. J. W. Duncan, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in electric telegraphs, and in the insulation of cables of telegraphs." —Dated 1st August, 1859.—(English Patent, 30th December, 1858.)

7822. T. C. Avery, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in the construction of electric batteries." — Dated 1st August, 1859. — (French Patent, 21st July, 1859.)

7823. The Company of the Anzin Mines, represented by A. Cabany, of Mons, a Patent of Improvement for "Coke-kilns."—Dated 1st August, 1859. — (Original Patent, 18th January, 1859.)

7824. L. J. J. Ghaze, of Liége, a Patent of Improvement for "Breech-loading fire-arms."—Dated 1st August, 1859.—(Original Patent, 28th May, 1857.)

7825. A. Cosyns, of Couillet, for "A puddling furnace, worked by means of hot-air and forced currents of air."—Dated 1st August, 1859.

7826. C. A. de Jaer, of Liége, a Patent of Improvement for "Closing safety-lamps of miners." —Dated 1st August, 1859. — (Original Patent, 27th September, 1855.)

7827. J. B. Clavières, of Brussels, for an imported invention of "Rails and sleepers used in the construction of tramways."—Dated 2nd August, 1859.—(French Patent, 14th July, 1859.)

List of Specifications published during the week ending 19th August, 1859.

No.	Price.	Subject-Matter.
79	3*d.*	Exhibiting pictures through looking-glasses.
81	1*s.* 10*d.*	Carriage-wheel break.
82	6*d.*	Machinery for working pumps.
83	3*d.*	Shirts and shirt fronts.
84	4*d.*	Insulating electrical conducting wires.
85	3*d.*	Dentistry.
86	10*d.*	Promoting combustion and prevention of smoke in coal burning locomotives, &c.
87	1*s.* 6*d.*	Constructing supports for telegraphic wires, &c.
88	3*d.*	Rendering fabrics and substances non-inflammable.
89	11*d.*	Steam engines.
90	3*d.*	Apparatus for raising ladies' dresses.
91	1*s.* 1*d.*	Locomotive and traction engines.
92	6*d.*	Construction of boats and mode of propelling them.
93	3*d.*	Manufacture of rugs.
94	4*d.*	Preparing skins to be converted into leather, &c.
95	10*d.*	Fixing door and other knobs.
96	3*d.*	Machinery for paying out and recovering submarine telegraph ropes, &c.
97	7*d.*	Governors for steam and other motive power engines.
98	1*s.* 5*d.*	Steam engines, pistons, &c.
99	3*d.*	Fastenings for windows, shutters, doors, &c.
100	4*d.*	Metallic alloy.
101	5*d.*	Manufacture of cast steel.
102	3*d.*	Sluice valves.
103	3*d.*	Coating iron and steel with metals by electro-deposition.
104	5*d.*	Heat indicator for ovens, &c.
105	9*d.*	Spinning cotton and other fibrous materials.
106	7*d.*	Preventing accidents when raising or lowering skips, baskets, &c.
107	3*d.*	Construction of ships, &c.
108	6*d.*	Pistons for steam engines, &c.
109	3*d.*	Imparting motion to cots, cradles, &c.
110	3*d.*	Lawn mowing machines.
111	3*d.*	Wind musical instruments.
112	10*d.*	Travelling suspension rail, applicable as a bridge and lifting agent.
113	1*s.* 10*d.*	Railway signal apparatus.
114	6*d.*	Breech-loading fire-arms and cartridges.
115	1*s.* 10*d.*	Casks.
116	3*d.*	Instrument for teaching music.
117	9*d.*	Felting bodies of hats and bonnets.
118	3*d.*	Manufacture of warp lace.
119	3*d.*	Laying electric telegraphic wires in streets.
120	10*d.*	Traction and portable steam engines.
121	7*d.*	Feeding steam boilers with water.
122	4*d.*	Treating spun silk thread, &c.
123	3*d.*	Time measuring apparatus.
124	3*d.*	Waterproof drawers and napkins.
125	10*d.*	Sluice valves.
126	5*d.*	Obtaining carbonic acid gas.
127	10*d.*	Portable railway.
128	3*d.*	Substitute for stone for building purposes.
129	6*d.*	Upright celled boiler.
130	3*d.*	Inks for engraving and lithographic purposes.
131	1*s.* 4*d.*	Construction of a travelling suspension rail.
132	4*d.*	Manufacture of cast steel.
133	10*d.*	Capsules.
134	5*d.*	Manufacture of cast steel.
135	3*d.*	Machinery for printing and stencilling.
136	3*d.*	Letter boxes
141	7*d.*	Sewing machines.
144	4*d.*	Washing and drying wool, &c.
145	5*d.*	Manufacture of cast steel.
146	3*d.*	Machine for putting on, equalizing, and drying colors on paper, &c.
147	6*d.*	Furniture for window and other blinds.
151	7*d.*	Generating force.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Erratum in Journal of 19th August.

No. 1774. For "A communication" read "Partly a communication."

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
Bavaria, No. 262.
Belgium, Nos. 292 and 348.
Baden, and Petty States of Germany, No. 325.
Canada, No. 279.
Cuba, No. 498.
Dutch West Indies, No. 322.
France, No. 228.
Greece, No. 325.
Germany, No. 435.
Hanover, No. 231.
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New South Wales, No. 386.
Prussia, Nos. 313 and 329.
Parma, Piacenza, and Guastalla, No. 321.
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Poland, No 335.
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Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 527 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

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NOTE.—The Commissioners' publications may be consulted daily in the Library of the British Museum; in the Library of the Society of Arts; and in the Free Libraries of the following Towns and Cities:—

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Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
Bradford, Yorkshire (*Borough Accountant's Office, Corporation Buildings, Swain Street*).
Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
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Leeds (*Town Clerk's Office, Town Hall*).
Leicester (*Corporation Library, Town Hall*).
Limerick.
Liverpool (*Free Public Library, Duke Street*).
——— (*Royal Institution*).
London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*)
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices, Institutions, &c.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
Dublin Castle, Dublin.
Rolls Office, Chancery (Four Courts), Dublin.
Office of Chancery, Edinburgh.
East India House, Military Stores, Leadenhall Street.
Incorporated Law Society Chancery Lane, London.

Seats of Learning.

Cambridge University.
Trinity College, Dublin.
Queen's College, Galway.
University College, London.

British Colonies.

Malta.
Cape of Good Hope.
Mauritius.
India—Bengal.
North-West Provinces.
Madras.
Bombay.
Ceylon.
Victoria—Patent Office, Melbourne.
Parliamentary Library, Melbourne.
New South Wales.
South Australia.
Tasmania.
New Zealand.
Newfoundland.
Canada—Quebec.
Toronto.
New Brunswick.
Prince Edward Island.
Antigua.
Barbados.
Jamaica.
Trinidad.
British Guiana.

Foreign States.

Austria—Handels Ministerium, Vienna.
Bavaria—Königliche Bibliothek, Munich.
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Hanover—Ministerium des Innern, Hanover.
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Saxony—Polytechnische Schule, Dresden.
Sweden—Stockholm.
United States—The Patent Office, Washington.
The Astor Library, New York.
The State Library, Albany.
The Franklin Institute, Philadelphia.
The Free Library, Boston.
The Philadelphia Library Company.
Wurtemberg—Bibliothek des Musterlagers, Stuttgart.

PATENT LAW AMENDMENT ACT, 1852.—All Specifications, Indexes, &c., printed by order of the Commissioners of Patents, are sold at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

THE PATENT LAW AMENDMENT ACTS (15 & 16 Vict., cap. 83; 16 Vict., cap. 5; and 16 & 17 Vict., cap. 115); with the Rules and Regulations made by the Commissioners of Patents for Inventions, and by the Lord Chancellor and the Master of the Rolls, under the Acts 15 and 16 Vict., c. 83, and 16 & 17 Vict., c. 115, accompanied by Specimen Forms of the Provisional Documents printed on sheets of the prescribed size. Price 6*d*.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 20th August, 1859.

Mornings - - - -	1507
Evenings - - - -	1462
Total - - -	2969

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 589. FRIDAY, AUGUST 26, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1768. To ANTON BRUNO SEITHEN, of No. 6, Alpha Place, Caledonian Road, London, in the county of Middlesex, for the invention of "Improvements in cases or boxes, and in casings, hampers, baskets, and wrappers for holding bottles, jars, and other articles."

On his petition, recorded in the Office of the Commissioners on the 30th day of July, 1859.

1778. To ELIZABETH MERRELL, of Little George Street, Minories, in the city of London, Tin and Zinc Plate Worker, for the invention of "Improvements in apparatus for washing and cleansing."

On her petition, recorded in the Office of the Commissioners on the 1st day of August, 1859.

1800. To EDWARD JAMES CORDNER, of Derramore, in the county of Down, Ireland, Clerk, for the invention of "Improvements in the application of kites to the saving of life and property from shipwreck, and to other purposes."

On his petition, recorded in the Office of the Commissioners on the 4th day of August, 1859.

1808. To ROBERT THOMSON PATTISON, residing at Daldorch, in the county of Ayr, in Scotland, for the invention of "Improvements in dyeing certain woven fabrics."

On his petition, recorded in the Office of the Commissioners on the 5th day of August, 1859.

1822. To JOHN CUNNINGHAM, of Paisley, in the county of Renfrew, North Britain, Card Perforator, for the invention of "Improvements in and connected with Jacquard apparatus for weaving."

1824. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improved means of preventing incrustations in steam boilers."—A communication from abroad, by Louis Serbat, of Saint Saulve, France.

1826. To LOUIS BERTRAND OLLIVIER, of No. 29, Boulevart St. Martin, Paris, in the empire of France, Gentleman, for the invention of "Improvements in closing or stoppering bottles, jars, and other receptacles."

1827. To BENJAMIN BAUGH, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the county of Warwick, for the invention of "Certain improvements in the mode and apparatus for partially forming, and finishing the edges of certain description of vessels formed or raised from sheet iron or other metal."

1828. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "An improved signal light, and in the apparatus employed in the production thereof."—A communication from abroad, by Messrs. Silas and Pegot Ogier, of Paris, in the empire of France.

1830. To GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in revivifying the scarlet color of woollen cloth, lace, and embroidery, in use for military and other garments and furniture."—A communication from abroad, by Messrs. Andrés Burdel and Chicard, of Paris.

1832. And to JOHN BRAZER BABCOCK, of No. 35, Milk Street, Boston, in the United States of America, for the invention of "Improvements in umbrellas and parasols."—A communication from Anthony G. Davis, residing at Waterton, Litchfield, Connecticut.

On their several petitions, recorded in the Office of the Commissioners on the 8th day of August, 1859.

1834. To NELSON KENWARD, of Sutton, in the county of Surrey, for the invention of "Improvements in constructing tubular steam boilers."

1836. To JOHN CANNON, of Billiter Street, in the city of London, Ship Broker, for the invention of "Improvements in washing machines."—A communication from abroad by Abiel Odell, of Bourmanville, in the county of Durham, Canada, Machinist.

1838. To CHARLES LOUIS JOSEPH DIERICKX, Director of the Mint, residing at the Mint, in the city of Paris, for the invention of "A new system of scales, to be used principally in the fabrication of coins."

1844. To WELBURN WILLIAMSON, of High Holborn, in the county of Middlesex, Engineer and Machinist, for the invention of "An improved machine or tool for drilling holes."

1846. And to JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in destroying noxious exhalations."—A communication from abroad, by Messrs. Silas and Pegot-Ogier, of Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of August, 1859.

1850. To THOMAS ATO TEMPERTON, of the city of Manchester, in the county of Lancaster, Corn Merchant, for the invention of "Improvements in pipes for smoking tobacco."

1852. To GEORGE CAPPER, of Bidborough Street, New Road, in the county of Middlesex, for the invention of "Improvements in the permanent way of railways."

1854. And to JOHN JAMES SPEED the younger, of the city of Detroit, in the United States of America, Telegraph Engineer, for the invention of "Improvements in the manufacture of pipes, tubes, and hollow cylinders."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of August, 1859.

1855. To RALPH HEATON the younger, of Birmingham, in the county of Warwick, Manufacturer, and GEORGE HEATON, of Birmingham aforesaid, Manufacturer, for the invention of "Improvements in coining machinery."

1857. To JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for the invention of "A composition applicable to the lubrication of machinery and to various other uses."—A communication from abroad, by Horace Vaughn, of the city of Providence, in the state of Rhode Island, one of the United States of North America.

1858. To WILLIAM BOUCH, of Shildon, in the county of Durham, Engineer, for the invention of "Improvements in breaks, in buffers, and in couplings to be used on railways."

1859. To DAVID HULETT, of 55 and 56, High Holborn, London, Gas Engineer, and GEORGE PRUDDEN, of Shefford, Beds, Gas Engineer, for the invention of "Improvements in apparatus for the manufacture and distribution of gas, and in apparatus applicable for internal or external illumination."

1860. And to WARREN DE LA RUE, Manufacturer, and Dr. HUGO MÜLLER, both of 110, Bunhill Row, in the county of Middlesex, for the invention of "Improvements in treating Japan and other vegetable wax."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of August, 1859.

1862. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Certain improvements in oscillating engines."—A communication from abroad by Messrs. Mark Runkel, of New York city, and Frederick Franch, of San Francisco, in the state of California.

1863. To AUGUSTE EVAUX, of 206, Regent Street, London, for the invention of "Artificial marbles."

1864. To WILLIAM HENRY TOOTH, of No. 3, Spring Terrace, Wandsworth Road, in the county of Surrey, for the invention of "Improvements in the mode of cleaning or laying the dust of pavements, roads, or other surfaces."

1865. And to JAMES PHILP, of Camden Town, in the county of Middlesex, Gentleman, for the invention of "An improved hobby-horse or child's exerciser."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of August, 1859.

1867. To DUGALD CAMPBELL, of No. 7, Quality Court, Chancery Lane, in the county of Middlesex, Consulting Chemist, for the invention of "Improvements in the preparation of oils for medicinal and other purposes."

1868. To JAMES BROWN, of No. 8, Exeter Place, Walham Green, in the county of Middlesex, Shirt Manufacturer, for the invention of "Improving false shirt fronts."

1870. To WILLIAM GREEN, of Kidderminster, WILLIAM FAWCETT, of Wolverley, and FRANCIS BEST FAWCETT, of Wolverley, all in the county of Worcester, Carpet Manufacturers, for the invention of "Improvements in the manufacture of rugs."

1871. To ROBERT CLEGG, of Islington, in the county of Middlesex, and RICHARD FELL, of Saint Ann's Place, Limehouse, in the county of Middlesex, for the invention of "Apparatus for obtaining aerated fresh water from salt water."

1872. To JOHN STUART, of Musselburgh, in the county of Mid Lothian, North Britain, and WILLIAM STUART, of the same place, Manufacturers, for the invention of "Improvements in nets for fishing, and for other purposes."

1873. To KARL BÜHRING, of 45, Saint Paul's Road, Camden Town, in the county of Middlesex, Gentleman, for the invention of "An improvement in obtaining spring power, and in its application to various purposes."

1874. To RICHARD IRELAND WATTS, of Plymouth, in the county of Devon, Merchant, JOHN OFFORD, of the same place, Gentleman, and JOHN ROBERTS THOMAS, also of the same place, Engineer, for the invention of "A method of condensing and consuming smoke, and other products of coals,

ores, and similar substances, and reducing them to useful materials."

1875. To HENRY THOMAS LAMBERT, of America Square, in the city of London, Ship Chandler, for the invention of "Improved apparatus to be adapted to ships' tackle or boats, for the purpose of facilitating the disengaging of ships' boats when lowered into the water."—A communication from abroad by Captain George Hall Carleton, of Camden, in the state of Maine, United States of America.

1876. To ELIAS SLOMAN, of Upper East Smithfield, in the county of Middlesex, for the invention of "An improved feed water and heating apparatus."—A communication from Gottfreyd May, resident at Magdeburch, in the kingdom of Prussia.

1877. To JAMES ROTHWELL ROSTRON, of Edenfield, in the county of Lancaster, for the invention of "Improvements in locomotive furnaces."

1878. And to COLIN MATHER, of Salford, in the county of Lancaster, Mechanical Engineer, for the invention of "Improvements in machinery for stretching, drying, and finishing fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 13*th day of August*, 1859.

1879. To SAMUEL HARRISON, of No. 52, Stanhope Street, Clare Market, in the parish of Saint Clement Danes, county of Middlesex, for the invention of "Broiling of chops or any other kind of meat.',

1880. To JOHN JEYES, of Northampton, in the county of Northampton, Seed Merchant, for the invention of "An improvement in the manufacture of boots and shoes."

1881. To CHARLES KISKY, of King Street, Camden Town, in the county of Middlesex, Cabinet Maker, and WILLIAM JONES, of Howland Street, Fitzroy Square, in the same county, Builder, for the invention of "Improvements in the construction of sideboards."

1882. To CHARLES GLASSBOROW, of Girard Avenue, Philadelphia, in the United States of America, Piano Manufacturer, for the invention of "Improvements in pianos."

1833. To JOHN CHANTER, of Bow Road, Proprietor of Patents, and DAVID ANNAN, Engineer, of Bow, in the county of Middlesex, for the invention of "Improvements in apparatus for supplying air to furnaces."

1884. To EDWARD STONE, of No. 46, Lime Street, in the city of London, Merchant, for the invention of "Improvements in machinery for cutting veneers."—A communication from abroad, by John Ahsbohs, residing at New York, United States of America.

1885. And to JOHN POUPARD, of Stratford, in the county of Essex, for the invention of "A certain plastic combination to be used for black-leading stoves and other ironwork."

On their several petitions, recorded in the Office of the Commissioners on the 15*th day of August*, 1859.

1887. To HENRY BATCHELOR, of Newport, Monmouthshire, Engineer, for the invention of "Improvements in steam and other motive power engines."

1889. To WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the treatment of certain offensive liquids and of noxious gases liberated from such liquids."

1890. To JOHN COOPE HADDAN, of Bessborough Gardens, Pimlico, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in wads for projectiles, and in projectiles to be used therewith."

1891. And to JOHN COOPE HADDAN, of Bessborough Gardens, Pimlico, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in machinery or apparatus for rifling cannon."

On their several petitions, recorded in the Office of the Commissioners on the 16*th day of August*, 1859.

1893. To HENRY MEDLOCK, of Nos. 15 and 20, Great Marlborough Street, in the city and liberty of Westminster, Analytical Chemist, for the invention of "Improvements Portland and Roman cement, lime, and other similar kilns or furnaces."

1895. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in locks and keys."—A communication from abroad by Jules Emile Petit, of Paris.

1897. And to AUGUSTUS YOCKNEY, of Pockeredge, near Chippenham, in the county of Wilts, Gentleman, for the invention of "Improvements in refining and compounding oils or fatty matters with other substances for lubricating and other purposes."

On their several petitions, recorded in the Office of the Commissioners on the 17*th day of August*, 1859.

1899. To JAMES DRABBLE, of Orchard Works, Orchard Lane, in the parish of Sheffield, county of York, Merchant, and Manufacturer of Table Knives, for the invention of "An improvement in sewing machines."

1901. To HYAM JACOB HYAMS, of Holywell Street, in the city of Westminster, Gas Meter Maker, for the invention of "Improvements in the construction of wet gas meters."

1903. And to WILLIAM WILSON, of Glasgow, in the county of Lanark, North Britain, Brick Maker, for the invention of "Improvements in the manufacture or production of bricks, tiles, and other articles of earthenware, and in the machinery or apparatus employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 18*th day of August*, 1859.

Patent on which the Stamp Duty of £50 has been Paid.

(*To* 24*th August*, 1859.)

2058. GEORGE ANDERSON, of Queen's Road, Dalston, in the county of Middlesex, Gas Engineer, for an invention of "Improvements in the combustion of tar and other similar matters in heating gas retorts, and in the consumption of smoke arising therefrom and from other fuels used therewith."—Dated 4th September, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 9th August, 1859, and each bearing that date.

No. 24,978. H. O. AMES, of New Orleans, La., for an "Improvement in apparatus for heating evaporating pans."

"I claim the arrangement of the parallel evaporating pipes D, D, with their elbows, and collars, and screw nozzles *a*, *a*, passing through the bottom of the pan, and the parallel external supply and escape pipes B and C, with the nozzles *d*, *d*, and union couplings *l*, *l*, for making the connections with the nozzles *a*, *a*, substantially as herein described."

No. 24,979. JOHN ANDREWS, of Clinton, Mass., for an "Improvement in seeding machines."

"What I claim, is, the arrangement and combination of the vibrating bars or blocks (*g*), frame (*a*), axle (*d*), cam (*c*), and seed slide (*n*), as set forth, whereby the cam which operates the harrow, also moves the seed slide, and the harrow bars (*g*), have a horizontal vibration, and also a vertical play with the frame upon the axle (*d*)."

No. 24,980. JOHN ANDREWS, of Clinton, Mass., for an "Improvement in seeding machines."

"I claim, 1, the arrangement and combination of the blocks (*b*), circular plates (*g*), teeth (*f*), levers (*x*), and seed sliders (*p*), substantially as herein shown and described. 2, the arrangement and combination of the covering apron (*l*), bar (*d*), blocks (*b*), rod (*y*), and lever (*x*), as herein shown and described."

No. 24,981. FRANCIS ARMSTRONG, of New Orleans, La., for an "Improvement in brakes for railroad cars."

"I claim making the adjustment from the pull or the coupling, when actuating on distinctly detached parts, namely, the latch (*c*), and tongues (*t*), when constructed and operated as, or substantially as described. I also claim, in combination, the arms (*n*), bar (*r*), and levers (*m*), when arranged and operated substantially as described and for the purpose set forth."

No. 24,982. MOSES S. BEACH, of Brooklyn, N. Y., for an "Improvement in machinery to feed sheets of paper to printing presses."

"I claim, 1st, feeding sheets to the impression cylinders of printing presses by means of revolving arms, or scrapers *a*, operating in combination with rollers *b*, in the manner, substantially as described. 2nd, retaining the paper in connection with the impression cylinders of printing presses during the process of printing, by means of holders *f* and *g*, in the manner substantially as described. 3rd, detaching the paper from impression cylinders by means of deflectors *p* and *q*, operating substantially as described."

No. 24,983. GEO. W. BEARD, of Canton, Miss., for an "Improvement in cotton cultivators."

"What I claim, is, the peculiar shape given to the scrapers or cutters J, J, and their lateral and vertical adjustment, in combination with the adjustable plow beams C, C, when the same are all arranged, in the manner and for the purposes herein set forth."

No. 24,984. ELIJAH P. BEAUCHAMP, of Preston, Geo., for an "Improvement in cotton seed planters."

"What I claim, and desire to secure by Letters Patent, is, the arrangement of the box 1, axle 2, wheels 3, side pieces or frame 4, bolt 5, beam 6, stock 7, follower 8, furrow-opener 9, and brace 10, as described, for the purposes set forth."

No. 24,985. LAURENT BEAUDREAU, of Fon du Lac, Wis., for an "Improved shingle machine."

"I claim the relative arrangement for united operation of the intermediate circular revolving saw B, open reciprocating double carriage C, *c*, c^1, toothed clamps G, G^1, bars H, H^1, rollers *m*, m^1, springs I, I^1, inclined or curved guiding plates *n*, n^1, horizontal rocking cradles J, J^1, cams *r*, r^1 and S, S^1, shafts *t*, t^1, bars *u*, and hinged flaps or pawls *v*, v^1, v^2, v^3, all substantially in the manner and for the purpose herein described."

No. 24,986. PHILIP BETTLE, of London, England, for an "Improvement in watch cases."—Patented in England 18th November, 1857.

"I claim, first, the attachment of the inner case containing the movement of the outer case by means of pins or pivots, so that the movement case can be turned over to face the open or closed side of the outer case without being removed from the outer case. Second, attaching the pendant handle to the movement case, so that it forms one of the centres or pivots on which the watch turns in connection and combination with a pin or pivot, on the opposite side of the case. Third, the particular form and manner of constructing the pendant, and attaching the same to the inner or movement case herein-before described and shown in the accompanying drawings."

No. 24,987. WM. BILLINGHURST, of Rochester, N. Y., for a "Fishing reel."

"I claim the combination of the skelcton ring R, R, R, with the other parts of the reel, the whole being arranged in the manner and for the purpose substantially as set forth."

No. 24,988. EDMOND BLANCHARD, of Greenfield Mills, Md., for an "Improvement in composts."

"I claim, as a new article of manufacture, a fertilizing compost, composed of lime, chloride of sodium, wood ashes, charcoal, wheat, bran, chimney soot, and gypsum, combined in the proportions and manner herein described."

No. 24,989. E. BURROUGHS, of Rochester, N. Y., for an "Improvement in machines for cutting paper."

"I claim, 1st, the employment or use of the reciprocating and oscillating knife G, when arranged to operate substantially as and for the purpose set forth. 2nd, the knife G in connection with the cone of pulleys T attached to the shaft S, the hollow shafts *y*, *z*, with their respective gearing a^1, h^1, h^1, and a^{11}, $\bar{r}^1$, f^1, and the shaft R, with its gearing *v*, *w*, and the racks I, I, attached to the knife bar F by the rods H, H, the whole being arranged to operate substantially as set forth. 3rd, the arrangement of the shaft V with spring g^1, the arm *f*, cone of pulleys T, levers V, W, rack l^1, substantially as shown, for the purpose of automatically changing the movement of the knife from a descending to an upward movement. 4th, the clamp, formed of the vertical and horizontal plates *p*, *q*, when arranged as shown, so as to be adjusted by the screw *s* and pinion or worm wheel *r*, pinions *u*, *u*, and racks P, P, the latter serving in the capacity of both racks and guides, substantially as and for the purpose specified. 5th, attaching to the shaft F an index *b*, arranged to move over a graduated stationary plate *c* attached to the frame A, substantially as shown, for the purpose of enabling the operator to accurately adjust the paper beneath the knife."

No. 24,990. JOHN T. CAMPBELL, of Rockville, Ind., for an "Improved adding machine."

"I claim the arrangement of a series of wheels, provided with ten cogs or teeth, and carrying the ten numeric figures on their outward faces, in combination with the stationary plate containing like numeric figures, arranged on the circle surrounding each of the wheels in the series, substantially as described. And, in combination with the parts above claimed, arranged as described, I claim the stop bars Y, Y, and spring slides G, G, and oscillating arms or pawls F, F, with the cam *e*, *e*, the whole being constructed and arranged for joint operation, substantially as set forth."

No. 24,991. Walter Clark, of Palmyra, Ill., for an "Improvement in seed planters."

"What I claim, is, the arrangement of the reciprocating agitating rod *r* when passing through the adjustable seed-discharge opening in the side of the hopper with the frame F, wheels W, pins P, teeth *a*, *b*, *c*, hopper H, and adjustable slide S, the whole being constructed as and for the purpose set forth."

No. 24,992. W. Cogswell and C. A. Matthewson, of Ottawa, Ill., for an "Improvement in corn harvesters."

"We claim the circular cutter F and the reciprocating sickle *r*, with its stationary toothed plate *s*, in connection with movable bed or fingers *i*, the whole being placed on a mounted frame and arranged for joint operation, substantially as and for the purpose set forth."

No. 24,993. James P. Coonley, of Farmington, Mich., for an "Improvement in corn planters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of seeding rollers H, gear wheels *d*, *d*, slide plate I, lever *c*, adjustable teeth E, coverers F, and tracking gauge M, constructed and operated substantially as and for the purposes herein set forth."

No. 24,994. B. T. Currier, of Bath, Me., for an "Improvement in corn harvesters."

"What I claim, is, the arrangement and combination of the scythe-shaped cutters B^1, B^1, rods D, D^1, cranks E, E^1, adjustable frame J, and standards A, as and for the purposes herein shown and described."

No. 24,995. Edward Davidson, of Batesville, Ark., for an "Improvement in hoop fastenings for cotton bales, &c."

"I claim forming the socket of two parts, to admit of the same being opened to receive the bent or doubled and lapped ends of the bale hoop, and closed, to secure the ends of the hoop together, substantially as and for the purpose specified."

No. 24,996. Alva Goodrich De Wolfe, of Seymour, Conn., for an "Improvement in vulcanized gums."

"What I claim, is, the use of pulverized, vulcanized rubber gutta percha, or other vulcanized gum, in the manner and for the purpose herein."

No. 24,997. Chas. S. Dickinson, of Cleveland, O., for an "Improvement in centrifugal gun."

"I claim, 1st, the employment of lever C, provided with a collar, which surrounds shaft B, pivoted or hinged at *x*, and provided with a pin or rod I, when the same is used, substantially as and for the purpose specified. 2nd, operating lever C, in one direction, by means of rod D, and its connections through the centre of the shaft B, and in the other direction, by means of spring F, for the purpose of discharging the balls from the barrel, at the proper time substantially as set forth."

No. 24,998. Rudolph Dirks, of Philadelphia, Pa., for an "Improvement in seats for sleeping cars."

"I claim, first, the cushioned platform E, and the frame F, with its detachable cushion *f*, and movable legs *h*, in combination with the permanent partitions D, D, the said platform and frame being hinged together, and otherwise arranged, as set forth. Second, the boards G and K, adapted to and sliding in or against the partitions D, D, and arranged as specified, so as to form the foot and head boards for the couches. Third, the frame H, so hinged to the side of the car, and the frame I, so hinged to the frame H, that both frames may assume the positions illustrated in Figs. 1 and 2, in combination with the partitions D, D, and their sliding frames G. Fourth, forming the upper couch to the board L, hinged to the side of the car, and one or more boards M, hinged to the boards L, when arranged as set forth, in combination with the permanent partitions D, D."

No. 24,999. Zachariah Feagan, of Palmyra, Mo., for an "Improvement in hemp brakes."

"What I claim, is, the arrangement and combination of the stationary bars (L, L), finger guards (*o*, *o*), vibrating spring levers (E, E), and cams (D, D), the whole being constructed and operated, substantially in the manner and for the purpose set forth."

No. 25,000. Andrew Dougherty, of Brooklyn, N. Y., for an "Improvement in printing presses."

"What I claim, is, the combination of the inking apparatus at the side of the main cylinder of a press, with a carriage that can be moved from and towards the main cylinder, and with a stop, that controls the position of the carriage, the combination as a whole operating substantially as above set forth."

No. 25,001. Albert Eames, of Bridgeport, Conn., for an "Improved die for swaging bolt heads."

"What I claim as my invention, and desire to secure by Letters Patent, is, making dies for swaging bolt heads and other articles, in two or more parts, the part forming the bottom being fitted to and in the part forming the periphery, substantially as described, and the whole fitted to and secured within the drop, or equivalent therefor, as set forth. And I also claim, in combination with the die, the bottom of which is made separate from and inserted in the part forming the periphery, grooving the periphery of the part forming the bottom for the escape of air, substantially as described."

No. 25,002. J. P. Emswiler, of Knight's Town, Ind., for an "Improvement in sewing machines."

"I claim the combination of the slide (M), or its equivalent, arranged substantially as described, with the feeding mechanism, for the purpose of adjusting the bed to the feeding mechanism, for materials of various thicknesses, without changing the position of the feeding mechanism. And I also claim, in combination with the bobbin, arranged as described, to vibrate on the shuttle race, the longitudinal arched pressure spring, arranged substantially as described, for the purpose set forth."

No. 25,003. Moses G. Farmer, of Salem, Mass., for an "Improvement in windlasses."

"I claim the combination of the roller A, the ratchet wheel B, the retaining ratchet F, and the actuating ratchet D, with the lever C, and toggle joint E, so arranged that the thrusting power of the toggle joint E shall be wholly exhausted when the lever C is fully depressed, and the joint E brought into a straight line, which intersects the axis I, and the point of the actuating ratchet, which is in contact with a tooth of the wheel B. I claim the means herein described of permitting the backward motion of the roller A, viz., by causing the motion of the lever C to release, alternately, the actuating and retaining ratchets, through the agency of such means as the springs N, K, the projecting arms L, M, and the proper position of the collar J, substantially as herein described."

No. 25,004. Chester N. Farr, of Philadelphia, Pa., for an "Improvement in sewing machines."

"What I claim, is, the arrangement of the fulcrum slide *r*, stops *q* and *s*, and looping bar *p*, for regulating and adjusting the motions of the looper, as set forth. And in combination with said looping bar, adjusted as described, I claim the rocking lever O, fitting and acting as specified."

No. 25,005. Benaiah Fitts, of Worcester, Mass., for an "Improvement in governor valves."

"I claim the manner of mounting the valve, substantially as herein described, that is to say, resting or supporting the valve, as shown at M, and retaining it into its seat, as shown at N, for the purposes set forth."

No. 25,006. Perley F. Freeland, of Newark, Ill., assignor to V. R. David, of Morris, Ill., for an "Improvement in cultivators."

"What I claim, is, the arrangement of the tongue A, curved or segment bar B, beams E, E, with screw rod *c*, and pendants d^1, and shares F attached, substantially as and for the purpose set forth."

No. 25,007. Edwin Gomez, of New York, N. Y., for an "Apparatus for folding or wrapping papers."

"I claim the folders (*f*, *f*) formed with the lips (4, 4), and volutes (3, 3), in combination with the intermediate twisters (*i*, *i*), in the manner and for the purposes specified."

No. 25,008. Geo. P. Gordon and F. O. Degener, of New York, N. Y., for an "Improvement in printing presses."

"Claim.—1st, we claim combining with the tympan frame, the sheet holding and relieving nippers or grippers, for the purpose of holding the sheet, and for relieving the sheet, from the type, 2nd, we claim the combination of a cylinder

or segment of a cylinder, with its wheel bearers, the impression cylinder, roller pendants, and the racks or gearing. 3rd, we claim the frictionless roller, or its equivalent, in combination with the tympan frame, for the purpose of closing the tympan, and properly laying the sheet upon the form, in advance of the passage of the impression cylinder, or its equivalent. 4th, we claim operating the sheet holding and relieving grippers by or through the motion of the tympan. 5th, we claim attaching a tympan frame to an adjustable bed, in such a manner that they, at all times, shall retain their relative position towards each other, in the manner described. 6th, we claim hanging, hinging, or attaching the inking apparatus to the frame of the press, or to the press, in such a manner that it may be turned, swung, or set aside, so as to allow the workman to get at the form to make any necessary alterations, or to make the form ready, or for the purpose of using the bed as an imposing stone."

No. 25,009. Ralph Greenwood, of Altoona, Pa., for an "Improvement in fire-boxes of locomotive engines."

"I claim the midfeather C, when used in connection with a gas chamber D, and fire-box A, provided with openings e, f, g, h, the parts being arranged relatively with each other, to operate substantially as and for the purpose set forth. I further claim the two cylinders E, F, when applied to the orifices of the gas chamber and fire-box, and connected by a lever G, to operate simultaneously, as and for the purpose set forth."

No. 25,010. Leonard B. Griswold, of Pennfield, N. Y., for an "Improvement in potato diggers."

"I claim the employment of a rotating head or disc, having teeth or spurs arranged around an upright shaft, in a direction oblique to the axis thereof, in combination with the truck B, and driving wheels G, F, or their equivalents, for giving the required motion, substantially as and for the purpose set forth."

No. 25,011. W. D. Harrah and B. S. Baldwin, of Davenport, Iowa, for an "Improvement in seed planters."

"We claim, 1st, the combination and arrangement of the peculiarly constructed hopper F, f, f', f^2, f^3, regulating plate G, sliding frame H, slides h^2, pitmans b, edged leading wheels B, hinged seed tubes I, grooved covering wheels C, C, foot lever J, caster wheel D, and hand lever K, all substantially as and for the purpose herein described. 2nd, in combination with the hopper F, the arrangement of the foot lever J, and hinged bar i, when the latter is so hinged as to throw the points of the seed tube forward in their adjustment, or when the foot lever is depressed, substantially as and for the purpose described."

No. 25,012. Robert S. Harris, of Galena, Ill., for an "Improved water gauge for steam boilers."

"What I claim, is, the within specified manner of constructing and attaching the float stem to the boiler, whereby it is made to answer for carrying the float, and as an index for indicating the height of the water in the boiler, and, if desirable, as a trip for opening a valve for an alarm whistle, all in the manner and for the purpose herein described."

No. 25,013. James Harrison, jr., of New York, N. Y., for an "Improvement in sewing machines."

"I claim, 1, the switching lever (n) constructed and operated as herein set forth, for directing the thread to the beard or barb of the needle, and preventing the escape of the thread therefrom. 2nd, I claim controlling the feed and the switch by the raising or lowering of the needle, as set forth. 3rd, I claim rotating the needle, and carrying with it the thread, thus forming a twisted threaded loop, as described."

No. 25,014. Geo. R. Hay, of Berea, O., for an "Improved machine for cutting out wooden ware."

"What I claim, is, the rock shaft K, in combination with the hoop saw H, constructed and arranged as described, and operated by means of the pinion L, in the manner and for the purpose substantially as set forth."

No. 25,015. James Haynes, of Hollis, Me., for an "Improved wood saw frame."

"The parts which I claim as my invention are, the inclined plane, ratchet, and the nipper os strainer, as applied to the saw and frame, as described above and represented in the drawing accompanying these specifications."

No. 25,016. Stanislas Hoga, Wm. P. Piggott, and Septimus Beardmore, of Middlesex county, England, for an "Improved mode of generating and applying electric currents in telegraphing."

"We claim the application to telegraphic instruments of currents of electricity produced from metals or substances, arranged in the earth or in natural bodies of water, in the manner and for the properties and relations above described."

No. 25,017. Robt. Hooper, of Baltimore, Md., for an "Improvement in steam boilers."

"I claim, 1st, contracting that part of the boiler immediately above the fire flues, in combination with the widening and extending of that part which is beyond or in rear and above the end of the fire box, substantially as and for the purposes set forth. 2nd, forming a water circulating passage below, in rear, and above the fire box, and nearly or wholly isolating said passage from the fire box by means of a large space existing between the fire box and the partition walls of the said water circulating passage, substantially as and for the purposes set forth."

No. 25,018. Anthony Iske, of Lancaster, and Jacob B. Erb, of Conestoga Township, Pa., for an "Improved approach opening gate."

"We claim the arrangement of the platforms G, uprights H, to the lever J, with the connecting rod K, attached to the arm O, on the top of the slat Q, the groove b on the inside of the post B, for operating a series of cross slats, connected by pivots with the slats Q, R, as shown, when combined in manner set forth, or substantially the same."

No. 25,019. John W. Kingman, of Dover, N. H., for an "Improvement in machines for milking cows."

"I claim the teat cups or tubes partially covered at their upper ends with an elastic flange, substantially as described, which will yield for the insertion of the teat and gripe it so as to hold the cup upon the teat during the process of milking, and from a packing between edge of the cup and the teat which will be pressed against the teat by the external air when the internal air is exhausted, and in combination with the devices above claimed, I claim a vessel provided with an air pump and connected with said cup or cups by flexible tubes so arranged as to exhaust the air, and draw the milk from the cow, or other animal, substantially in the manner described."

No. 25,020. Ebenezer A. Lester, of Boston, Mass., for an "Improvement in railroad car wheels."

"I claim attaching the wheel D to its axle by means of the auxilliary hub E, with its recess f, and groove e, and the segmental ring H, or its equivalent, connected with the wheel, substantially as set forth."

No. 25,021. Theodore Lipshuts and Daniel C. Jones, of Balston Spa, N.Y., for a "Self-acting battery for scaring crows, &c."

"We claim the rising and falling box K, arranged with the slide g, and apertures p, and operating in combination with the dog J, and pulley E, substantially in the manner and for the purpose herein specified."

No. 25,022. Saml. W. Lowe, of Philadelphia, Pa., for an "Improvement in machines for milking cows."

"I claim the cup A, with its perforated diaphragm B, when constructed as described, to receive all the teats of the cow's bag, by having an opening in the diaphragm for each teat, and combined with an exhausting apparatus constructed substantially as herein described, and for the purpose set forth."

No. 25,023. Moses Marshall, of Lowell, Mass., for an "Improved device for making electro-magnetic currents constant or intermittent."

"I claim the spring g, so constructed and arranged, as to be insulated from or connected to the two ends of the helical wires, by springs l and k, or otherwise, essentially in the manner and for the purposes fully set forth."

No. 25,024. W. McElwee, of Shelbyville, Ind., for an "Improved kitchen safe."

"I claim the combination and arrangement of hollow posts B, with water cups D, arranged in the manner and for the purpose specified."

No. 25,025. E. McKenney, of Montgomery, O., for an "Improvement in seeding machines."

"I claim the arrangement and combination of the distributing disks L, levers N, check valves *q*, and buttons *u*, to operate together with the hammer *o*, and with the bell M, substantially as and for the purposes set forth."

No. 25,026. J. B. McMillan, of Tipton, Ind., for an "Improvement in seed planters."

"I claim the planting and covering apparatus, when constructed and arranged in the manner and for the purposes herein set forth."

No. 25,027. Adam Miller, of Mt. Pleasant, Iowa, for an "Improvement in underground draining machine."

"I claim the combination and arrangement of the mole with the drain protectors, as described, for the purpose of expeditiously and economically giving protection to the upper part of the ditch, and of disengaging the protectors from the mole plough, with facility after they are laid."

No. 25,028. Alexr. Miller, of Newbern, N. C., for an "Improvement in drivers for mill stones."

"I claim the employment or use of the friction rollers B, B, applied to the driver A, in connection with the plates C, C, or their equivalents, fitted in the recesses adjoining the eye of the stone or runner, for the purpose of forming proper bearing surfaces for the rollers, the whole being arranged, substantially as and for the purpose set forth."

No. 25,029. Saml. C. Moore, of Providence, R.I., for an "Improvement in hoops for skeleton skirts."

"I claim the corrugated sheet metal hoop for ladies skirts, described as a new article of manufacture."

No. 25,030. Oliver P. Moran, of Haynesville, Mo., for an "Improved device for holding together the panels of portable fences."

"I claim the arrangement of the notched projections, or projecting pieces of the upper and lower rails, in combination with the right angled notches *i*, *i*, in the end battens, substantially in the manner and for the purpose herein specified."

No. 25,031. Saml. Mowry, of Womelsdorf, Pa., for an "Improvement in cultivators."

"I claim the arrangement of the axles B^3, wheels B, stretch bars L, levers H, I, and L^3, frames M, wheel C, ratchet bar J, and cultivator bar P, the whole being constructed as described and set forth."

No. 25,032. A. A. Moss, of Philadelphia, Pa., for an "Improvement in hydro-carbon vapor apparatus."

"What I claim as new, and of my invention therein, and desire to secure by Letters Patent, is, the steam generator (A), and dryer (B), in combination with a distinct hydro-carbon vaporizer (C), the same being also connected with the retort (D), and the whole arranged together, so as to generate the steam and hydro-carbon vapor separately, and for their subsequent mingling and combination, substantially in the manner and for the purpose set forth and described."

No. 25,033. Matthew Mitchell, of Altona, Ill., for an "Improvement in corn planters."

"What I claim, is, the arrangement of the frame B, seats E and G, hoppers H, shoes S, and cutters N, with the device for operating them, in combination with the frame K, hung on the axle D, and with the slides operated as described, the whole being constructed and arranged substantially in the manner and for the purposes set forth."

No. 25,034. Don. J. Mozart, of Yellow Springs, O., for an "Improved arrangement of dead beat escapements."

"What I claim as my invention, and desire to secure by Letters Patent, is, the improved arrangement of the double 'scapers' G, G, with the star scape wheel E, or its equivalent, substantially as and for the purpose herein specified."

No. 25,035. Edward Norton, of Boston, Mass., for an "Improvement in skates."

"What I claim as my invention, and desire to secure by Letters Patent, is, the metal straps D and E, and the slotted plate J, and screw G, for tightening the skate to the foot, substantially as above shown."

No. 25,036. Marcus P. Norton, of Troy, N. Y., for an "Improvement in post marking stamps."

"What I claim, is, the blotter (J), connected or attached to the main part of any 'post office post marking stamp,' for the purpose of cutting and inking, blotting and effacing, so as to successfully cancel the frank, or postage stamp, of any letter, or any package, at the same time and operation of marking upon such letter or package the name of any post office, the year, the month, and the day of the month, substantially as and for the purpose herein set forth."

No. 25,037. Leonard Packard, of Galesburg, Ill., for an "Improvement in cultivators."

"I claim the arrangement of the beams P, the irons Z, Z^1, and the projection X, on the ends of the beam, the adjustable arms S, braces W, blades T, lifting rods 1, adjusting bar 3, lever 5, fulcrum 6, and hinged pole L, as described for the purposes set forth."

No. 25,038. J. J. Parker, of Marietta, O., for an "Improved egg-beater or churn."

"I claim the tube A, in combination with the band C, and grated bottom M, all constructed, arranged, and operating, substantially in the manner described."

No. 25,039. Horace Parkhurst, of De Kalb., Ill., for an "Improved clothes frame."

"I claim, the combination and arrangement of the standards A, the rails B, the head blocks C, the clasps E, the cords F, substantially as and for the purpose specified."

No. 25,040. Dubois D. Parmelee, of New York, N.Y., assignor to John A. Greene, of Beverly, Mass., for an "Improvement in mode of uniting solid substances."

"Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is, the method and process herein described, of uniting various substances or bodies of the same or different character and properties by the interposition between the surfaces of said substances or bodies to be united of one or more sheets or layers of india rubber and gutta percha separately, or when combined with the substances, such sheets or layers having previously been treated in the manner described, to produce the change specified herein, whereby on completion of said change a waterproof cement is obtained, which while it possesses the requisite rigidity and coherence to keep the bodies firmly and strongly united possesses a sufficient degree of elasticity to compensate for the expansion or contraction of the fibres of the bodies for the purposes substantially as set forth."

No. 25,041. Lawson G. Peel, of Webster county, Geo., for an "Improvement in corn planters."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the beam F, stock E, frame D, bolt *a*, hopper A, wheel B, and cylinder C, as described for the purposes set forth."

No. 25,042. Colwell P. Pool, of New Market, Ala., for an "Improvement in filing cotton gin saws."

"What I claim, is, the arrangement of the file case B, with the file holder *b*, and sleeves b^1, to operate in combination with the bar C, and with the slide E and ridge e^1, substantially in the manner and for the purpose specified."

No. 25,043. Wm. F. Pratt, of Bristol, Pa., for an "Improvement in sewing machines."

"What I claim, is, the construction of the thread case, with an angular projection *j*, extending across its center, and the construction of the slide ring or its equivalent, with a similar angular projection *l*, fitting to the said projection *j*, as described, and operating in combination therewith, in the manner substantially as herein specified, not only to prevent the turning of the thread case, but to check and control the loops in their passage over said case, thereby avoiding the use of separate thread controlling apparatus."

No. 25,044. James M. Quimby, Albert H. Brown, Geo. H. Renton, and James Criswell, of Newark, N. J., for an "Improved furnace for making iron direct from the ore."

"We claim, the arch (K), the hopper damper (E), the rods or bars (*o*, *o*, *o*, *o*,) arranged and operated substantially as described in the drawings. We also claim the dampers at the bottom of the tubes for discharging one or more tubes at the same time into one box or hopper as shown at fig. (2)."

No. 25,045. John B. Read, of Cold Spring, N.Y., for an "Improvement in apparatus for tanning."

"What I claim as my invention, and desire to secure by Letters Patent, is, an improved apparatus for tanning and other purposes, said apparatus consisting of one or a number of smooth porous or perforated surfaces of wood or other fixed material placed singly or in succession in open or closed vats or vessels, or arranged in pairs, so as to form closed hollow cases, upon which, skins or other substances to be operated upon, are to be smoothly stretched, and then the tannin or other fluids forced through them by hydrostatic or other pressure into the interior whence means of escape are provided as described within. I claim, also the use of tarpaulin, sheet metal, or other waterproof substances, in form of sheets to cover over the perforated parts of the cases not overlaid by the skins, &c., that the fluids used may be afforded no passage, except by percolating through the skins, &c."

No. 25,046. Chas. A. Robbe, of Augusta, Geo., for an "Improvement in gas retorts."

"What I claim, is, a gas generating chamber of a retort made in two parts when the said parts are constructed so as to lock together, and form a tight joint by the simple act of sliding one portion into gear with the other, substantially as herein set forth."

No. 25,047. Theodore B. Rogers, of Wethersfield, Conn., for an "Improvement in seed planters."

"What I claim, and desire to secure by Letters Patent, is, the arrangement of slides I, I^1, I^{11}, lever L, former G, floats H, adjustable pins E, and markers R, as described, for the purpose set forth."

No. 25,048. James Rue, of Englishtown, N. J., for an "Improvement in cultivators."

"I claim the arrangement of the loose draft pole G, bracket *f*, cultivator frame B, H, hinged rods *a*, b^1, devices *i*, *j*, *h*, bracket *d*, and pin *c*, all arranged and operating substantially in the manner and for the purposes herein described."

No. 25,049. Ezra D. Sargent, of Indianopolis, Ind., for an "Improvement in seats and couches for railroad cars."

"What I claim is, 1st, the side lounge G, or nurse couch, constructed and arranged as and for the purpose set forth; and, 2nd, its combination with the backs *a*, L, M, seats F, G, H, J, partitions P, brackets Z, and stops V, all arranged, constructed, and operated substantially as set forth in the foregoing specification."

No, 25,050. John Shaeffer, of Lancaster, Pa., for an "Improvement in grinding cylinders for apple mills."

"What I claim as my invention, and desire to secure by Letters Patent, are, the tangential, curved, longitudinal toothed cylinders A, B, as set forth and described."

No. 25,051. John P. Sherwood, of Fort Edward, N. Y., for an "Improvement in nail-plate feeders."

"What I claim as my invention, and desire to secure by Letters Patent, is, the employment of the stationary inclined plane N, and the tumbler O, having an inclined face *k*, in combination with the arms *m*, m^1, of the hollow shaft P of the plateholder, and with the feed screw and nut, and the driving cam D, or their equivalent, the whole operating together substantially as herein described to produce the several movements specified."

No. 25,052. Evan Skelly, of Plaquemine, La., for an "Improvement in apparatus for heating evaporating pans."

"I claim the employment, in an evaporating pan, of a conical steam heater, with a central opening and a passage around its exterior and under its bottom, substantially as herein described."

No. 25,053. N. B. Slayton, of Madison, Ind., for an "Improvement in securing artificial teeth."

"I claim, 1st, securing artificial teeth upon plates of gold or silver by means of an amalgam of gold or silver, or both combined with mercury, substantially as herein described for the purposes set forth. 2nd, I claim forming, by means of said amalgam, an outer flange or rim (*a*), covering and supporting the base of the teeth, substantially as and for the purposes set forth."

No. 25,054. Solomon P. Smith, of Crescent, N. Y., for an "Improvement in straw-cutters."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the arrangement of a crank shaft M, pitman N, knee-jointed lever F, and knife O, with a straw box B and cutter block D, for conjoint use, as herein specified and shown by the annexed drawings."

No. 25,055. Abel Spencer, jr., of Southport, N. Y., for an "Improved mortising machine."

"I claim the frame (Fig. 2) made with cross heads, connected together by means of the jointed rods (J, J), and having those rods jointed at or nearly in line with the cutting edge of the chisel, and the mode of applying or using it, or any other manner substantially the same."

No. 25,056. La Fayette Stevens, of Elmira, N. Y., for an "Improved machine for tenoning blind slats."

"What I claim as my invention, and desire to secure by Letters Patent, is, constructing the cutter head with grooved checks *f*, clamping nuts *k*, and bearing studs *j*, whereby the plane cutter knives *g* are held in an oblique position with the plane of rotation, with the cutting edge of the operating one terminating in conjunction with that of the hollow hub *h*, and shoulder *e*, arranged and operating substantially as and for the purposes set forth. I also claim the combination and arrangement of the rest K with stationary and movable upper and lower jaws *o*, *p*, and gauge *q*, substantially in the manner and for the purpose described. I further claim the arrangement of devices for gauging the length of the slat, consisting of the automatic stop bolt *t*, as operated by inclined plane *u*, and lever *v*, to cause the carriage to stop alternately at the fixed stop gauge S and *w*, substantially as herein described."

No. 25,057. Stephen Stewart, of Philadelphia, Pa., for a "Burglars' alarm."

"I claim, and desire to secure by Letters Patent, the combination of the several parts A, B, C, D, E, F, G, H, I, J, K, L, M, N, and O, as described and arranged to operate substantially as and for the purposes set forth."

No. 25,058. Wm. A. Suddith and John F. Suddith, of Charlestown, Va., for an "Improved washing machine."

"We claim the hinged part of cylinder, as set forth in drawing at Figure 7."

No. 25,059. Geo. S. Tapley, of Bristol, Conn., for an "Improvement in sewing machines."

"I claim the movable cup *g*, and its appendages, for griping and automatically releasing the shuttle at intervals, substantially as specified. I also claim the construction and arrangement of the feed apparatus, as and for the purpose herein set forth."

No. 25,060. Horace Trumbull, of Jersey City, N. J., for an "Improvement in machines for washing and separating ores, after being pulverized."

"What I claim, is, the application to a rotary buddle or table, such as herein-above described, of vibrating brushes, when the same are arranged and operated essentially as herein-above specified."

No. 25,061. Otis Tufts, of Boston, Mass., for an "Improvement in elevators or hoisting apparatus for hotels, &c."

"1st, I claim, for the purpose of elevating, the combination of the screw and the passenger car, or platform. 2nd, I claim the construction of a screw for elevating, having stays or bearings at intervals, attached to the wall of a building or any fixed adjacent structure. 3d, I claim the construction of a nut, with a slot or opening in the back or side, to enable it to pass by the bearings or stays before referred to, and as herein before described. 4th, I claim constructing a nut or carriage, with wheels or rollers, running upon the thread of

the screw, substantially as described. 5th, I claim controlling the descending motion of elevators, or hoisting apparatus, by means of fluid retarders, constructed substantially as described. 6th, I claim regulating the action of fluid retarders by means of a fly-ball governor, or its equivalent, substantially as described. 7th, I claim the construction, arrangement, and operation of passenger cars, of an elevator or hoisting apparatus, substantially as described; that is, providing the platform with side walls and doors, or gates, said doors or gates being combined with suitable mechanism, arranged in relation to stationary cams or projections on the gallery floors, or any contiguous parts of the building, so as to open and close automatically, in the manner and for the purposes substantially as set forth. 8th, I claim opening and closing the doors of the galleries, or landings, automatically by means of cams or projections on the car, through a system of compound or multiplying levers, constructed and arranged, substantially as herein described, and for the objects herein set forth. 9th, I claim fastening and unfastening, automatically, the doors or gates of the car, by spring latches, or their equivalents, operated by cams or projections upon the gallery floors, or adjacent walls of the building, substantially as described. 10th, I claim fastening and unfastening, automatically, the doors or gates of the galleries or landings by spring latches, or their equivalent, operated by cams or projections upon the car, substantially as described. 11th, I claim the arrester a^1, in combination with the fluid retarder, for the objects and purposes set forth. 12th, I claim passing the shipping rods, and the cord or rod that operates the friction brake, through the car or platform, for the objects and purposes set forth."

No. 25,062. Wm. B. Twiford, of Chincoteaugue, Va., for an "Improvement in dumping wagen."

"I claim the three-sided four wheel open frame C, stationary crank axle B, and long wagon body D, when constructed and arranged for operating together, in the manner and for the purpose herein described."

No. 25,063. Felix Tylee, of Cleveland, O., for an "Improved spring bed bottom."

"I claim, 1st, the central support (C) when the same shall be constructed substantially in the manner and for the purpose herein set forth and described. I claim the combination and arrangement of upper slat (D), pin (*e*), supports (*f*, *f*), with central support (*c*), spring (*d*, *d*), and blocks (*a*, *a*), when all shall be constructed and arranged in relation to each other, as herein fully set forth and described."

No. 25,064. Lorenzo Tyler, of Havana, N. Y., for an "Improvement in machines for sowing fertilizers."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the frame A, hopper B, partition N, adjustable slide M, valve L, cylinder H, concave I, adjustable slide J, and flexible clasps K, the whole being constructed and operated as and for the purpose set forth."

No. 25,065. Geo. H. Van Vleck and Horace Tupper, of Buffalo, N. Y., for an "Improved hose coupling."

"We claim the arrangement on the thimble A^1, of the head C, with two or more screw threads D, having its upper end turned down, as described, and being provided with a projecting rim E, to operate in combination with the thimble A, and with the nut B, substantially as and for the purpose set forth."

No. 25,066. Amsey Warren, of Westport, Conn., for an "Improvement in cultivators."

"I claim the parting or deflecting bar D, hoes or shares E, E, F, G, and rake C, when applied to a suitable frame A, provided with wheels B, the whole being arranged and combined to operate as and for the purpose set forth."

No. 25,067. James F. Waterhouse, of Germantown, Pa., for an "Improvement in knitting machines."

"I claim, firstly, the application of a drum 5, or its equivalent, with detachable pegs to operate a series of independent thread guides, having independent springs when constructed and operating substantially as herein set forth and for the purposes specified. Secondly, the striker V, or its equivalent, constructed and arranged in respect to the thread guides, and operating substantially as specified, so as to control such of the thread guides as are not under the control of any of the pegs in the drum. Thirdly, moving the pegged drum, or its equivalent, at intervals, first in one direction and then in another, by means of the revolving disk 3, and its two inclined projections, in combination with the ratchet wheel 2. Fourthly, imparting a combined lateral and vertical reciprocating motion to the needle bars, by means of the devices herein described, or their equivalents."

No. 25,068. Jeptha Avery Wilkinson, of Brooklyn, N. Y., for a "Machine for receiving and piling paper."

"I claim, first, the accelerating bands p^1, p^2, and roller *o*, arranged and acting as set forth, to project the sheets of paper successively over each other, as they subside in the air, and in combination with the foregoing parts I claim the endless apron receiving such sheets, as specified. Second, I claim the retarding bands *q* and *s*, *s*, and q^2, in combination with the delivering bands p^1, p^2, for the purposes as specified."

No. 25,069. Jeptha Avery Wilkinson, of Brooklyn, N. Y., for an "Improvement in rotary presses."

"I claim first, the curved demi grab *c*, with the sliding clamp 6 and lip 5, for the purposes and as specified. Second, I claim the curved compositor's shield c^3, for the purposes and as specified. Third, I claim the arrangement of the proof cylinder B, and rollers C, *b*, for inking the type on the proof cylinder, as described and shown. Fourth, I claim the plate a^1 and roller b^2, for giving pressure in taking a proof from the types on the cylinder B, as set forth. Fifth, I claim the horizontal gudgeon a^3, and binding screw to secure the proof cylinder, and facilitate the correcting of the types, as set forth. Sixth, I claim the movable clamping segments *d*, at the heads of the type or proof cylinders, to secure the types in place, and also allow for the removal of portions thereof, as specified. Seventh, I claim revolving the type cylinders in a trough containing alkaline or other suitable solutions for washing the types, as specified. Eighth, I claim the apron *f*, for leading the paper into the press, and on which said paper lies while receiving the first impression against the cylinder K, thereby said feeding apron becomes also the tympan sheet, as set forth. Ninth, I claim a curved arch or bridge over which the paper or fibrous material passes to give direction thereto, and prevent buckling or twisting, as described and shown. Tenth, I claim corrugating or forming ribs on said curved bridge in diverging lines so as to spread the paper widthways as the same passes over the bridge, as specified. Eleventh, I claim the auxiliary frame F^1, hinged on to the main frame F, and carrying the upper inking apparatus, by the elevating of which both type cylinders are exposed to view or can be lifted out of their place for varying the composition, or otherwise, as set forth. Twelfth, I claim the manner herein specified of throwing off both impressions by raising the auxiliary frame F^1 and lowering the impression roller K, for the purposes and substantially as described and shown. Thirteenth, I claim, in a rotary printing press and endless tympan sheet, led off a sufficient distance and so fitted that the offset from the ink of the first impression does not again reach the paper until removed or sufficiently dry, so as not to produce blurring or offset on the paper, as specified. Fourteenth, I claim the arrangement of the ink rollers l^1, l^2, l^3, l^4, in the manner and for the purposes set forth, whereby the rollers l^1, l^2, act to supply the required amount of ink to the rollers l^3, l^4, that supply and work the ink on the cylinder (I or I^1), as specified. Fifteenth, I claim the arrangement of the ink rollers (i^1) and workers (k, k^1,) in their adjustable bearings (i^2, k^2), substantially as and for the purposes set forth."

No. 25,070. Eri Wills, of Augusta, Me., for an "Improvement in stump extractors."

"I claim the combination of the frame O, O, tongue P, and shaft A, with the wheels R, R, ratchet device H, G, I, levers F, F, and chain B, constructed and arranged in relation to each other as and for the purposes set forth."

No. 25,071. A. P. Winslow, of Cleveland, O., for an "Improvement in roofs for railroad cars."

"What I claim as my improvement, and desire to secure by Letters Patent, is, the plates D, caps F, and grooved rafters B, when arranged substantially as herein set forth, for the purpose described."

No. 25,072. J. F. Wisnewski, of Cincinnati, O., for an "Improvement in preparation of glycerine."

"I claim as my invention or discovery, and desire to secure by Letters Patent, is, the employment or use and introduction of the within-named chemicals in the relative quantities, manner, and combination herein described, for the purposes set forth."

No. 25,073. Edwd. F. Woodward, of Brooklyn, N. Y., for an "Improvement in skeleton skirts."

"What I claim as my invention, and desire to secure by Letters Patent, is, the sectional extension skirt when combined with and attached to the circular skirt, the whole being arranged and constructed in the manner and for the purpose set forth."

No. 25,074. Albert H. Wright, of Camden, N. J., for a "Composition of matter for ornamental purposes."

"I claim the composition of matter described, the same consisting of the clay and sulphur, with the emery, or its substitute, combined together, substantially as and for the purposes described."

No. 25,075. John K. Wright, of Philadelphia, Pa., for a "Machine for printing in different colors."

"I claim hanging the rollers used for printing separate colors and patterns on separate frames D, E, and constructing and arranging the said frames so that they may be adjusted independently of each other on the rails B, as and for the purpose herein set forth."

No. 25,076. Nathan Ames, of Saugus, Mass., assignor to himself and Ward McLean, of New York, N. Y., for an "Improvement in revolving stairs."

"I claim, 1st, arranging steps or stairs upon an endless belt, or in any manner equivalent, and placing them over rollers, substantially as described, so as to form a revolving flight of stairs, which may be used both as a common flight and as an elevator. 2nd, the triangular arrangement of the stairs, as shown substantially in Fig. 3, whereby an endless flight is made to pass around three rollers B, D, D, for the purpose described. 3rd, the double parallel arrangement, as shown substantially in Figs. 1 and 3, whereby ascending and descending flights are placed side by side. 4th, the use of auxiliary stationary steps or stairs, to operate in connection with the revolving stairs, substantially as and for the purpose set forth. 5th, the employment or use of rods or slots, to operate in connection with the slotted stairs, substantially as described, and for the objects specified."

No. 25,077. L. S. Baldwin and Lucius Parks, of Le Roy, N. Y., assignors to L. S. Baldwin aforesaid, for an "Improved construction of lightning rods."

"I claim the employment of a quadrangular tube of sheet metal with spiral fluted sides A, in combination with the straight central supporting rod B, substantially in the manner and for the purpose herein set forth."

No. 25,078. R. Eickemeyer, of Yonkers, N. Y., assignor to himself and E. Underhill, of same place, for an "Improvement in sewing machines."

"First, I claim the combination of the angular supporting plate F, with a needle applied and arranged to work through on opening in the angle of the said plate, and obliquely to both faces of the said plate, substantially as described, for the purpose of sewing obliquely through any substance supported in the angle of said plate. Second, I claim the combination of the angular supporting plate, the obliquely arranged needle, and a looper applied and operating so as in its movements to follow the angle of the said plat e, substantially as herein described. Third, I claim the combination of the looper *v*, *w*, constructed with a two pronged hook, and having a triple movement as described, with a stationary guide 25, applied and arranged relatively to the needle and the angular supporting plate, substantially as herein described. Fourth, I claim the arrangement of the feeding dog and presser, in a swinging frame I, so applied in combination with the angular supporting plate, as to provide for the introduction and removal of the hats to and from the machine, substantially as herein described. Fifth, though I do not claim broadly, the use of a sliding plate fitted to the bed, or work-plate of a sewing machine opposite to the feeding dog, yet, I claim the slide, fitted as described, to the angular plate F, opposite the feeding dog, with its face recessed behind the general surface of the plate, as shown in figure 7, and having applied to it a spring S, by which it is operated as described, in combination with the feeding dog, for the purpose herein set forth. Sixth, I claim the plate 26, with its lips 27, 28, applied substantially as described, in combination with the plate F."

No. 25,079. Asahel Elmer, of Shabbona Grove, Ill., assignor to Nathan Elmer and R. M. Prichard, of same place, for an "Improvement in portable capstan and crab."

"I claim, so combining with the truck wheels, or ground supports, a capstan and crab, and a flexible rigging, as that the power of the team that draws the apparatus and works the capstan, may be used for setting or anchoring the said crab and capstan, as well as to raise it up, reload it on the truck, and transport it from place to place, substantially as described."

No. 25,080. Isaac Godspeed, of Norwich, Conn., assignor to himself and Geo. A. Mansfield, of Boston, Mass., for an "Improvement in bomb lance."

"1st, I claim the compound wing herein described, consisting of wing proper (*a*), the lever (*f*), and the pin and slot at (*g*), the whole being combined, arranged, and operated substantially as herein set forth. 2d, I claim the constructing of a projectile having a prismatic shank with guiding wings of copper or any thin substance fixed to the exterior surfaces of the prism, in such a manner as to expand in coincident plates, substantially in the manner and for the purposes set forth."

No. 25,081. Louis Koch, of New York, N. Y., assignor to himself and H. Forstrick, of same place, for an "Improved railroad station indicator."

"I do claim as new, and desire to secure by Letters Patent, the apron or band K, with the names of the streets or stations on the line of the route marked thereon, attached to and working on rollers I, I, or a revolving plate, or stationary plate and revolving index, when said apron, plate, or index are operated from the running gear of the car, by suitable mechanism, to give the same a continuous movement, and simultaneous with that of the car, for the purpose herein set forth."

No. 25,082. Morris Pollak, of Hoboken, N. J., assignor to Morris Talkenan, Morris Pollak, and Solomon Weiner, of same place, for a "Double clasp hook for watch chains, &c."

"I claim the S shape or double clasp hook, formed by the disks *b*, *b*, and clasp jaws *d*, *d*, on the center pin *c*, that passes through the middle of the bent piece *a*, substantially as set forth."

Designs.

Robert Ham, of Troy, N. Y., assignor to Smith, Sheldon, and Co., of same place, for a "Design for parlor stoves."

"I claim the above described ornamental design for a parlor stove."

Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Co., for a "Design for carpet patterns."

"I claim the design or pattern for carpets herein set forth."

Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Co., for a "Design for carpet patterns."

"I claim the design or pattern for carpets herein set forth."

Isaac de Zouche, of St. Louis, Mo., for a "Design for parlor coal stoves."

"I claim the ornamental shape and configuration of the stove-plates and doors represented in the accompanying drawings."

Nathaniel E. Russell, of New York, N. Y., for a "Design for table forks."

"I claim the configuration of the neck and stem as shown and described, to form a new and original design for a table fork."

Disclaimer.

William Blake, of Boston, Mass., for an "Improvement in gas burners."—Patent dated 9th August, 1845.—Disclaimer filed 5th August, 1859.

"I hereby enter my disclaimer to that part of said burner which was set forth and claimed as the bell shape or mouth of the lower part of the inner case of said burner."

Extension.

William Blake, of Boston, Mass., for an "Improvement in gas burners,"—Patent dated 9th August, 1845.

"I claim the combining with the space (*d*, *d*,) directly beneath the orifices of discharge of the gas, and with the

supply or branch tubes *f*, *f*, an expansive chamber *e*, *e*, so as to operate in the manner and for the purpose herein-before set forth. I also claim, making the lower part of the inner case of the burner, with a bell-shaped opening or mouth, in the manner and for the purpose as above specified."

ADDITIONAL IMPROVEMENTS.

AMOS ADAMS RICHARDS, of Urbana, Ohio, for an "Improved lock." — Patented 15th February, 1859.—Additional improvement dated 9th August, 1859.

"I claim the arrangement of the spring *f*, collar *a*, ring *x*, screw *u*, brake wheel W, and arbor S, in the manner above described, so as to produce friction between the ring *x*, and wheel W, and arbor S, and also the arrangement of the brake K, indented flange W, and stem *a*, as above described, so as to prevent the revolution of the wheel W and arbor S, and ring *x*, and the external dial hand, substantially as above described."

FREDERICK YEISER, of Lexington, Ky., for an "Improvement in instrument for taking altitudes of the sun."—Patented 8th February, 1859.—Additional Improvement dated 9th August, 1859.

"I claim, in combination with the rotary bar E, the arrangement of the adjustable bar F, and dial plate R, and rotary cylinder H, and adjustable disk D, in connection with the bar K, and plates *a*, *a*, holding the lens and *e*, *e*, having on its face a small square 3, to receive the sun's image through the lens, in such relation to each other and to the rotary bar E, that it operates substantially as and for the purposes specified."

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Notices to Proceed.

NOTICE is hereby given, that

949. GEORGE ASHCROFT, of Cardiff, in the county of Glamorgan, Engineer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in working presses and other hydraulic machines."

As set forth in his petition, recorded in the said office on the 15th day of April, 1859.

954. And JOHN GLASGOW and SAMUEL HAND, of the city of Manchester, in the county of Lancaster, have given the like notice in respect of the invention of "An improved variable circular motion, applicable to slotting, shaping, and planing machines or similar purposes."

As set forth in their petition, recorded in the said office on the 16th day of April, 1859.

967. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "An improved machine for raising water."—A communication from abroad by M. Dupré, of No. 10, Rue Mogador, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 18th day of April, 1859.

992. And QUIN BECK, of the firm of James Meharg and Co., of Belfast, in the county of Antrim, Manufacturers, has given the like notice in respect of the invention of "Improvements in stoves."—A communication from abroad by James Cherry, of Vermont, U.S.

As set forth in his petition, recorded in the said office on the 20th day of April, 1859.

1008. And EDWARD CLARK, of New York, in the United States of America, but now of Morley's Hotel, in the city of Westminster, Gentleman, has given the like notice in respect of the invention of "Improvements in sewing machinery."—A communication from abroad by Isaac Merritt Singer, of New York, aforesaid.

As set forth in his petition, recorded in the said office on the 21st day of April, 1859.

1020. And PIERRE LEONARD MARC DEBAIN, of Paris, France, Gentleman, has given the like notice in respect of the invention of "Improved means for transmitting motive power to ships, pumps, and other arrangements by which the displacement of fluids is effectuated."

1024. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "An improvement in the manufacture of woollen cloth."—A communication from Louis Victor Lemaignen, residing at Lisieux, France.

1025. And JOHN MARSHALL, junior, of Selby, in the county of York, Gentleman, has given the like notice in respect of the invention of "Improvements in filtering and depurating fluids."

As set forth in their respective petitions, all recorded in the said office on the 23rd day of April, 1859.

1036. And AUGUSTUS WILLIAM GADESDEN, of 56, Leman Street, Goodman's Fields, has given the like notice in respect of the invention of "Improvements in producing solutions of sugar."

1037. And EDWARD HUMPHRYS, of Deptford, has given the like notice in respect of the invention of "Improvements in steering apparatus."

1039. And HENRY COLUMBUS HURRY, of Wolverhampton, in the county of Stafford, Civil Engineer, has given the like notice in respect of the invention of "Improved means of and apparatus for obtaining motive power."

As set forth in their respective petitions, all recorded in the said office on the 25th day of April, 1859.

1045. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of nitric acid, and its application for the production of artificial nitrous or nitric salts."—A communication from abroad by Madame Lefebvre, of Paris, in the empire of France.

1048. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, has given the like notice in respect of the invention of "Improvements in vulcanizing and colouring caoutchouc, and in the preparation of caoutchouc paints and colors." — A communication from abroad by Theophile Julien Laballe, of Paris.

1049. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E. C., Patent Agent, has given the like notice in respect of the invention of "Improvements in steam boilers."—A communication from abroad by Theodore Nicolas Meynier and Louis Albert Le Bleu, of Paris.

1050. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for combing wool and other fibrous substances."—A communication from abroad by Cullen Whipple, of the city and county of Providence, in the state of Rhode Island, United States of America.

As set forth in their respective petitions, all recorded in the said office on the 26th day of April, 1859.

1061. And THOMAS LACEY, of Grafton Street, in the city of Westminster, Gas Engineer, has given the like notice in respect of the invention of "Improvements in gas regulators."

1062. And Sir THOMAS TASSELL GRANT, K.C.B., of 20, Chester Terrace, Regent's Park, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in ships' cooking apparatus."

As set forth in their respective petitions, both recorded in the said office on the 27th day of April, 1859.

1067. And ROBERT HARRINGTON, Watch Maker, of No. 3, Colonnade, Albany Road, in the parish of Camberwell, county of Surrey, has given the like notice in respect of the invention of "Improvements in umbrellas and parasols."

1072. And JOHN WHEAT, of Hinckley, in the county of Leicester, has given the like notice in respect of the invention of "Certain improvements in drilling machines employed for agricultural purposes."

As set forth in their respective petitions, both recorded in the said office on the 28th day of April, 1859.

1076. And WILLIAM CORBETT, of Clayton, near Manchester, in the county of Lancaster, and WILLIAM CARMONT, of the same place, Iron and Steel Manufacturers, have given the like notice in respect of the invention of "Certain improvements in the construction and arrangement of furnaces employed in the manufacture of iron and steel, and for other similar purposes."

1079. And EDGAR ANDREW PORTEUS, of 18, Warwick Square, Paternoster Row, Engraver and Printer, and WILLIAM HENRY BURKE, of 79, Cannon Street West, Manufacturer, have given the like notice in respect of the invention of "Improvements in printing and other presses."

As set forth in their respective petitions, both recorded in the said office on the 29th day of April, 1859.

1107. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in obtaining or extracting quinine and the principal organic alkalies." —A communication from abroad by Lalouel de Sourdeval, 22, Rue Bergère, Paris.

As set forth in his petition, recorded in the said office on the 3rd day of May, 1859.

1129. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in seed depositors or drills."—A communication from abroad by Louis Achille Pruneau, formerly Notary of Paris.

As set forth in his petition, recorded in the said office on the 5th day of May, 1859.

1259. And EUGÈNE PASQUIER, Mechanic, residing at Reims, Hinemar, Prolongée Street, Marne, in the empire of France, has given the like notice in respect of the invention of "Apparatus for drying wool and all filaceous matters."

As set forth in his petition, recorded in the said office on the 23rd day of May, 1859.

1318. And THOMAS WILSON, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "Improvements in breech loading fire arms and ordnance."

As set forth in his petition, recorded in the said office on the 28th day of May, 1859.

1440. And SIMON LEVY, of the city of Manchester, in the county of Lancaster, Cap Manufacturer, has given the like notice in respect of the invention of "Improvements in hats, caps, or coverings for the head."

1443. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "An apparatus for regulating individually the pressure, expenditure, and light in gas burners."—A communication from abroad by Edward Ferguson, of No. 10, Rue Mogador, Paris, in the empire of France.

1444. And LÉON BARROUX, of No. 10, Rue Mogador, Paris, in the empire of France, has given the like notice in respect of the invention of "A new system of railroad, supported on iron soles with or without wood being used."

As set forth in their respective petitions, all recorded in the said office on the 16th day of June, 1859.

1500. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in apparatus for winding thread of cotton or linen or other fibrous materials or sewing silk or similar articles upon bobbins or spools.'—A communication from abroad by Lawson C. Ives, of Hartford, Connecticut, United States of America.

As set forth in his petition, recorded in the said office on the 22nd day of June, 1859.

1572. And EDWIN ARCHER WOOD, of Victoria Terrace, Notting Hill, in the county of Middlesex, of the Peninsular and Oriental Steam Navigation Company, and MARTIN DADD ROGERS, of Bromley, in the county of Middlesex, Shipwright, have given the like notice in respect of the invention of "Improved apparatus for raising and lowering boats."

As set forth in their petition, recorded in the said office on the 1st day of July, 1859.

1601. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "An apparatus for washing wool, manufactured or not, and all other matters."—A communication from abroad by Eugène Pasquier, No. 10, Rue Mogador, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 6th day of July, 1859.

1749. And CHARLES WESLEY SMITH, of the town of Evans, county of Erie, and state of New York, Electrician, has given the like notice in respect of the invention of "Improvements in electric telegraphs, and in the apparatus connected therewith."

As set forth in his petition, recorded in the said office on the 28th day of July, 1859.

1774. And WILLIAM CAMPBELL, Machinist, and GEORGE WORSTENHOLM, Machinist, both of Birmingham, in the county of Warwick, have given the like notice in respect of the invention of "Certain improvements in machinery for the manufacturing of wrought nails, as also in the treatment of the iron from which such or other kinds of nails may be made."—Partly a communication from abroad by George William Allen, of Rhode Island, United States of America.

As set forth in their petition, recorded in the said office on the 1st day of August, 1859.

1840. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "A new and useful method of manufacturing the vulcanized compounds of vulcanizable gums."—A communication from abroad by John Murphy, of the city, county, and state of New York.

1843. And JOHN DYER BRYANT, of Rock, in the county of Cornwall, Merchant, has given the like notice in respect of the invention of "Improved superphosphate of lime."

As set forth in their respective petitions, both recorded in the said office on the 9th day of August, 1859.

1872. And JOHN STUART, of Musselburgh, in the county of Mid-lothian, North Britain, and WILLIAM STUART, of the same place, Manufacturers have given the like notice in respect of the invention of "Improvements in nets for fishing, and for other purposes."

As set forth in their petition, recorded in the said office on the 13th day of August, 1859.

1903. And WILLIAM WILSON, of Glasgow, in the county of Lanark, North Britain, Brick Maker, has given the like notice in respect of the invention of "Improvements in the manufacture or production of bricks, tiles, and other articles of earthenware, and in the machinery or apparatus employed therein."

As set forth in his petition, recorded in the said office on the 18th day of August, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 27th August*, 1859, *inclusive.*)

26th August.

2006. BERNARD AUGUSTUS GRAUTOFF and CHARLES HENRY WILLIAM ALBRECHT, both of Lime Street Square, in the city of London, Merchants, for an invention of "Improvements in the construction of pressure and vacuum gauges."—A communication.—Dated 28th August, 1856.

2007. THOMAS WATSON, of the firm of Gerardin and Watson, of Poland Street, in the county of Middlesex, Pewterers, for an invention of "An improved beer-engine lever or lifter, and apparatus for fitting the same to counters."—Dated 28th August, 1856.

2102. CHARLES BROOK the younger, of Meltham Mills, near Huddersfield, in the county of York, for an invention of "An improvement in polishing or finishing yarns, threads, and woven fabrics."—Dated 9th September, 1856.

27th August.

2023. JOHN GREGORY, of Nelson Square, in the county of Surrey, for an invention of "An improved fish joint or method of connecting rails."—Dated 30th August, 1856.

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 18th August, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 588 of this Journal.)

7722. F. de Lannoy, of Koekelberg, for "A manometer."—Dated 6th July, 1859.

7730. M. C. Halleux, of Verviers, for "A system of moveable boxes for weaving, by means of various shuttles."—Dated 8th July, 1859.

7783. A. Prince, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in ornamenting and illuminating glass surfaces." — Dated 22nd July, 1859. — (English Patent, 22nd December, 1858.)

7787. Mrs. Dewit, represented by C. Joterat-Jacquier, of Brussels, for "An apparatus for hardening caoutchouc for dental purposes."— Dated 23rd July, 1859.

7808. Eng. Delaire, represented by H. Biebuyck, of Brussels, for "An apparatus for heating and ventilating hot-houses."—Dated 28th July, 1859.

7828. J. H. Leroy, represented by H. Biebuyck, of Brussels, for an imported invention of "A smoke-consuming apparatus worked by exhaustion."—Dated 2nd August, 1859.—(French Patent, 27th May, 1857.)

7829. D. Edwards, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in hydraulic apparatus, applicable as motors to all kinds of machines."—Dated 2nd August, 1859.—(English Patent, 16th June, 1859.)

7830. D. A. Woodward, represented by A. Anthoim, of Brussels, for an imported invention of "A solary chamber for obtaining photographs."—Dated 3rd August, 1859.—(French Patent, 21st October, 1857.)

7831. A. Demaret, of Brussels, for "A rotary steam engine."—Dated 4th August, 1859.

7832. F. A. Harel and Bonière, junr., represented by H. Biebuyck, of Brussels, for an imported invention of "A system of movement of rudders with double endless screws."—Dated 4th August. 1859.—(French Patent, 9th June, 1859.)

7833. J. E. de Bienville, represented by H Biebuyck, of Brussels, for an imported invention of "A mechanism for obtaining a perpetual movement." — Dated 4th August, 1859. — (French Patent, 27th July, 1859.)

7834. De Dorlodot, Brothers, of Brussels for "A system of rails with continuous wedges."— Dated 4th August, 1859.

7836. V. Cantillon, of Diest, for "A means of rendering beer inalterable and sparkling."—Dated 5th August, 1859.

7837. P. Lejeune-Chaumont, of Liége, a Patent of Improvement for "Breech-loading fire-arms of one single piece with metal projectiles."—Dated 5th August, 1859.

7838. L. Marquebreucq, of Deux-Acren, for "A system of bells with independent clappers." — Dated 7th August, 1859.

7839. Ch. Damien, represented by A. Depuichault, of Schaerbeek, for an imported invention of "A system of Venetian blinds with small chains."— Dated 5th August, 1859.—(French Patent, 22nd March, 1859.)

7840. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "A metallic alloy."—Dated 5th August, 1859.—(English Patent, 24th February, 1859.)

7841. J. H. Vallée, represented by J. Piddington, of Brussels, for "Improvements in the manufacture of candles with double wicks."—Dated 5th August, 1859.

7842. S. S. Bateson, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in the means and apparatus for generating superheated steam."—Dated 5th August, 1859.—(French Patent, 29th July, 1859.)

7843. B. Andrede, represented by Ch. Halot, of Molenbeek St. Jean, for "An apparatus for reconveying the water used for condensing the water of serpentines and double bottoms of heating apparatus."—Dated 5th August, 1859.

7844. L. A. Binant, represented by O. Dardenne, of Liége, for an imported invention of "An article used for shaving, called 'napkin block.' "—Dated 5th August, 1859. — (French Patent, 1st July, 1859.)

7845. J. T. Trotter and J. F. Williams, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in the manufacture of caoutchouc tissues or tissues composed of gum or other substances."—Dated 6th August, 1859. — (French Patent, 2nd August, 1859.)

7846. H. Dautribande and F. Thiry, of Huy for "A machine for making endless paper."— Dated 8th August, 1859.

7847. J. Huytens, of Ghent, for "An apparatus for pressing cramps."—Dated 5th August, 1859.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7849. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the manufacture of cast steel."—Dated 8th August, 1859.—(English Patent, 24th February, 1859.)

7850. J. B. Nicklin, represented by R. Culliford, of Brussels, for "Improvements in heating locomotive or stationary engines."—Dated 8th August, 1859.

7851. J. B. de Bont, of Schaerbeek, for "Manufacture of lozenges."—Dated 8th August, 1859.

7852. L. B. Olivier, represented by O. Daillencourt, of Brussels, for an imported invention of "A mode of closing bottles."—Dated 8th August, 1859.—(French Patent, 11th March, 1859.)

7853. J. F. Devisscher and C. G. Massiquot, of Molenbeek St. Jean, for "An apparatus for cutting paper and pasteboard."— Dated 9th August, 1859.

7854. J. G. Chavanne, represented by H. Biebuyck, of Brussels, for an imported invention of "Using the extract of horse chestnuts for disincrustating steam-boilers." — Dated 9th August, 1859.—(French Patent, 4th July, 1859.)

7855. H. J. Kind, of Molenbeek St. Jean, for "A system of sounding by percussion."—Dated 9th August, 1859.

7856. T. Richardson, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in the manufacture of manure."—Dated 9th August, 1859. — (English Patent, 21st January, 1859.)

7857. Thibaut and Lanser, represented by J. H. Waltzing, of Arlon, for an imported invention of "A calorifere stove for drying-kilns, manufactories, buildings, apartments, &c."—Dated 9th August, 1859.—(French Patent, 30th June, 1859.)

7858. P. J. Crespin, of Verviers, for "A shuttle box applicable to all kinds of looms."—Dated 10th August, 1859.

7860. N. Saintard, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A railway break." — Dated 10th August, 1859.—(Original Patent, 4th August, 1859.)

7861. J. P. Farrar, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of cast steel, malleable pig-iron, and in refining iron."—Dated 10th August, 1859. — (French Patent, 4th August, 1859.)

7862. C. L. J. Diericky, represented by X. Raclot, of Brussels, for "A balance for weighing planchets of coins."—Dated 10th August, 1859.

7863. D. Nefflier and P. Blandin, represented by J. de Saint-Germain, of Schaerbeek, for an imported invention of "A slide and cylinder for selling postage stamps." — Dated 10th August, 1859.—(French Patent, 12th April, 1859.)

List of Specifications published during the week ending 27th August, 1859.

No.	Price.	Subject-Matter.
137	6s. 7d.	Construction of steam vessels, boilers' gauges, engines, &c.
138	3d.	Apparatus for sowing seed.
140	3d.	Application of gas for signals, lighthouses, and ships at sea.
142	7d.	Locks.
143	7d.	Apparatus for collecting or picking up letters, papers, &c. to be printed.
149	7d.	Treating resinous substances, &c.
150	10d.	Machinery for slotting, mortising, tenoning, and cutting wood, iron, &c
152	3d.	Treatment and manufacture of silk waste.
153	2s. 9d.	Thrashing and dressing machine.
154	4d.	Preparation of food for cattle and horses.
155	10d.	Machinery for manufacturing bricks, tiles, &c.
156	10d.	Reaping machines.
157	3d.	Air pistols and guns.
158	3d.	Carding engines.
159	6d.	Stoppering jars and bottles.
160	4d.	Paper for bank notes, &c.
161	10d.	Core barrels for casting metal pipes or columns.
162	10d.	Apparatus for measuring and sorting silk, &c.
163	3d.	Machinery for forming spiral or purled wire.
164	3d.	Cooking apparatus.
165	3d.	Method of advertising.
166	6d.	Wheel skid or shoe.
167	10d.	Machinery for manufacturing lasts, boot trees, and clogs.
168	10d.	Apparatus for making cigarettes.
169	3d.	Machinery for manufacturing boots and shoes.
170	10d.	Construction of ships and vessels.
171	7d.	Table knives and sharpeners.
172	4d.	Soap.
173	3d.	Ploughing, tilling, and paring land.
174	3d.	Preventing incrustation in steam boilers, &c.
175	3d.	Preventing discoloration in gassing textile fabrics.
176	8d.	Application of springs to sashes, shutters, or doors.
177	6d.	Apparatus for measuring water and other liquids.
178	1s. 8d.	Machinery for spinning yarn, twine, ropes, and cordage.
179	7d.	Clasps or fastenings.
180	3d.	Lawn mowing machines.
181	8d.	Electric telegraphs, &c.
182	3d.	Producing pink shades on cotton fabrics or yarns.
183	3d.	Manure.
184	3d.	Manure.
185	10d.	Boots and shoes.
186	3d.	Machine for washing, wringing, and mangling.
187	3d.	Reticule muff.
188	3d.	Steam boilers.
189	7d.	Taps or stopcocks.
190	9d.	Propellers.
191	3d.	Spinning machines.
192	5d.	Regulating burner for gas.
193	10d.	Manufacture of artificial gums, teeth, &c.

List of Specifications—*continued.*

No.	Price.	Subject-Matter.
194	6*d.*	Warming apparatus for the feet.
195	3*d*	Manure.
196	3*d.*	Manufacture of bonnet fronts, ruches, ribbon trimmings, &c.
197	10*d.*	Chains
198	10*d.*	Machinery for rolling plates, bars, rods, and shafts.
199	3*d.*	Buckles.
200	3*d.*	Covering joinery work with metals or metallic alloys.
201	3*d.*	India rubber thread.
202	6*d.*	Umbrellas and parasols.
203	10*d.*	Distilling oil from coal tar and preserving timber.
204	3*d.*	Machinery for manufacturing corks and bungs.
205	11*d.*	Machinery for cutting files.
206	11*d.*	Atmospheric propulsion, &c.
208	7*d.*	Heating and ventilating buildings, &c.
209	10*d.*	Floating stages for repairing ships or other vessels.
210	4*d.*	Manufacture of cast steel and iron.
211	5*d.*	Manufacture of cast steel.
212	6*d.*	Pumps.
213	1*s.* 1*d.*	Air engines.
214	8*d.*	Manufacture of paper.
215	3*d.*	Bottles for medicines and poisons.
216	2*s.* 8*d*	Agricultural steam engines and implements.
217	1*s.* 1*d.*	Manufacture of iron and of gases for such and other uses.
218	1*s.* 6*d.*	Lanterns for signalling on board ships.
219	3*d.*	Permanent way of railways.
220	3*d.*	Ballasting and extinguishing fires on board ships.
221	7*d.*	Ploughs.
222	3*d.*	Stockings and socks.
223	10*d.*	Machinery for cutting and shaping wood.
224	3*d.*	Treatment of resin and resinous substances.
225	3*d.*	Machinery for the manufacture of bob bins, spools, and cop tubes.
226	3*d.*	Machinery for spinning.
227	10*d.*	Apparatus to facilitate respiration under water, &c.
228	3*d.*	Electric telegraphs.
229	3*d.*	Shirt fronts.
230	6*d.*	Cocks and valves.
231	3*d*	Barometer and thermometer dials.
232	3*d.*	Apparatus for generating and regulating gas, &c.
233	3*d.*	Escapement for time-keepers.
234	6*d.*	Life preserving vests.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Errata.

In Journal of 19th August.

After 1804, for "1804" read "1805."

In Journal of 26th August.

After 1860, for "30th" read "11th."
" " "1833" " "1883."

A Free Library and Reading Room, in connection with the Office of the Commissioners of Patents, is open to the Public daily from 10 till 4 o'clock.

In addition to the Printed Specifications, Indexes, and other publications of the Commissioners, the Library includes a Collection of the leading British and Foreign Scientific Journals, and text-books in the various departments of science and art. A printed Catalogue of the Library is on sale.

Note.—The Commissioners' publications may be consulted daily in the Library of the British Museum; in the Library of the Society of Arts; and in the Free Libraries of the following Towns and Cities:—

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Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
Bradford, Yorkshire (*Borough Accountant's Office, Corporation Buildings, Swain Street*).
Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
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Leicester (*Corporation Library, Town Hall*).
Limerick.
Liverpool (*Free Public Library, Duke Street*).
——— (*Royal Institution*).
London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*)
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
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Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
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Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices, Institutions, &c.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
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Rolls Office, Chancery (Four Courts), Dublin.
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PATENT LAW AMENDMENT ACT, 1852.—All Specifications, Indexes, &c., printed by order of the Commissioners of Patents, are sold at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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NOTICE is hereby given that Provisional Protection has been allowed

1654. To THOMAS WRIGHT, of No. 9, George Yard, Lombard Street, in the city of London, Engineer, for the invention of "Improvements in the permanent way of railways, and in the means of preventing railway accidents thereon."

On his petition, recorded in the Office of the Commissioners on the 12*th day of July*, 1859.

1770. To HENRY JUSTINIAN NEWCOME, of Shenley, near Barnet, in the county of Herts, for the invention of "An apparatus for heating or warming buildings."

On his petition, recorded in the Office of the Commissioners on the 30*th day of July*, 1859.

1782. To EUGENE DE BASSANO, of Brussels, in the kingdom of Belgium, Gentleman, for the invention of "Improvements in the manufacture of artificial fuel, commonly called patent fuel."

On his petition recorded in the Office of the Commissioners, on the 1*st day of August*, 1859.

1802. To BENJAMIN TWEEDY, at present residing at Utrecht, in the kingdom of the Netherlands, Engineer, for the invention of "An improved mode of and apparatus for consuming smoke in locomotive and other engine furnaces, whereby coal can be used instead of coke."

On his petition, recorded in the Office of the Commissioners on the 5*th day of August*, 1859.

1812. To WILLIAM RICHARD DRAKE, of No. 46, Parliament Street, Westminster, in the county of Middlesex, Gentleman, for the invention of "An apparatus for conducting electricity in the sea, and for telegraphing and sounding in deep water."—A communication from abroad by Emile Schneider, of Ecole de droit Saint Petersburgh, in the empire of Russia.

On his petition, recorded in the Office of the Commissioners on the 6*th day of August*, 1859.

1848. To JOSEPH WAITE, of Cheltenham, in the county of Gloucester, Chemist, for an invention of "Improvements in making infusions for pharmaceutical purposes, which improvements are also applicable to other purposes of a similar nature."

On his petition, recorded in the Office of the Commissioners on the 9*th day of August*, 1859.

1856. To WILLIAM WHITE, of No. 34, North Audley Street, Grosvenor Square, for the invention of "A four-wheeled safety sociable carriage."

On his petition, recorded in the Office of the Commissioners on the 11*th day of August*, 1859.

1888. To JOHN HENRY GREAT REX, of Regent's Quadrant, in the county of Middlesex, Gentleman, for the invention of "Improvements in the construction of dwelling-houses or other buildings, for the purpose of facilitating the escape of the inmates in case of fire."

On his petition, recorded in the Office of the Commissioners on the 16*th day of August*, 1859.

1892. To JAMES SIDEBOTTOM, of Waterside, in the county of Derby, Cotton Spinner, for the invention of "Certain improvements in power looms for weaving."

1896. And to SEPTIMUS BEARDMORE, of No. 27, Albion Street, Hyde Park, London, Civil Engineer, for the invention of "Improvements in electric batteries."

On both their petitions, recorded in the Office of the Commissioners on the 17*th day of August*, 1859.

1898. To WESTON GRIMSHAW, of Lower Broughton, near the city of Manchester, Gentleman, and

Samuel Mason, junior, of the city of Manchester, Machinist, for the invention of "Improvements in machinery and apparatus employed in washing, bowking, bleaching, and preparing flax, and other substances."

1900. And to Adolphe Joseph Canu, of Paris, France, Civil Engineer, for the invention of "Improvements in machines for breaking or crushing stones, minerals, or other similar materials."

On both their petitions, recorded in the Office of the Commissioners on the 18th day of August, 1859.

1904. To Peter Salmon, of Glasgow, in the county of Lanark, Merchant, for the invention of "Improvements in locomotives, and in apparatus for warming trains of carriages connected thereto."

1905. To William Thomas Henley, Telegraph Engineer, of St. John Street Road, Clerkenwell, in the county of Middlesex, for the invention of "Improvements in machinery for the manufacture of ropes and cables, and for paying out and picking up submarine telegraph cables."

1906. To Swinton Boult, of Liverpool, in the county of Lancaster, Actuary, for the invention of "Improvements in the means of, or apparatus for retarding railway carriages."

1907. To John Jackson, of Worsley, in the county of Lancaster, Joiner, and Joseph Thorley, of the same place, Overlooker, for the invention of "Improvements in hoists for raising and lowering weights."

1908. To John Fowler, junior, Robert Burton, and David Greig, junior, all of Cornhill, in the city of London, Edward Ellis Allen, of Park Side, Knightsbridge, and William Worby, of Ipswich, for the invention of "Improvements in ploughs, cultivators, or tilling implements, and in machinery for giving motion to the same by steam power."

1909. And to Henry William Harman, of Manchester, in the county of Lancaster, Civil Engineer, for the invention of "Improvements in steam boilers, and in working the same, and in safety valves, and apparatus connected therewith."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of August, 1859.

1911. To Edwin Hardon, of Stockport, in the county of Chester, Manufacturer, for the invention of "Certain improvements in looms for weaving."

1912. To William Finegan, of Belfast, in the county of Antrim, Ireland, Engineer, for the invention of "Improvements in apparatus for lubricating machinery."

1913. To David Grant, of Edinburgh, in the county of Mid-Lothian, North Britain, Gas Meter Manufacturer, for the invention of "Improvements in wet gas meters."

1914. To George William Petter and Thomas Dixon Galpin, both of Belle Sauvage Yard, Ludgate Hill, in the city of London, Printers and Co-partners, for the invention of "Improvements in printing presses."

1915. To William Aristides Vérel, of Macduff, in the county of Banff, Merchant, for the invention of "Improvements in the preparation of bones for manure."

1916. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in apparatus for preparing and spinning fibrous materials."—A communication from abroad by Felix Edmond Lemaire, residing at Paris.

1917. To Joseph Jepson Oddy Taylor, of Mark Lane, in the city of London, Naval Engineer, for the invention of "An improvement in the separation of silex and silicious matter from iron."

1918. To Henry Spratt, of the Royal Marine Barracks, Plymouth, in the county of Devon, Captain Royal Marines, for the invention of "Improvements in revolving pistols and other fire-arms."

1919. To the Honourable William Talbot, of the Army and Navy Club, Pall Mall, in the county of Middlesex, for the invention of "An improved cigar lighter."

1920. To Henry Parkes, of Birmingham, in the county of Warwick, for the invention of "Improvements in the manufacture of cylinders, and tubular or hollow bodies of copper, and alloys of copper or other ductile metals."

1921. To Edward Abbott, of Brunswick Square, in the county of Middlesex, Merchant, for the invention of "Improvements in ordnance and fire-arms."

1922. To Oliver Maggs, of Bourton, in the county of Dorset, for the invention of "Improvements in taps, cocks, or valves."

1923. And to Richard Sutton Harvey, of Lincoln, for the invention of "Improvements in apparatus for dusting vines, hops, and other plants and trees with sulphur, and other powder."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of August, 1859.

1925. To Paolino Francesco Cherpantieri de la Salle, of Nice, Italy, Musical Instrument Maker, for the invention of "A new method of arranging the keys on the fingerboards of pianos, organs, and other similar instruments."

1927. To Thomas Fry, of Liverpool, in the county of Lancaster, Gentleman, for the invention of "The application of enamelled slate to the new purpose of lining, panelling, or otherwise facing the internal or external walls of houses, public buildings, and edifices generally."

1929. To Oliver Maggs, of Bourton, in the county of Dorset, for the invention of "Improvements in apparatus for weaving straw, rushes, and other materials into fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of August, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the Petition of

1942. MARTIN BILLING, of High Holborn, in the county of Middlesex, praying for Letters Patent for the invention of "An improved mode of ornamenting and finishing certain articles of hardware," was deposited and recorded in the Office of the Commissioners on the 26th day of August, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

NOTICE is hereby also given that the petition of

1944. MICHAEL JOHN STARK, of the city of Norwich, Chemist and Merchant, praying for Letters Patent for the invention of "Producing a new chemical or artificial manure from bones, and all such animal and fatty matters," was deposited and recorded in the Office of the Commissioners on the 26th day of August, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

31*st August*, 1859.

441. SAMUEL THOMAS COOPER, of Upper Clapton, Gentleman, for an invention of "Improvements in the use and application of artificial light."—Dated 17th February, 1859.

546. JOHN THOMSON CARTER, of Belfast, in the county of Antrim, Flax Spinner, for an invention of "Improvements in machinery for crushing, bruising, and preparing flax, hemp, and other fibrous materials requiring such treatment."—Dated 2nd March, 1859.

553. JOHN WILLIAM HARKER, of No. 24, Upper Barnsbury Street, Islington, and JOHN KINGSFORD FIELD, of Upper Marsh, Lambeth, for an invention of "Improvements in coating the bottoms of iron and other ships and vessels."—A communication from abroad by John Cooke Harker and Frederick Field, both of Chili.—Dated 2nd March, 1859.

554. ETIENNE ROCHE, of Marseille, town in the French empire, Manufacturer, for an invention of "Improvements in the manufacture of paper suitable for forming cigarettes, and for other purposes, and also improvements in the manufacture of cigars."—Dated 2nd March, 1859.

560. HENRY BROWN, of the firm of Henry Brown and Company, Woollen Manufacturers, of Galashiels, in the county of Selkirk, Scotland, for an invention of "Improvements in machinery for cutting and finishing the surfaces of woollen and other fabrics."—Dated 2nd March, 1859.

566. JAMES DALZIEL DOUGALL, of Glasgow, in the county of Lanark, North Britain, Gun Maker, for an invention of "Improvements in fire arms."—Dated 3rd March, 1859.

573. CHARLES FREDERICK DENNET, of Pall Mall, Gentleman, for an invention of "Improvements in bayonets."—Dated 4th March, 1859.

576. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanic's Magazine and Patent Agent, for an invention of "An improvement in boiler stays."—A communication from Jean Perrier, residing at Nimes, France.—Dated 4th March, 1859.

579. JOHN MACMILLAN DUNLOP, of the city of Manchester, in the county of Lancaster, Engineer, for an invention of "Improvements in machinery or apparatus for cleaning fibrous materials."—Dated 5th March, 1859.

582. FREDERICK WILLIAM PARKER, of Sheffield, in the county of York, Saw Maker, for an invention of "Improvements in sewing machines."—Dated 5th March, 1859.

588. RICHARD LEAKE and MATTHEW SYKES, both of Barnsley, in the county of York, for an invention of "Improvements in furnaces for consuming smoke and generating heat, parts of which improvements are applicable to furnaces generally."—Dated 5th March, 1859.

592. WILLIAM PALMER, of Long Eaton, in the county of Derby, Station Master, for an invention of "An improved railway carriage break, and coupling apparatus connected therewith."—Dated 7th March, 1859.

594. WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for an invention of "Improvements in the treatment of certain ores of copper for the extraction of metals therefrom."—Dated 7th March, 1859.

595. JOHN ASPINALL, of Great Tower Street, in the city of London, Civil Engineer, for an invention of "Improvements in evaporating in vacuo."—Dated 7th March, 1859.

599. JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, for an invention of "The manufacture of gelatine."—Dated 7th March, 1859.

601. ADAM BOOTH the elder, and ADAM BOOTH the younger, of the city of Manchester, in the county of Lancaster, Machine Makers, for the invention of "Improvements in machinery or apparatus for making or manufacturing tags for laces."—Dated 8th March, 1859.

603. GEORGE TWIGG, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "An improved fusee-igniter for the use of smokers."—Dated 8th March, 1859.

610. JOHN ALLIN WILLIAMS, of Baydon, in the county of Wilts, Farmer, for an invention of "Improvements in machinery or apparatus for cultivating land by steam power."—Dated 9th March, 1859.

612. John Robinson Nicholson, of Redditch, in the county of Worcester, Doctor of Medicine, for an invention of "New or improved machinery to be used in the manufacture of needles, a part or parts of which said machinery may also be used for pointing pins and other like articles."—Dated 9th March, 1859.

626. Robert Hellard, Ironmonger, Taunton, Somerset, for an invention of "Improvements in reaping and mowing machines." — Dated 11th March, 1859.

645. Charles Henry Hurst, of Victoria Terrace, Royal Road, Kennington Park, in the county of Surrey, for an invention of "An improved wrench or spanner."—Dated 14th March, 1859.

653. To William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in the apparatus of electric lamps or lights."—A communication from abroad by Victor Louis Marie Serrin, Civil Engineer, of Paris. — Dated 15th March, 1859.

657. William Robertson, of Dundee, in the county of Forfar, North Britain, Engineer, and James Guthrie Orchar, of the same place, Engineer, for an invention of "Improvements in weaving."—Dated 16th March, 1859.

706. William Colborne Cambridge, of Bristol, Agricultural Implement Maker, for an invention of "An improved construction of chain harrow." —Dated 19th March, 1859.

709. William Hudson, of Burnley, in the county of Lancaster, Machinist, and Christopher Catlow, of the same place, Overlooker, for an invention of "Certain improvements in looms for weaving."—Dated 21st March, 1859.

721. William Armand Gilbee, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention of "An improved apparatus for stretching and polishing silk thread."—A communication from abroad by Messieurs Lyonnet and Prénat, of St. Etienne, France.—Dated 22nd March, 1859.

754. Hugh Rigby, of Salford, in the county of Lancaster, Engineer, for an invention of "Improvements in machinery or apparatus for obtaining motive power, applicable to hoists and all other purposes to which motive power can be applied." —Dated 25th March, 1859.

780. William Mossman, of No. 50, Cumming Street, Pentonville, in the parish of Clerkenwell, in the county of Middlesex, Manufacturing Stationer, for an invention of "Improvements in machinery applied to embossing or cutting presses for the better and more expeditious manner of manufacturing ornamental, cut out, and embossed work in paper, leather, parchment, cloth, foil, and other material."—Dated 29th March, 1859.

800. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved governor for marine and other steam engines."—A communication from abroad by H. C. Sergeant, of the United States of America.—Dated 30th March, 1859.

818. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in cricket bats."—A communication from abroad by Michael Doherty, of Boston, in the United States of America.—Dated 1st April, 1859.

830. Arthur Paget, of Loughborough, in the county of Leicester, Manufacturer, for an invention of "Improvements in machinery or apparatus for the manufacture of looped fabrics, and in the manner of constructing the same."—Dated 2nd April, 1859.

935. Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for an invention of "A new cooling apparatus for liquids, especially beer."—A communication from abroad, by Jean Louis Bandelot, of No. 10, Rue Mogador, Paris, in the empire of France.—Dated 14th April, 1859.

993. Job Wotton, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "An improvement or improvements in raising or shaping metals."—Dated 20th April, 1859.

1060. James Holroyd, of Leeds, in the county of York, Clothfinisher, for an invention of "Improvements in machinery used for finishing woollen and other cloths."— Dated 27th April, 1859.

1410. Francis Puls, Chemist, of Roxburgh Terrace, Haverstock Hill, in the county of Middlesex, for an invention of "Improvements in the treatment of hydrocarbons."—Dated 10th June, 1859.

1420. Felix Alexandre Testud de Beauregard, of Paris, in the French empire, Civil Engineer, for an invention of "Certain improvements in generating steam, and in apparatus for obtaining power and in generating steam for other purposes."—Dated 11th June, 1859.

1497. Robert Smith, of Longridge, near Preston, in the county of Lancaster, Manufacturer, for an invention of "Improvements in apparatus applicable to looms for weaving fancy fabrics."—Dated 22nd June, 1859.

1521. Richard Hornsby, junior, of Spittlegate, Iron Works, Grantham, in the county of Lincoln, for an invention of "Improvements in ploughs, and in giving motion to agricultural implements by ploughs and other steam power."—Dated 24th June, 1859.

1561. Levi Lincoln Tower, of the state of Massachusetts, of the United States of America, for an invention of "A new and useful machine for dampening and wetting paper, &c."—A communication from John A. Lynch, a resident of Boston, of the said state of Massachusetts. — Dated 30th June, 1859.

1598. James Hall Nalder, of Alvescott, in the county of Oxford, Farmer, and Thomas Nalder, of Challow Works, in the county of Berks, Engineer and Agricultural Implement Manufacturer, for an invention of "Improvements in winnowing and dressing grain and seeds, and in the machinery or apparatus employed therein."— Dated 5th July, 1859.

Patent on which the Stamp Duty of £50 has been Paid.

(*To 31st August, 1859, inclusive.*)

29th August.

2016. James Blake and Francis Maxwell, both of Kitchen Street, Liverpool, in the county of Lancaster, Soap Manufacturers, for an invention of "Improvements in the manufacture of soap."—A communication.—Dated 30th August, 1856.

2037. James Apperly, of Dudbridge, near Stroud, in the county of Gloucester, Cloth Manufacturer, for an invention of "Certain improvements in the process of preparing cotton, wool, flax, and other fibrous substances for spinning, and in carding and preparing machinery."—Dated 2nd September, 1856.

2046. Edmund Pim Spiller, of Holborn Hill, in the city of London, Manufacturer, for an invention of "Improvements in the construction of chamber lamps."—Dated 3rd September, 1856.

31st August.

2038. Pierre Joseph Guyet, Engineer, of Paris, Town in the French empire, for an invention of "An improved method of stopping or retarding railway carriages and trains, and of warming the interior thereof."—Dated 2nd September, 1856.

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No. 592. TUESDAY, SEPTEMBER 6, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1019. WILLIAM DICKS, of Leicester, Boot Manufacturer, and WILLIAM HOPWELL, also of Leicester, Machinist, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in machinery for making screws, and applying them in fixing the soles of boots and shoes."

As set forth in their petition, recorded in the said office on the 23rd day of April, 1859.

1035. And JAMES HOLMES, of Street, Somerset, Accountant, has given the like notice in respect of the invention of "Improvements in applying eyelet holes to boots and shoes and in binding boots and shoes."

As set forth in his petition, recorded in the said office on the 25th day of April, 1859.

1044. And WILLIAM MACKENZIE, Publisher, of Glasgow, county of Lanark, Scotland, has given the like notice in respect of the invention of "An improved method of printing impressions upon an enlarged or reduced scale, either from engraved plates, electrotypes, blocks, drawings, or other surfaces."

As set forth in his petition, recorded in the said office on the 26th day of April, 1859.

1053. And GEORGE PEARSON, of Bugbrook, near Weedon, in the county of Northampton, Contractor, has given the like notice in respect of the invention of "Improvements in apparatus for cutting and shaping trenails."

As set forth in their respective petitions, all recorded in the said office on the 27th day of April, 1859.

1068. And NICOLAS LIBOTTE, Mechanician, of 33, Boulevard St. Martin, Paris (empire of France), has given the like notice in respect of the invention of "A steam brake for mines, which may also be worked by hand."

1069. And NATHANIEL JOHN HOLMES, Gentleman, of Glasgow, county Lanark, Scotland, has given the like notice in respect of the invention of "Improvements in electric telegraphs and apparatus connected therewith."

1070. And EUGÉNE LARDENOIS, of Brussels, in the kingdom of Belgium, Merchant, has given the like notice in respect of the invention of "Improvements in the manufacture of pulp for paper, pasteboard, and other like articles."—A communication from Bonnet Frederic Brunel, residing in Brussels.

1071. And THOMAS CLARKE, of Hackney, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in sheaves or pulleys for paying out and hauling in ropes, chains, and cables for communicating motion to machinery, and for other useful purposes."

As set forth in their respective petitions, all recorded in the said office on the 28th day of April, 1859.

1077. And JOHN WELLINGTON WELCH, of Manchester, in the county of Lancaster, Warp Sizer, has given the like notice in respect of the invention of "Improvements in sizing or dressing yarns or threads for weaving."

1078. And HENRY BOSSHARD, of Paris, in the empire of France, Engineer, has given the like notice in respect of the invention of "An improved mechanism for obtaining and imparting motive power."

1081. And THOMAS SMITH, of Bredfield, in the county of Suffolk, has given the like notice in respect of the invention of "Improvements in cultivating implements."

As set forth in their respective petitions, all recorded in the said office on the 29th day of April, 1859.

1085. And EDWARD FRANCIS, of Wrexham, in the county of Denbigh, Grocer, has given the like notice in respect of the invention of "Improved

apparatus applicable to the treatment of tea and other useful purposes."
As set forth in his petition, recorded in the said office on the 30th day of April, 1859.

1092. And THOMAS HALL ARROWSMITH, of Bolton, in the county of Lancaster, Cotton Spinner, has given the like notice in respect of the invention of "Improvements in carding engines."

1100. And DANIEL MOORE, of Brooklyn, in the state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in machinery for rubbing or dressing types."
As set forth in their respective petitions, both recorded in the said office on the 2nd day of May, 1859.

1106. And THOMAS WILLIAM MILLER, of Her Majesty's Dockyard, in the parish of Portsea, in the county of Southampton, has given the like notice in respect of the invention of "Improvements in apparatus for and mode of generating steam and economizing fuel."

1115. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement in the manufacture of cast steel."
As set forth in their respective petitions, both recorded in the said office on the 3rd day of May, 1859.

1122. And HENRY TURNER, of Park Street, Mile End, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines, and apparatus connected therewith."

1123. And JOSEPH FELIX ALLENDER, of Brierley Hill, in the county of Stafford, Manager of Works, and DANIEL ROWLEY, of Brierly Hill, aforesaid, Iron Roller, have given the like notice in respect of the invention of "Improvements in shears for cutting boiler plates and sheets, and for other like purposes."
As set forth in their respective petitions, both recorded in the said office on the 5th day of May, 1859.

1150. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in puddling iron and steel."

1151. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in the manufacture of iron."

1154. And WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4, Wellington Street, South, Strand, in the county of Middlesex, Patent Agents, has given the like notice in respect of the invention of "Improvements in the manufacture of steel."—A communication from abroad by Claude Joseph Perinel, of Fourvoiry Department, de l'Isère, in the empire of France, Ironmaster.
As set forth in their respective petitions, all recorded in the said office on the 7th day of May, 1859.

1161. And GEORGE GIBSON BUSSEY, of Dunn's Passage Factory, 485, New Oxford Street, in the county of Middlesex, Manufacturer of Leather Goods, has given the like notice in respect of the invention of "An improved contrivance for carrying cartridges and to facilitate using them."
As set forth in his petition, recorded in the said office on the 9th day of May, 1859.

1182. And HENRY CLARKE, of Wakefield, in the county of York, Corn Factor, has given the like notice in respect of the invention of "Improvements in balancing mill stones to the running as well as the standing state."—A communication from abroad by Thomas Narburgh, of St. Louis, Missouri, North America.

1183. And MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "A mode of protecting the mariner's compass against local attraction."—A communication from abroad by Samuel C. Bishop, of New York, in the United States.
As set forth in their respective petitions, both recorded in the said office on the 11th day of May, 1859.

1197. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Certain improvements in knitting machines."—A communication from abroad by Mr. Jonas Bradley Aiken, of Manchester, in the county of Hillsborough and state of New Hampshire, in the United States of America, Manufacturer.
As set forth in his petition, recorded in the said office on the 13th day of May, 1859.

1251. And WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, has given the like notice in respect of the invention of "Improvements in thrashing and winnowing machines."
As set forth in his petition, recorded in the said office on the 20th day of May, 1859.

1569. And NESSERWANJEE ARDASEER, British Subject of Bombay, East Indies, has given the like notice in respect of the invention of "An improved method of making steam boilers."
As set forth in his petition, recorded in the said office 1st day of July, 1859.

1617. And WILLIAM ROBINSON, of Wembdon, Bridgewater, in the county of Somerset, Brewer, has given the like notice in respect of the invention of "Improvements in cask washing machines."
As set forth in his petition, recorded in the said office on the 7th day of July, 1859.

1645. And HENRY DAVIES, of No. 13, Leicester Buildings, in King Street, Liverpool, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in the manufacture of soap."
As set forth in his petition, recorded in the said office on the 11th day of July, 1859.

1654. And THOMAS WRIGHT, of 9, George Yard, Lombard Street, in the city of London, Engineer, has given the like notice in respect of the invention of "Improvements in the permanent way of

railways, and in the means of preventing railway accidents thereon."
As set forth in his petition, recorded in the said office on the 12th day of July, 1859.

1661. And James Combe, of Belfast, has given the like notice in respect of the invention of "Improvements in machinery for hackling flax and other fibrous substances."
As set forth in his petition, recorded in the said office on the 13th day of July, 1859.

1718. And Joseph Hartley, of Romiley, near Stockport, in the county of Chester, Manager, has given the like notice in respect of the invention of "Improvements in machinery for regulating the velocity of steam and other engines."
As set forth in his petition, recorded in the said office on the 22nd day of July, 1859.

1778. And Elizabeth Merrell, of Little George Street, Minories, in the city of London, Tin and Zinc Plate Worker, has given the like notice in respect of the invention of "Improvements in apparatus for washing and cleansing."
As set forth in her petition, recorded in the said office on the 1st day of August, 1859.

1808. And Robert Thomson Pattison, residing at Daldorch, in the county of Ayr, in Scotland, has given the like notice in respect of the invention of "Improvements in dyeing certain woven fabrics."
As set forth in his petition, recorded in the said office on the 5th day of August, 1859.

1822. And John Cunningham, of Paisley, in the county of Renfrew, North Britain, Card Perforator, has given the like notice in respect of the invention of "Improvements in and connected with Jacquard apparatus for weaving."
As set forth in his petition, recorded in the said office on the 8th day of August, 1859.

1836. And John Cannon, of Billiter Street, in the city of London, Ship Broker, has given the like notice in respect of the invention of "Improvements in washing machines."—A communication from abroad by Abiel Odell, of Bourmanville, in the county of Durham, Canada, Machinist.
As set forth in his petition, recorded in the said office on the 9th day of August, 1859.

1856. And William White, of No. 34, North Audley Street, Grosvenor Square, has given the like notice in respect of the invention of "A four-wheeled safety sociable carriage."

1860. And Warren de la Rue, Manufacturer, and Dr. Hugo Müller, both of 110, Bunhill Row, in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in treating japan and other vegetable wax."
As set forth in their respective petitions, both recorded in the said office on the 11th day of August, 1859.

1909. And Henry William Harman, of Manchester, in the county of Lancaster, Civil Engineer, has given the like notice in respect of the invention of "Improvements in steam boilers, and in working the same, and in safety valves, and apparatus connected therewith."
As set forth in his petition, recorded in the said office on the 19th day of August, 1859.

1944. And Michael John Stark, of the city of Norwich, Chemist and Merchant, has given the like notice in respect of the invention of "Producing a new chemical or artificial manure from bones, and all such animal and fatty matters."
As set forth in his petition, recorded in the said office on the 26th day of August, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 3rd September*, 1859, *inclusive*).

1st September.

2068. William Smith Mitchell, of Cornhill, in the city of London, and Charles Martin Ernest Gärtner, of Lower Ashby Street, Northampton Square, in the county of Middlesex, Watchmakers, for an invention of "Improvements in the construction of watches."—Dated 5th September, 1856.

2076. Sidney Wesley Park and Edgar Stimpson Ells, both of the city of Troy, in the State of New York, United States of America, for an invention of "Improvements in machinery for knitting tubular ribbed fabrics."—Dated 6th September, 1856.

2nd September.

2054. Evan Leigh, of the city of Manchester, in the county of Lancaster, Mechanical Engineer, and George Peter Leigh, of the same place, Manager, for an invention of "Improvements in parts of machinery or apparatus used in preparing and spinning cotton and other fibrous substances."—Dated 4th September, 1856.

2070. Robert Wilson, of Patricroft, in the county of Lancaster, Engineer, for an invention of "Improvements in valves and in apparatus connected therewith."—Dated 5th September, 1856.

3rd September.

2062. Benjamin O'Neale Stratford, Earl of Aldborough, of Stratford Lodge, in the county of Wicklow, in Ireland, for an invention of "Improvements in aërial navigation, and in the apparatus connected therewith, parts of which are applicable to locomotion generally."—Dated 4th September, 1856.

2064. John Benjamin Dancer, of the city of Manchester, in the county palatine of Lancaster, Optician, for an invention of "Improvements in photographic cameras, and in the apparatus connected therewith."—Dated 5th September, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 16th August, 1859, and each bearing that date.

No. 25,083. GILBERT L. BAILEY, of Portland, Me., for an "Improved machine for punching holes in leather."

"I claim, 1st, the arrangement and combination of the bed piece L, lever A, and hollow cutter C, provided with a standard D, connecting rod E, and treadle H, as and for the purpose set forth and described. 2nd, I do not claim an adjustable cutter bed as such; but I claim the arrangement as set forth, of the circular adjustable cutter bed D, in such a relative position to the cutter C, as to accomplish the object herein specified."

No. 25,084. WM. T. BARNES, of Buffalo, N. Y., for an "Improvement in sewing machines."

"I claim, 1st, working two needles vertically and alternately in the same hole in the bed plate, substantially in the manner and for the purpose herein set forth. 2nd, I claim the arrangement of springs 5 and 7, wedge 10, finger 6, spring 18, and stop 20, substantially in the manner herein specified. 3rd, I claim the arrangement of lever 13, slide 11, and lever 12, when said lever 12 is provided with points, is pivoted to slide 11, and made to operate substantially in the manner herein described. 4th, I claim the arrangement of the ratchet wheel *a*, serrated bar *c*, and ratchet *c*, with the spool, rod, and levers C, C^1, substantially as set forth."

No. 25,085. MELLEN BATTEL, of Albany, N. Y., for an "Improvement in steam generators."

"What I claim, is, the combination with the tubes C, C, extending downward through the tube sheet, or crown of the fire box, or downward into a flue, and upward through the water above the tube sheet, of the inner tubes D, D, applied in the manner herein described, for the purpose set forth."

No. 25,086. THEOPHILUS D. BERRY, of Lowell, Mass., for an "Improved clothes rack."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction of my clothes rack with divided center, or of two sections, each to consist of center piece A, slats F, braces H, and circumferential pieces E, united to each other, as described, when these two sections are combined with each other by plates C, so hinged as to allow the rack to be folded and opened, both vertically and circumferentially, in the manner described, to obtain by this divided center, a rack suitable for use, when folded closely, and circumferentially, for the purposes set forth."

No. 25,087. EZEKIEL BOOTH, of Troy, N. Y., for an "Improvement in sewing machines."

"I claim, first, the combination of an eye-pointed vibrating lever, and a looper, operating together, substantially in the manner and for the purpose set forth. Second, I claim the vibrating of the eye-pointed lever by a positive motion given to it by the rollers *t*, *t*, entirely, and as contradistinguished for the use of a spring of any kind, by which means, I ensure its reliable action, under its rapid motions, as set forth."

No. 25,088. MARO BRADLEY, of Dundee, Ill., for an "Improvement in horse rakes."

"I claim, in the construction of horse rakes, the use of the recessed metal bar *b*, spurs E, F, rods or shoes D, elastic bar I, lever J, slide rod K, and projection G, the whole being constructed and employed together in the manner and for the purpose substantially as herein described."

No. 25,089. JOHN DAVID BROWN, of Cincinnati, O., for an "Improved cabinet furniture."

"What I claim as my invention, and desire to secure by Letters Patent, is, the arrangement of the folding ends C, C^1, as set forth, and the flaps or leaves E, E^1, hinged on the inside, for the purpose herein substantially described."

No. 25,090. HENRY BURT, of Newark, N. J., for an "Improved door fastener."

"I claim a permanent door bolt, made with the fastening plate *b*, bolt case *a*, and bolt *c*, secured and operated as herein described."

No. 25,091. JOSEPH CALEF, of Buffalo, N. Y., for an "Improvement in the running gear of carriages."

"What I claim as my invention, and desire to secure by Letters Patent, is, the journal box E, constructed substantially as described, and combined with the friction rollers B (or slides W), for the purposes set forth. The combination of the axle A, journal box E, friction rollers (B, and equivalents,) and hub D, for the purposes set forth. The arrangement of the jointed braces L, M, N, in combination with the running gear of carriages, for the purposes set forth."

No. 25,092. WM. S. CARR, of New York, N. Y., for an "Improved watercloset."

"What I claim as my invention, and desire to secure by Letters Patent, is, regulating the action of the cock, or valve, in watercloset by the joint operation of the lever, and weight of water in the pan, substantially as specified, whereby the cock, or valve, is kept open until the weight of water in the pan, regulates the closing thereof. I also claim the construction of the valve *c*, with the balancing diaphragm 12, valve 10, and spring 13, as set forth."

No. 25,093. H. CHANCEY, of Perry, Geo., for an "Improvement in machines for dressing stone."

"What I claim, is, the arrangement of the pick, or hammer shafts N, N, adjustable shaft R, and adjustable traverse bar P, when combined or used in connection with the reciprocating carriage C, and laterally moving or adjustable bed U, in the manner and for the purpose herein set forth."

No. 25,094. ABRAM H. CLEAR, of Providence, R. I., for an "Improvement in pipe connections for steam boilers."

"I claim making the connections between the injection pipe or other similarly submerged pipe of a steam vessel, or any other vessel, with the side or exterior of the vessel, by means of a valve box situated within or between the inside and outside planking of the vessel fitted with a valve, capable of being operated by a screw, or its equivalent, by a person on or above the deck of the vessel, substantially as herein described."

No. 25,095. JOSEPH H. CLIFTON, of New Castle, Pa., for an "Improvement in manufacture of machine belting."

"What I claim, is, the process of manufacturing belting for machinery from fibrous materials, substantially as herein described."

No. 25,096. JOSEPH H. CLIFTON, of New Castle, Pa., for an "Improvement in belting for machinery."

"I claim, as a new article of manufacture, belting made of fibrous material, by the process herein set forth."

No. 25,097. EDWARD K. COLLINS, of Chili, N. Y., for an "Improvement in clover bolts."

"Claim.—The combination and arrangement of two bolts in clover machines, when said bolts have a counter and upward movement produced in the manner and for the purposes specified."

No. 25,098. THOS. S. COX, of La Fayette, Ind., for an "Improvement in the mole of drain ploughs."

"What I claim, is, the peculiar shape of the mole 'C,' by the forward movement of the mole 'C,' the earth is

carried from the bottom of the ditch, by means of the terra ducts 'B' from the point of the mole 'D' to the rear of the shank 'A,' and pressed more densely by the increased earth coming in contact with the convex end of the mole 'C' in rear of the shank 'A,' in such a manner as to make a better arch, and more durable than any heretofore made, leaving the bottom of the ditch almost entirely uncompressed, hence I do not claim anything, except the invention of the terra ducts, 'B,' ending in the convex on the top of the mole 'C.'"

No. 25,099. JOHN H. CRANE, of Charlestown, Mass., for an "Improved carpet sweeper."

"What I claim, is, the arrangement of the belt, rotating guides, and driven pulley, operating in combination with carpet sweepers, essentially as set forth."

No. 25,100. THOS. B. DE FOREST, of New York, N. Y., for an "Improvement in india rubber springs for railroad cars, &c."

"I claim, composing a spring of a series of blocks, or segments of circle of vulcanized india rubber, placed and held between two parallel plates, or equivalents, substantially as described; but this, I only claim, when the series of blocks are so arranged and held between the two parallel plates, that their contiguous faces shall not come in contact under light loads, but shall come into contact and give mutual support, as the load increases, substantially as and for the purpose specified."

No. 25,101. THOS. DOUGHERTY, of Macon, Geo., for an "Improvement in switches for railroads."

"What I claim, is, the combination and arrangement of the flat bars A, A, and the stationary bed plates C, C, provided with the guide rails D, D, in connection with the rails G, when constructed and operated, substantially as and for the purpose above set forth."

No. 25,102. EUGENE DUCHAMP, of St. Martinsville, La., for an "Improvement in self-releasing whiffle trees.

"What I claim, is, operating the two rods simultaneously by means of the slotted guards D, D, in combination with the boxes G, G, and lips *c*, *c*, in the manner and for the purposes herein specified."

No. 25,103. EUGENE DUCHAMP, of St. Martinsville, La., for an "Improvement attaching thills to vehicles."

"Claim:—The combination of the swivel coupling boxes E, having an elliptical slot through their ends, thill-irons, having fluked portions G, and hinged gates I, or their equivalents, substantially as herein shown and for the purpose specified."

No. 25,104. JACOB EDSOM, of Boston, Mass., for an "Improved carpet sweeper."

"I claim producing the motive power of the machine by means of a belt of rubber, or gutta percha, interposed and running between the pulley or roller *n*, and the surface to be swept or passed over, as set forth. I also claim, arranging the guiding wheel *i* upon the stationary hollow shaft, or bushing *k*, through which the axle of the brush-shaft passes as described, and for the purposes specified."

No. 25,105. ASAHEL ELMER, of Shabbona Grove, Ill., assignor to Nathan Elmer, Ruben M. Richard, of same place, for an "Improvement in mole plough."

"I claim, first, in combination with the adjustable block B on the plough beam, the scoring or leveling plough D in advance of it, substantially as and for the purpose described. 2d, I also claim, in combination with the plough beam and coulter, the swinging weighted crane, or lever, for preventing the careening of the plough, or for recovering its proper position after it has careened, substantially as described. 3rd, I also claim the combination of a forked coulter for cutting a wedge shaped or tapering slice over the coulter gash, with a pressing or driving device for forcing down said slice, and thus packing the coulter gash, as described. 4th, I also claim a mole or former, made of a series of conical-shaped sections, which increase in size, as they recede from the coulter, and which are so linked together as that they may move in a horizontal plane, but be comparatively rigid in a vertical plane, substantially as herein described and represented, and for the purpose set forth. 5th, I claim, in combination with the mole L, the scorer or shoe *m*, on its rear section or end, said scorer forming a groove or channel in the bottom of the finished drain, for admitting the water into it, the sides of the drain being so closely packed as to prevent the water from entering there, said scorer being constructed and arranged, as herein represented."

No. 25,106. D. R. ERDMANN, of Philadelphia, Pa., for an "Improved white lead apparatus."

"I claim a rotary cylinder C, arranged with double wire nettings *d*, in combination with a vat A, provided with a tube F, substantially in the manner and for the purpose herein specified."

No. 25,107. ALEXR. FOROT, of Paris, France, for an "Improvement in fabrics."

"I claim the manufacture of a new kind of fabric without weaving, composed simply of threads glued upon a base of paper or any suitable kind of material, such fabric being left plain or ornamental by embossing, or any other process, substantially as herein described."

No. 25,108. BENJN. FULGHUM, of Richmond, Ind., for an "Improved sawing machine."

"I claim, 1st, the combination and arrangement of the two frames B, C, placed one within the other, and arranged substantially as herein described, so as to admit of the saws being adjusted vertically, and also moved horizontally forward and back, for the purpose set forth. 2nd, the arrangement of the shafts g^1 and F, with their respective gearing f^1, *p*, and the pulley J, in connection with the two reciprocating frames B, C, whereby the saws are rotated and at the same time have a reciprocating motion communicated to them. 3rd, in combination with the two circular saws d^1, *w*, the inclined ways e^1, e^1, of the log carriage I, for the purpose set forth."

No. 25,109. H. P. GENGEMBRE, of Alleghany, Pa., for an "Improvement in manufacture of coal oils."

"What I claim as my invention, and desire to secure by Letters Patent, is, the continual progressive and gradual destructive distillation of coal or other bituminferous substance, for the purpose of obtaining therefrom the different products of distillation by means and with the use of the apparatus herein described, or their equivalent."

No. 25,110. CHAS. GOODYEAR, of New Haven, Conn., for an "Improvement in manufacture of porous rubber cloth."

"I claim as my invention, and desire to secure by Letters Patent, is, a new porous manufacture, pervious to air and water repellant, composed of a woven or equivalent fabric, and a thin porous coating of india-rubber or allied gum, substantially as described."

No. 25,111. CHAS. GOODYEAR, of New Haven, Conn., for an "Improvement in india-rubber fabrics."

"I claim as my said invention, and desire to secure by Letters Patent, is, the porous and water repellant manufacture, composed of a bat or fleece of cotton or other fibre, and india-rubber or allied gum, united and rendered porous, substantially as specified."

No. 25,112. JOSEPH GRUNWALD, of New York, N.Y., for an "Improvement in clasps for skeleton skirts."

"What I claim as my invention, and desire to secure by Letters Patent, is, the combination of the hoops or springs, with the tape by means of clasps, constructed substantially as described and represented by Figs. III, IV, and V, and for the purpose specified."

No. 25,113. JAMES HAMILTON, of New York, N.Y., for an "Improved cross-cut sawing machine."

"What I claim as my invention, and desire to secure by Letters Patent, is, the manner herein described of arranging the shaft *d* and its gear wheel *f*, and bevel gear *r*, in connection with the bevel gear *g*, and gear *s*, on the shaft 1, so that said shaft *d* can be changed to stand horizontally and give motion to the saw, whether the said saw and the gearing thereof be in a horizontal or vertical position, substantially as specified, thereby adapting one machine to be moved by hand, in felling trees, or sawing up logs, as set forth. I also claim, in combination with the aforesaid machine for sawing logs, the detachable frame *v*, buck *w*, and variable lever *x*, for holding smaller logs, while being sawed for fire wood, substantially as specified."

No. 25,114. A. HAMMOND, of Jacksonville, Ill., for an "Improvement in mole ploughs."

"What I claim as my invention, and desire to secure by Letters Patent, is, the shoe E, provided with a knife N, and projection L, when the same are arranged, and operate in the manner and for the purposes herein set forth."

No. 25,115. B. S. Healy, of Cohocton, N. Y., for an "Improvement in self-acting wagon brakes."

"Having thus described my improvements in wagon brakes, what I claim therein as new, and desire to secure by Letters Patent, is, the combination of a forked pole, arranged substantially as described, with the hounds, whereby the pole is free to slide in its forks, and operate the brakes, without moving the forks backward in the hounds. In combination with brakes pivoted to a fixed bar as described, I claim the brake blocks, arranged and connected with the brakes as set forth, whereby the friction of the wheels on the blocks, draws the brakes toward and causes them to press with greater force against the wheels."

No. 25,116. Wm. Henderson, of Baltimore, Md., for an "Improvement in car seats."

"What I claim as of my invention, and desire to secure by Letters Patent, is, 1st, the construction of a railway reclining chair or couch securely attached to the floor of the car, with the whole chair reversible, so as to face either end of the car substantially as described. 2nd, the mode of varying the height of the back of the chair, by making it in two pieces, and suspending the lower portion, substantially as described. 3rd, in combination with a chair reversible as aforesaid, I claim the double acting foot board, single reversing leg rest, and means for extending it by the action of the arms of the chair, substantially as herein described."

No. 25,117. Robt. Heneage, of Buffalo, N. Y., for "Improved hose coupling."

"I claim the arrangement of the screw sections B and C, and packing K, upon the cone extension A, as herein described."

No. 25,118. H. C. Hunt, of Ottumwa, Iowa, for an "Improved vise."

"What I claim as my invention, and desire to secure by Letters Patent is, in constructing a vise in such a manner that it will self-retain itself upon a table or bench, substantially in the manner herein set forth."

No. 25,119. John W. Huntley, of Lane's Creek, N. C., for an "Improvement in cotton seed planters."

"What I claim as new, and desire to secure by Letters Patent is, the vertical rotating toothed shaft H, in connection with the follower or gatherer J, placed within the hopper G, and arranged for joint operation substantially as and for the purpose set forth."

No. 25,120. Levi S. Ives, of Brooklyn, N. Y., for an "Improvement in mill stone bushes."

"I do claim, 1st, the placing, substantially as set forth, of a cylinder D, which contains the spindle collar B, blocks F, and the adjusting wedges G, within a cylinder M, secured within the centre of the bed stone, the cylinder D being allowed a vertical movement or play within the cylinder M, to admit of the vertical adjustment of the spindle, and consequently the runner or upper millstone, with but little friction, and keeping all the parts in position, so as to prevent their derangement. 2nd, the arrangement of the plates J, K, L, with the washer I and ring H, or their equivalent, in connection with the projections *d* on the inner side of the cylinder D, substantially as described, to prevent the casual turning of the blocks with the spindle. 3rd, the plate N, provided with the flanch O and the dome shaped cap P, provided with the flanch Q, in connection with the cap T and plate *g*: the above parts being attached, respectively to the cylinder D, spindle collar B, and driver R, to form an air and a dust chamber, substantially as and for the purposes set forth."

No. 25,121. H. R. Jerome, of Monroeville, O., for an "Improvement in mole ploughs."

"I claim, 1st, the arrangement of a beam, carrying a mole plough, with the front and rear standards of the front and rear propelling wheels, and with the adjusting device, substantially as and for the purposes set forth. 2nd, providing the coulter with a series of notches, and arranging the draught chain in one or other of said notches, and thus having the draught applied directly to the coulter, substantially as and for the purposes set forth. 3rd, the combination of a coulter which is elliptical in form in its transverse section, with a mould, which is conical at its front and rear ends, substantially as and for the purposes set forth."

No. 25,122. Wm. B. Johns, of the U. S. Army, for an "Improvement in apparatus for lighting gas burners."

"I claim giving the wrench staff the jointed sections E and F, so that a match inserted in the extreme section may illuminate the burner key while the gas is being turned on, and also serve as a torch to ignite the gas."

No. 25,123. Thos. J. Jolly, of Olean, Ind., for an "Improved washing machine."

"I claim as new and of my invention herein, and desire to secure by Letters Patent, the described arrangement and combination of the treadle I, sliding table C, and rotary rubber D, the whole being constructed and operating in the manner and for the purpose set forth."

No. 25,124. Morris L. Keen, of Roger's Ford, Pa., for "Improved machinery for manufacturing artificial fuel."

"Having thus fully described the nature of my invention, what I claim therein as new, and desire to secure by Letters Patent is,—1. The combination and arrangement of the mills, conveyors, mixing and heating cylinders, moulding and conveying apparatus, substantially in the manner and for the purpose herein described. 2. I also claim the combined use of the moulding apparatus, and of the tank or reservoir of water, for the purpose of receiving and moulding the heated and plastic material in said tank of water, for cooling the machinery and fuel, and for preventing the material from adhering to the machine, substantially as herein described. 3. I also claim the combination of the endless apron with the moulding apparatus, operating in a tank or reservoir of water, substantially in the manner and for the purposes described."

No. 25,125. Hazard Knowles, of New York, N. Y., for an "Improvement in clasps for fastening bands on cotton bales, &c."

"What I claim as my invention, and desire to secure by Letters Patent, is, the method of securing straps by means of a roller, substantially such as described, in combination with the wedge-formed mortise of the sleeve, which receives the strap, substantially as described."

No. 25,126. S. S. Langdon, of Cleveland, O., for an "Improved churn."

"Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is, the above described construction and arrangement of rotary churns, when the same are provided with the dash frame K, and chambers E, and the whole constructed, arranged, and operated substantially as set forth."

No. 25,127. Joel Lee, of Galesburgh, Ill., for an "Improvement in mole ploughs."

"What I claim, is, the two swords fitting closely together, the front one attached to the mole near the forward point, the rear sword pivoted near the rear point of the mould. Secondly, the lever, in combination with the swords, for operating or adjusting the front sword and the mould."

No. 25,128. John Magee, of Lawrence, Mass., for an "Improvement in stoves."

"I claim the arrangement of the pot grate A, the hot-air chamber F, the ring grate B, the register G, and the ash chamber H together, and with direct descending and base flues, substantially as specified."

No. 25,129. Joseph P. Markham, of Penfield, Mich., for an "Improved tuyere."

"I claim, first, the use of the indented valve K, in combination with the outlet passages H, constructed and arranged substantially as herein described, in such manner that by moving said valve back and forth underneath the outlet, it will admit the wind to or shut it off from said outlet, equally and gradually, on each side of the central tube I. Second, I claim the mode of making the loose nozzle J independent of the masonry for support by the use of the tube I, and its socket, in combination with the ribs G, G, G, G, and corresponding rebates, substantially as set forth."

No. 25,130. Rufus Maxwell, of Tucker County, Va., for an "Improved towel rack."

"I claim the construction of racks for endless towels with a slot *a*, *b*, and opening *c*, substantially as and for the purpose above described."

No. 25,131. Chas. H. McAleer, of Chambersburgh, Pa., for an "Improvement in binding apparatus for harvesters."

"I claim the apparatus or elevator for raising and compressing the gavel, constructed and operating in the manner substantially as described."

No. 25,132. Wm. Howard Mitchell, of San Francisco, Cal., for an "Improvement in rotary movement."

"I claim two or more reversed self-detaching pawls or catches working on opposite sides of the periphery of the ratchet wheel, by being attached to arms working in parallel lines and in the same direction, constructed and operating substantially as and for the purpose specified. I also claim the combination of the ratchet wheel R with the pawls or catches P and P^1, and flanges E, and the cross beam B, with parallel arms G, substantially for the uses and purposes set forth. I also claim the combination of the ratchet wheel with the flanged casing or flanges."

No. 25,133. Geo. I. Montjoy, and Joel B. Sawyer, of Houston, Texas, for an "Improved rotary steam engine."

"What we claim, is, the arrangement of the passages in the double elbow piece E, E^1, and the reversing cock or valve F, in combination with the passages in the stationary hollow shaft D, and its abutment H, the whole applied in connection with the cylinder, and its sliding pistons to operate substantially as herein described."

No. 25,134. Willis G. Murphy, of Seguin, Texas, for an "Improvement in seed planters."

"I claim, the arrangement of the beam (A), hopper (C), wheels (D), (J), H, and E, seeding wheel R and B, helve 14, plough (T), coverers (Q), and conductor V, as described, and for the purposes set forth."

No. 25,135. Rudolph A. Nathurst, and John L. Stewart, of Nashville, Tenn., for an "Improved safety rein for bridles."

"We claim, the connection of the choke strap with the common or ordinary driving reins, so as to act and serve for both purposes of driving and safety rein, substantially as described, and this we claim, whether it be temporary or permanently affixed to the bridle or halter whether a bit is used or not."

No. 25,136. Caesar Neumann, of New York, N.Y., for an "Improved skeleton skirt."

"I claim the combination of the jointed or hinged hoop supporters and a series of horizontal hoops, when arranged and operated in the manner described and for the purpose set forth."

No. 25,137. J. J. Parker, of Marietta, O., for an "Improvement in steam slide valve."

"I claim, placing the valves loosely on the hollow arms of the side pipe, and contracting the supply openings from the valves, substantially in the manner described for the purpose of employing the pressure of the steam, to keep the valves in contact with their seats as specified."

No. 25,138. John C. Pedrick, of Washington, D.C., for an "Improved ball furniture casters."

"I claim as my invention, and desire to secure by Letters Patent, is, inserting into a metal cup containing the ball of a caster, a separate anti-friction bearing *f*, against which the ball revolves, thereby lessening the friction of the ball in the metal cup or socket as described."

No. 25,139. Thos. E. Roberts, of Allamance, N.Y., for an "Improvement in trucks for railroad cars, &c."

"I claim, the construction and arrangement of the concave chilled plates B, and convex chilled plate C, with each other in the manner described, and their combinations with the self-oiling friction rollers G, O, H, for the purposes fully set forth."

No. 25,140. James H. Roome, of New York, N.Y., for an "Improvement in shears."

"What I claim, is, combining one limb C, D, of a pair of shears or other similarly operating hand cutting instrument, with its handle E, forming part of a separate lever E, G, and combining the said limb and handle with the other limb of the shears, by means of an arm *f*, attached to the said lever E, G, and operating on the rear portion D, of the first-mentioned limb, a link F connecting the said limb with the said lever, and a movable fulcrum connection *g*, *h*, between the said lever and the other limb, the whole operating substantially as described to cause the power of the said lever to increase as the shears close."

No. 25,141. Wm. N. Rowe, of Sharpsburgh, Md., for an "Improvement in carriage and wagon jacks."

"I claim, the adjustable sliding catch plate B, operating as described in combination with the grease box F and jack, as herein set forth and described."

No. 25,142. Jacob Rupertus, of Philadelphia, Pa., for an "Improvement in percussion pellet for fire-arms."

"I claim the employment for enclosing the detonating compound of a metal capsule, of spherical form, substantially as herein described."

No. 25,143. John Scheeper, of New York, N. Y., for an "Improvement in stoves."

"I claim the arrangement and combination of the fire chamber A, ovens B, C, D, and flues *k*, *l*, *l*, *q*, *q*, *n*, *n*, substantially as and for the purpose herein shown and described."

No. 25,144. Henry W. Shipley and Zohar Blair, of Mount Vernon, O., for an "Improvement in portable iron husk grist mills."

"What we claim as our improvement, and desire to secure by Letters Patent, is, the husk A and cup A^1, composed of lower and upper sections, the same being turned and fitted together as described, and supported upon a frame C, for the purpose of making the whole portable and complete in itself. We claim cementing the stone to the interior of the cup A, which also forms the upper husk, as specified. We claim the cup M, constructed and fitted substantially as described, and cementing the stone thereto, so that both will revolve together. We claim the bridge trees D and G, in combination with the husk A, cup A^1, and frame C, when arranged and operating substantially as set forth."

No. 25,145. Henry Soggs, of Columbus, Pa., for an "Improved butter worker."

"I claim, and wish to secure by Letters Patent the tray (*d*) with convex bottom and ends set on an inclined plane of rollers, working in combination with the cylinder (*a*), and ribs (*b*), for the purpose of working the milk and surpurfluous matter from the butter at the same time, leaving channels in said butter, thro' which the milk, &c. may escape."

No. 25,146. David Stoddart, of San Francisco, Cal., for an "Improvement in slide valves of steam engines."

"I claim, 1st, the employment of the elastic plate D, in combination with a cavity (*b*) and a balance frame C, substantially as and for the purpose herein shown and described. 2nd, the combination of an adjusting spring (*m*), and screw *n*, with the elastic plate D, substantially as and for the purpose herein shown and described."

No. 25,147. Wm. Mont Storm, of New York, N. Y., for an "Improved steam generator."

"Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is, the plow or method of conveying water from a closed tank or reservoir to the heating surfaces of a steam generator, by capillary attraction, for the objects described. Second, I claim so constructing and locating the said supply tank, that the influence of the heat upon the water contained therein for 'feed,' while elevating its temperature, shall, in no case, bring it up to the steam generating or boiling point under the given pressure."

No. 25,148. Francis M. Strong and Thos. Ross, of Brandon, Vt., for an "Improvement in weighing scales."

"We claim as new, and desire to secure by Letters Patent, the arrangement of the bars C, D, of the larger platform B, as shown, to wit: one lever crossing the other at about right angles, so that the knife-edged bearings *b* of the foot pieces *a* of one lever will be at right angles to those of the other, and the lateral movement of the foot pieces on the bearings prevented. We further claim attaching the arms E, E, of the levers C, D, either separately or when connected direct to the beam G, and having the bar I of the scoop or smaller platform H rest on knife-edged bearings *k*, *k*, on the beam, substantially as and for the purpose set forth."

No. 25,149. B. F. Sturtevant, of Boston, Mass., for an "Improved blank for shoe pegging machines."

"What I claim as my invention, and desire to secure by Letters Patent as a new article of manufacture, is, a blank or strip of shoe pegs, cut around the log, substantially as described."

No. 25,150. N. G. Thom, of Cincinnati, O., for an "Improved machine for nicking and trimming heads of screws."

"What I claim as my invention, and desire to secure by Letters Patent, is, first, a revolving or rotating head, which revolves around a series of spindles, or blank-holders, with an intermittent or interrupted motion, carrying upon it the necessary apparatus and tools for shaving, nicking, and trimming, or otherwise finishing the heads of screw blanks. 2nd, in combination with the spindles or blank holders, I claim the annular cam *m*, having internal and external inclined surfaces, for the purpose of raising the spindle in the nicking process, and operating the grippers by acting upon the one rod *b*. 3rd, in combination with the spindles or blank holders, I claim the rod *d*, and spring *e*, or its equivalent, when such spring or equivalent is made to act upon the rod at required intervals to discharge the blank by being attached to some rotating or reciprocating portion of the machine. 4th, I claim the lever *r*, and the spring *n*, and catch *l*, or other mechanical equivalent, which acts upon the machine for the purpose of arresting one part while it releases another, substantially as described, and for the purpose set forth. 5th, I claim the arrangement of the spindles and driving shaft in such a manner, that while the spindles containing the blanks to be shaved and trimmed, are acted upon by the driving belt, the spindle containing the blank to be nicked is not acted upon, and the necessary tension is given the belt at all points in the revolution of the head, without the use of a binder, substantially as described. 6th, in combination with the wormwheel *w*, or its equivalent, for giving motion to the cams, I claim the cam Y, and tool cam *x*, when acted upon in such manner that the said cams remain stationary while the head revolves, or nearly so, and the cams revolve while the head is stationary, substantially for the purposes set forth. 7th, I claim finishing the heads of screw blanks, by an apparatus by which the necessary tools for finishing the head are revolved round the spindles or blank holders, whether such blank holders are stationary or otherwise."

No. 25,151. Andrew Turney, jr., of Fairfield, Conn., for an "Improvement in laying submarine telegraph cables."

"What I claim as my invention, and desire to secure by Letters Patent, is, the construction and use of an apparatus, consisting of two hollow cylinders (A and B), with longitudinal joints or hinges, and two disks or flanges (E and F) set obliquely to the cylinders, and a guide or regulating disk (G) to be attached to a telegraph cable, while the cable is being submerged to check the rapidity of the sinking, and to afford a constant strain on it in the direction of the vessel which is paying out the cable, to avoid kinks or festoons, when the whole is constructed, and made to produce the result, substantially as herein described."

No. 25,152. John Wagoner and Abram Severson, jr., of Guilderland Centre, N.Y., for an "Improved washing machine."

"What we claim, is, mounting the revolving platform K, and the pulleys and gearing P, Q, R, or their equivalents on the hinged platform M, and so arranging the whole, that when M is turned up, the driving belt O is slackened, and the whole lies within or by the side of the main frame, and when M is turned down the gravity of the tub, or equivalent vessel tightens O, and causes the several parts to operate without any labor in adjusting."

No. 25,153. Saml. Wethered, of Baltimore, Md., for an "Improvement in carding engines."

"I claim, 1st, a card clothed main cylinder for carding engines, which performs a lateral vibrating movement simultaneously with its revolution, substantially as and for the purposes set forth. 2nd, a card clothed 'fancy,' or upper cylinder, which is capable of performing a lateral vibration as it revolves, in combination with a laterally vibrating card clothed main cylinder, substantially as and for the purposes set forth."

No. 25,154. Julius Wehle, of New York, N.Y., for an "Improvement in hat measures."

"I claim, 1, the divided handle, in combination with the elastic oval strip A, for the purpose of contracting the said oval strip, substantially as described. 2, the scale D, secured to one of the handles, and passing through an incision of the other handle, in combination with the screw N, substantially as described, for the purpose set forth."

No. 25,155. F. B. Williams, of Freeport, Ill., for an "Improvement in horse power machine."

"What I claim, is, the arrangement and combination of the circular standard B, toothed rim B^1, ring C, pinions D, wheels E, pinion *e*, toothed ring G, and pinion H, to operate substantially as and for the purpose specified."

No. 25,156. Wm. S. Williams, of New York, N.Y., for a "Machine for bundling kindling wood."

"I claim, first, the feeding clumps *f*, and slides d^1, arranged and actuated in, substantially the manner and for the purposes set forth. Second, I claim the combination of the separating and dividing knife *h*, with the concave wood carrier h^2, to convey the wood to the bundling apparatus as specified. Third, I claim the sliding supports *g* 1, arranged and acting as set forth, to sustain the kindling wood, as fed into the machine, and keep it in place, as described and shown. Fourth, I claim the curved gatherers i^1, fitted and acting as set forth, to deliver the bundle of wood, and gather the next loose wood into a bundle, as specified. Fifth, I claim the conical gatherers *l* and m^1, to concentrate and compress the bundle of wood, as described and shown. Sixth, I claim the stationary plate *k*, and segments 15, in combination with the conical gatherer *l*, to sustain the wood, while acted upon, as specified. Seventh, I claim the plunger or press block *m*, acting to bring the ends of the bundle of wood level, as set forth. Eighth, I claim the vertical moving frame *o*, forming the receptacle for the wire, and the guide for the apparatus that wraps said wire around the bundle of wood, as set forth. Ninth, in combination with the frame *o*, I claim the chain 28, to wrap the wire around the bundle of wood, and the clump S^1, to hold the wire near the middle part thereof, as described and shown. Tenth, I claim the circular twisting jaws 30, moving in dovetails and acting when revolved by competent means, to twist the ends of the wires together in the manner and for the purposes specified. Eleventh, I claim the arrangement of the sliding and revolving shaft *t*, in combination with the twisting jaws 30, for the purposes as set forth. Twelfth, I claim the spring guides 25, to keep the wire straight while passed into the machine, in combination with the travelling jaw or clamp *p*, and with the shear 26, as described and shown."

No. 25,157. John Alexander, of Brooklyn, N.Y., assignor to himself and James Ritchie, of same place, for an "Improvement in patterns for moulding."

"I claim the employment or use of a 'former' C, with a pattern D, constructed of a plastic substance, and formed on or over the 'former' C, substantially as described, to produce molds in sand for the casting of hollow ware and other castings of the exact thickness required."

No. 25,158. Chas. Bradfield, of Philadelphia, Pa., assignor to C. Stewart, Bradfield, of same place, for an "Improvement in hanging the bodies of wheel vehicles."

"I claim, 1st, attaching the wheels C to the body A, by means of the arms *e*, secured to the traverse bars *d* of the shafts or arbors *b*, *b*, which are fitted into the flanches *a* and bearings *c*, *c*, of the plates B of the body A, and have springs D placed between their flanches *a* and traverse bars *d*, substantially as and for the purpose set forth. 2nd, attaching the thills E to the body A, by means of the bars G, fitted in the eyes *g*, and secured thereon at the desired hight, by set screws *h*, substantially as described."

No. 25,159. Calvin Fletcher, of Cincinnati, O., assignor to Addison C. Fletcher, of same place, for an "Improved apparatus for supplying furnaces with hot air."

"I claim the specific arrangement as herein before described, of the fan I, and the steam chambers A, communicating with the chambers B, C, together with the inlet steam pipe E, the cold air passages *a*, hot air pipes G, *l*, *l*, and the pipes F, for the discharge of the water of condensation, for the purposes set forth."

No. 25,160. Hiram L. Hall, of Beverly, Mass., assignor to the Beverly Rubber Company, of same place, for an "Improvement in restoring waste vulcanized rubber."

"I claim as my invention, and desire to have secured by Letters Patent, the restoring of waste vulcanized rubber or gutter percha, by the use of superheated steam, substantially in the manner and for the purpose above described."

No. 25,161. Miles B. Hand, of Handsboro', Miss., assignor to himself and Sheldon B. Hand, of same place, for an "Improvement in cotton presses."

"I claim the combination of the toggles C, C, and screws E, E, when the latter are connected to the driving or power shaft, or to a shaft connected therewith by means of universal joints H, H, substantially as and for the purpose set forth."

No. 25,162. JOHN J. LEHAYE, of Reading, Pa., assignor to himself and John Tucker, of Philadelphia, Pa., for an "Improved churn."

"I claim the vessel B, cylinder C, and reciprocating plunger E, adapted to and arranged in respect to each other substantially as herein set forth, in combination with the devices herein described, or their equivalents, for enlarging or contracting at pleasure the communication between the said cylinder and vessel, for the purpose specified."

No. 25,163. CAESAR NEWMANN, of New York, N. Y., assignor to Abraham Prince, of Boston, Mass., for an "Improved machine for making hooped skirts."

"What I claim, is, the combination of a series of twisting apparatus, with guide rods, for the purpose of forming a hoop skirt, substantially in the manner and for the purposes set forth. I also claim, in combination with the twisting apparatus, the elevating screw, and its appendages, and the mode of operating the same, as described. I also claim collapsing the guides to form different sized skirts, and to deliver the same, as specified."

No. 25,164. ROBT. POOLE, of Baltimore, Md., assignor to himself and German H. Hunt, of same place, for an "Improvement in 'the fifth wheel' of fire engines and other vehicles."

"What I claim is, hanging the pivoted fifth wheel of a steam fire engine or other heavy carriage to a bolster, when the latter plays within or over the axle of a vehicle, and is suspended to springs, which have their bearings or seats on said axle, substantially in the manner and for the purposes herein described."

No. 25,165. E. L. PRATT, of Philadelphia, Pa., assignor to himself and R. B. Fitts, of same place, for an "Improved meat safe."

"I claim a new article of manufacture, being a combined arrangement of a cover A, perforated with small holes at the upper part *d*, and a stove B, also perforated with small holes *f*, substantially as and for the purpose specified."

No. 25,166. JOHN B. WICKERSHAM and HENRY JENKINS, of Brooklyn, N. Y., assignor to the New York Wire Railing Company, for an "Improvement in iron fences."

"What we claim as our invention, and desire to secure by Letters Patent, is, constructing railings, fences, and other articles by metallic bars, intersecting each other, and united by a cast-iron ornament or connection, when one or more bars, running parallel or in one direction, pass through between two or more bars, running in another direction, substantially as specified."

No. 25,167. ARCHILAUS WILSON, of New York, N. Y., assignor to D. A. Heald, A. L. Wilmarth, C. T. Martin, and H. A. Hurlburt, for an "Improved mode of lighting gas by electricity."

"What I claim as my invention, and desire to secure by Letters Patent, is, combining with a gas or other burner metallic points, approaching but not coming in contact with each other, substantially as described, but this I only claim in combination with the inductive apparatus, substantially as described, for the purpose of effecting ignition by means of the electric discharge or spark, as specified. I also claim combining with a galvanic battery an inductive apparatus, or coil metallic points, and an electro magnet, for the purposes specified, and substantially as herein specified."

RE-ISSUES.

G. W. BISHUP, of New York, N. Y., for an "Improvement in breech-loading ordnance."—Patented 9th September, 1856. — Re-issued 16th August, 1859.

"I claim, combining the movable breech-pin with the bore of the cannon by means of movable locking or abutting pieces or segments, substantially such as described, and which, after the breech pin is inserted, are shifted and made to cross the joint of the breech pin and bore, to hold the breech pin against the force of the discharge, as set forth."

ALLAN CUMMINGS, of New York, N. Y., for an "Improvement in ash sifters." — Patented 8th March, 1859.—Re-issued 6th August, 1859.

"I claim the employment of a conical seive, or seive of an equivalent form, in combination with the two receptacles, one for the siftings, and the other for the substances sifted, substantially as and for the purpose described. I also claim the conical deflector for deflecting the substances to be sifted, and concentrating them, in combination with the spreader, substantially as described, whether the spreader be itself the seive, or employed with a seive below, as described. I also claim, in combination with the seive, the under conical surface of the deflector for preventing the escape of dust from the apparatus as described. And I also claim, in combination with the deflector, the spreader, the conical seive, and the receptacles for the siftings, and the substances sifted, substantially as and for the purpose specified."

RALPH J. FALCONER, of Washington, D. C., for an "Improved sash fastener." — Patented 31st August, 1858.—Re-issued 16th August, 1859.

"I claim extending the cap portion m^1 of the catch *m*, over and along the front edge of the catch plate *n*, to form a catch opening *x*, flush with the edge of the plate *n*, so that the window cannot be unfastened, without having the point of the hook *a* withdrawn entirely clear from the meeting rail of the upper sash, and out of the way of the bars, above when the lower sash is raised. Second, and, in combination with the catch *m*, hook *a*, and plate *e*, I claim the check a^1, or equivalent thereof, for the purposes herein above specified."

J. R. ROBINSON and H. S. ROBINSON, of Clinton, Mass., for an "Improvement in valve cocks."—Patented 31st August, 1858. — Re-issued 16th August, 1859.

"I claim, firstly, the method of constructing valves, valve cocks, and gates, substantially as specified, so that when the port or ports therein are uncovered, there shall be a straight passage or passages from the induction port or ports, in the valve chamber to the eduction port or ports in the same for the purposes described, whether the valves, in such valves, valve cocks and gates are made in one or more than one piece. And, secondly, making the valves in valves, valve cocks, and gates, in separate or detached pieces, substantially as and for the purposes described."

FRANCIS WOLLE, of Philadelphia, Pa., for an "Improvement in machines for making paper bags." — Patented 6th July, 1858.—Re-issued, 16th August, 1859.

"I claim, 1st, the combination of the creaser C, and lappers F, G, arranged and operating substantially in the manner and for the purpose herein described and set forth. 2nd, the folding of a lap in the manufacture of a bag of paper, or other material, by means of a creaser blade, and two rolling surfaces operating in combination with each other, substantially as herein described. 3rd, the revolving lapper shaft U, in combination with the creaser V, S, the feed roller M, and aprons *u*, *q*, substantially as herein described, the creaser being brought into operation on the lap during the intermission in the motion of the feed rollers."

CONRAD POPPENHUSEN, of New York, N.Y., assignee of L. Otto P. Meyer, of Newtown, Conn., for an "Improvement in treating caoutchouc and other vulcanizable gums."—Patented 4th April, 1854.—Re-issued 16th August, 1859.

"I claim the mode of operation or mode of procedure, substantially such as herein described, which said mode of operation consists in the employment of a pliable or flexible envelope, substantially such as herein described, or the equivalent thereof, applied by pressure to the hard compound of vulcanizable gum while in the green or plastic state, so as to insure the contact of such covering with the surface of the compound, and while thus covered or protected subjecting it to the vulcanizing heat, and when vulcanized stripping off such covering, the whole process being substantially such as specified."

CHRISTIAN SHUNK, of Canton, Ohio, for an "Improvement in refining iron in the hearth of a blast furnace."—Patented 17th May, 1859.—Re-issued 16th August, 1859.

"I claim the employment immediately before the tapping of the furnace of an auxiliary tuyere pipe or pipes within the hearth of the common blast furnace, when charged with

molten iron at such an inclination as to cause the blast of air to commingle with the particles of iron, and give to the whole mass in the hearth a spiral or rotary motion, substantially as described."

Design.

Garretson Smith and Henry Brown, of Philadelphia, Pa., assignors to Cox, Whitman, and Cox, of same place, for a "Design for stoves."

"We claim the design, configuration, and arrangement of the ornaments on the places, as described, forming a new stove design."

Extension.

Beriah Swift, of Washington, D. C., for an "Improvement in grinding mills."—Patented 16th August, 1845.

"I claim making the grinding teeth of mills in concentric rows projecting from the surface of the plates, so that the teeth of one plate shall run in the spaces between the teeth on the other and vice versa, in combination with the grooves or furrows running towards the periphery of the plates, through which the substances acted upon are carried outwards, whether these furrows be arranged radially according to what is technically termed the eight-quarter dress, or in any other manner leading from the inner to the outer range of teeth. And I also claim, in combination with the teeth arranged as expressed in the above claim, the breaking the teeth on a cylinder or cone, arranged substantially as herein described, and for the purpose specified."

List of Specifications published during the week ending 2nd September, 1859.

No.	Price.	Subject-Matter.
		1855 (*Disclaimer*).
2311	4*d.*	Extracting grease from woollen, cotton, and worsted waste.
		1859.
235	1*s.* 5*d.*	Furnaces.
236	7*d.*	Breech loading fire-arms and cartridges to be used therewith.
237	5*d.*	Construction of ships' blocks.
238	6*d.*	Improved method of driving centrifugal machines.
239	3*d.*	Coupling for railway carriages, &c.
240	3*d.*	Preparation of punch.
241	3*d.*	Straw and hay cutters.
242	7*d.*	Revolving fire-arms.
243	3*d.*	Currying leather.
244	3*d.*	Machinery for cleaning rice.
245	3*d.*	Improved metal for journey brasses.
246	6*d.*	Looms for weaving.
247	3*d.*	Pens and pen-holders.
248	3*d.*	Ships' rigging.
249	1*s.* 7*d.*	Machinery for preparing wool and other fibrous substances.
250	7*d.*	Construction and adaptation of rollers for drawing and compressing fibres, &c.
251	3*d.*	Biscuits.
252	8*d.*	Sewing machines.
253	3*d.*	Manufacture of prussiate of potash or soda, &c.
255	5*d.*	Construction of chimneys and chimney pots.
256	10*d.*	Propelling vessels.
257	3*d.*	Horse-shoes, &c.
258	9*d.*	Water-pressure engines, applicable to pumping machinery.
259	10*d.*	Breech-loading gun.
260	3*d.*	Furnaces.
261	3*d.*	Regulating the pressure of steam in steam boilers, &c.
262	8*d.*	Manufacture of knotter plates used in the manufacture of paper.
263	3*d.*	Obtaining, distributing, or applying electricity and magnetism.
264	3*d.*	Extracting copper from pyrites, residuum, &c.
265	10*d.*	Machinery for manufacturing screws, and tapping nuts for screws.
266	5*d.*	Operating ventilating valves or gas burners.
267	1*s.* 1*d.*	Inodorous closet for the separation of excrement to be used as manure.
268	3*d.*	Gas meters, regulators, and burners.
269	10*d.*	Machinery for moving vessels on slips.
270	4*d.*	Reducing ores and obtaining metals therefrom.
271	3*d.*	Elastic clasp.
272	5*d.*	Apparatus for guiding the pen or pencil in writing or drawing.
273	3*d.*	Self-acting apparatus for supplying and removing paper to letter-press printing machines.
274	10*d.*	Sewing machines.
275	3*d.*	Breech-loading and other fire-arms.
276	2*s.* 10*d.*	Transmitting motive power in machinery.
277	3*d.*	Heating or warming buildings.
278	1*s.*	Ventilating ships.
279	3*d.*	Extracting gold and silver from their ores.
280	3*d.*	Manufacture of hearthrugs.
281	9*d.*	Brake for railway carriages.
283	5*d.*	Hats.
284	6*d.*	Water gauge for steam boilers.
285	3*d.*	Mining apparatus, &c.
286	3*d.*	Percussion caps.
287	3*d.*	Pianofortes.
288	3*d.*	Barometers.
289	9*d.*	Sewing machines.
290	8*d.*	Expressing liquid from semi-fluid substances.
291	1*s.*	Raising sewage and other waters.
292	3*d.*	Producing metallic sulphates.
293	3*d.*	Treatment and application of bituminous matters, &c.
294	10*d.*	Machinery for grinding or pulverizing various substances.
295	7*d.*	Blowing machine.
296	11*d.*	Stereoscopic apparatus.
297	6*d.*	Drain pipes and tiles.
298	3*d.*	Ventilating mines.
299	3*d.*	Steam engine.
300	3*d.*	Breech-loading fire-arms.
301	4*d.*	Ornamenting surfaces.
302	7*d.*	Manufacture of eyes or fastenings for stair rods.
303	5*d.*	Curtain rings.
338	7*d.*	Treatment of charcoal.
351	3*d.*	Double-bottomed horse-shoes.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Accrington (*Mechanics' Institution, Bank Street*).
Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
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Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
Leamington Priors (*Public Library, Town Hall*).
Leeds (*Town Clerk's Office, Town Hall*).
Leicester (*Corporation Library, Town Hall*).
Limerick.
Liverpool (*Free Public Library, Duke Street*).
——— (*Royal Institution*).
London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*)
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
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Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices, Institutions, &c.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
Dublin Castle, Dublin.
Rolls Office, Chancery (Four Courts), Dublin.
Office of Chancery, Edinburgh.
East India House, Military Stores, Leadenhall Street.
Incorporated Law Society, Chancery Lane, London.

Seats of Learning.

Cambridge University.
Trinity College, Dublin.
Queen's College, Galway.
University College, London.

British Colonies.

Malta.
Cape of Good Hope.
Mauritius.
India—Bengal.
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Madras.
Bombay.
Ceylon.
Victoria—Patent Office, Melbourne.
Parliamentary Library, Melbourne.
New South Wales.
South Australia.
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Newfoundland.
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Foreign States.

Austria—Handels Ministerium, Vienna.
Bavaria—Königliche Bibliothek, Munich.
Belgium—Ministère de l'Intérieur, Brussels.
France—Bibliothèque Impériale, Conservatoire des Arts et Métiers, Hôtel de Ville. } Paris.
Gotha—Ducal Friedenstein Collection.
Hanover—Ministerium des Innern, Hanover.
Netherlands—Ministère de l'Intérieur, The Hague.
Prussia—Handels Ministerium, Berlin.
Russia—Bibliothèque Impériale, St. Petersburg.
Sardinia—Ufficio delle Privative, Turin
Saxony—Polytechnische Schule, Dresden.
Sweden—Stockholm.
United States—The Patent Office, Washington.
The Astor Library, New York.
The State Library, Albany.
The Franklin Institute, Philadelphia.
The Free Library, Boston.
The Philadelphia Library Company.
Wurtemberg—Bibliothek des Musterlagers, Stuttgart.

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Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 3rd September, 1859.

Mornings - - - -	1692
Evenings - - - -	1230
Total - - -	2922

Since the opening of the Museum Free Daily (May 12, 1858,)—135,642.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

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PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
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PRODUCTION AND APPLICATIONS OF GAS.
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B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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Published at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 593. FRIDAY, SEPTEMBER 9, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1806. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "A system of columns or monuments to be employed as sentry boxes, branch post and other offices, telegraph and fire-engine stations."—A communication from Irénée Leÿs, residing at Amsterdam, Holland.

On his petition, recorded in the Office of the Commissioners on the 5th day of August, 1859.

1869. To ROBERT DAWSON CLEGG, of Islington, in the county of Middlesex, Gentleman, and THOMAS SAUNDERS, of Islington, in the said county, Mechanic, for the invention of "Improvements in locks."

On their petition, recorded in the Office of the Commissioners on the 13th day of August, 1859.

1926. To WILLIAM HENRY HILL, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "An improvement in the manufacture of boxes or cases, and in fastenings for the same."

1928. To WILLIAM HOLLINS, of Glossop, in the county of Derby, Overlooker, and FREDERICK HYDE, of the same place, Mechanic, for the invention of "Improvements in power looms for weaving, part of which improvements is also applicable to other machines driven by power."

1930. And to THOMAS RICHARDSON, of New Bridge Street, Newcastle-on-Tyne, for the invention of "Improvements in treating copper ores."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of August, 1859.

1931. To GEORGE PEARSON, of the city of Manchester, in the county of Lancaster, Machinist, for the invention of "Improved machinery for manufacturing boots and shoes."

1933. To JOSEPH HENRY, of Bury, in the county of Lancaster, and JAMES EDWARD HYDE ANDREW, of Audenshaw, in the said county, Machinists, for the invention of "Improvements in looms for weaving."

1934. To JOHN BLAKE, of Accrington, in the county of Lancaster, Engineer, for the invention of "Improvements in steam and vacuum gauges."

1935. To DANIEL RUSSELL, of No. 1, Grove Cottage, Southampton Street, Camberwell, in the county of Surrey, and JONATHAN RUSSELL, of No. 6, Devonshire Terrace, Queen's Road, Peckham, in the county of Surrey, for the invention of "Improving the means of docking and lifting ships out of the water, for the purpose of examining and cleaning their bottoms, effecting any necessary repairs, fixing new screw propeller, rudder, raising sunken vessels, or anything else for which it is desirable to get at any portion of a vessel generally under water."

1936. To THOMAS BRIGGS, of Richmond Hill Works, Salford, in the county of Lancaster, Tarpauling and Oil Cloth Manufacturer, for the invention of "Improvements in the manufacture of tarpauling."

1937. To JAMES MURRAY, Knight, of Dublin, Doctor of Medicine, for the invention of "Improvements in the preparation and bottling or preserving of carbonated cod liver oil and other aerated liquids."

1938. And to CHARLES TIOT JUDKINS, of No. 22, Ludgate Street, in the city of London, Dealer in sewing machines, for the invention of "Improvements in sewing machines."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of August 1859.

1939. To HENRY SMITH and THOMAS WOODHOUSE ASHBY, of Stamford, in the county of Lincoln, Agricultural Implement Makers, for the invention of "An improved construction of harrow."—A communication from abroad by Messrs. J. Pintus and Co., of Berlin, in the kingdom of Prussia.

1940. To LOFTUS PERKINS, of Francis Street, Gray's Inn Road, in the county of Middlesex, for the invention of "Improvements in mills."—A communication from abroad by James Bogardus, of Duane Street, New York.

1941. And to AMOS PIERCE CHAMBERLAIN, of New Orleans, in the United States of America, but at present residing in London, Engineer, for the invention of "Improvements in machinery or apparatus for cutting cork, part of which improvements is also applicable to cutting paper, caoutchouc, and other substances."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of August, 1859.

1943. To JAMES FURRELL, of No. 5, Upper Phillimore Place, Kensington, in the county of Middlesex, Gentleman, for the invention of a "Lock protector, consisting of an adhesive shield or cover to be placed over the keyhole of a lock for the purpose of ensuring that any access to the interior of the lock shall be readily detected."

1945. To THOMAS BIRD, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in castors."

1946. To JOHN MUIR HETHERINGTON, of Manchester, in the county of Lancaster, Machinist, for the invention of "Improvements in machinery or apparatus for carding cotton, wool, and other fibrous materials."

1947. To HERRMANN GRUNDT, of America Square, for the invention of "Improvements in life boats."

1948. To WALTER MACLELLAN, of Glasgow, in the county of Lanark, North Britain, Iron Merchant, for the invention of "Improvements in rolling or shaping iron for railway spikes and other purposes."

1949. And to CHARLES THOMAS BOUTET, of No. 12, Chenies Street, Tottenham Court Road, London, in the county of Middlesex, for the invention of "A new mechanical mill proper for milling every sort of grains, dried or torrefied, such as coffee and cocoa."

On their several petitions, recorded in the said Office of the Commissioners on the 26th day of August, 1859.

1950. To CHARLES HANSON, of Huddersfield, in the county of York, Watch Maker, for the invention of "An improvement in the chronometer escapement of a watch."

1951. To FRANCIS WRIGLEY, of Manchester, in the county of Lancaster, Consulting Engineer, for the invention of "Certain improvements in the construction of the permanent way of railways."

1952. To JAMES ROTHWELL ROSTRON, of Edenfield, in the county of Lancaster, for the invention of "Improvements in furnace bars."

1953. To WILLIAM HENRY BALMAIN, of St. Helens, in the county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in the manufacture of glass, and other vitrified substances."

1954. To THOMAS CRAVEN, of Scarborough, in the county of York, Plumber, for the invention of "Improvements in ball cocks or valves."

1955. To GEORGE BELL, of South Inch Michael, in the county of Perth, North Britain, Farmer, for the invention of "Improvements in reaping and mowing machines."

1956. To JOHN HECKETHORN, of No. 32, Stanmore Street, Caledonian Road, in the county of Middlesex, for the invention of "Improvements in candles and wicks, also in lamps or candlesticks for using with the same."

1958. And to EMIL RETTIG, of New Cross, in the county of Kent, Merchant, for the invention of "Improvements in the form and construction of anchors."—Partly a communication from abroad by Ferdinand Martin, of Marseilles, in the French empire, Merchant.

On their several petitions, recorded in the Office of the Commissioners on the 27th day of August, 1859.

1960. To THOMAS MERITON, of No. 39, Pinnasberg, Saint Pauli, Hamburg, Engineer, for the invention of "Improvements in governors for regulating the speed of marine and other engines and machinery."

1961. To CHARLES KERMAN, of the Vulcan Iron Works, Millbrook, near Southampton, for the invention of "An apparatus to prevent the sinking of vessels through leakage, for lifting and floating vessels off when stranded, and for raising and floating sunken vessels."

1962. To JESSE RALPH HOWARTH, of Manchester, in the county of Lancaster, Finisher, for the invention of "Certain improvements in machinery or apparatus for calendering and finishing textile fabrics or other surfaces."

1963. To WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Certain improvements in sewing and stitching by machinery."—A communication from abroad by Kasimir Vogel, of Chelsea, in the county of Suffolk, and state of Massachusets.

1965. To DAVID TODD, of Bridge-of-Weir, in the county of Renfrew, North Britain, Mill Manager, for the invention of "Improvements in machinery or apparatus for carding and treating or preparing fibrous materials."

1966. To BENJAMIN BAUGH, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the county of Warwick, for the invention of "Certain improved machinery or mechanical arrangements for raising or giving form to articles formed of sheet metal, such as knobs, thimbles, ferules, and parts of umbrella and parasol furniture, button shells, and other such like small articles."

1967. And to GILBERT STANTON FLEMING, of 498, New Oxford Street, in the county of Middlesex, for the invention of "A head-rest, suitable for keeping the head in a comfortable position in travelling, sitting, or lying down.

On their several petitions, recorded in the Office of the Commissioners on the 29th day of August, 1859.

1969. To JOHN BOWEN BARNES, of Summer Lane, Birmingham, in the county of Warwick, and JOHN LOACH, Japanner, of Caroline Street, Birmingham as aforesaid, for the invention of "Certain improvements in oars for impelling boats, as also in the row-locks in which they work."

1971. To JAMES HARE, of Hamstead Road, Handsworth, near Birmingham, Music Smith, for the invention of "Improvements in piano fortes."

1975. To CHARLES CHAMBERS and JAMES CHAMBERS, of Archer Street, Westbourne Grove, in the county of Middlesex, Engineer, for the invention of "Improvements in apparatus for sawing staves and other forms of wood."

1977. And to ROBERT FRANCIS DRURY and ENSOR DRURY, of the firm of Drury, Brothers, the Don Tool Works, Sheffield, in the county of York, Machinists and Tool Makers, for the invention of "Improvements in vices."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of August, 1859.

1979. To JAMES NUTTALL, of Todmorden, in the county of York, Cotton Spinner and Manufacturer, for the invention "Certain improvements in and applicable to machinery used in preparing and spinning cotton and other fibrous materials."

1981. To ROBERT BEVERLEY, of Leeds, in the county of York, Gas Meter Maker, for the invention of "Improvements in wet gas meters."

1983. To SAMUEL MIDDLETON, of Blackfriars Road, in the county of Surrey, Cordwainer, for the invention of "Improvements in the mode or method of uniting and otherwise manufacturing articles of leather, and such like materials, and in the apparatus and machinery connected therewith."

1985. To AUGUSTUS SMITH, of Brentwood, in the county of Essex, Manufacturer, for the invention of "Improvements in machinery for the preparation of cocoa nut fibre."

1991. And to JOHN CHATTERTON, of Devonshire Street, Islington, in the county of Middlesex, for the invention of "Improvements in the manufacture of tubes of gutta percha, and other substances capable of being moulded in a similar manner when in a plastic state, and also in coating wire and other cores with such substances."

On their several petitions, recorded in the Office of the Commissioners on the 31st day of August, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the Petition of

2032. JOHN JAMES SIEBER, of 5, Baring Street, New North Road, London, in the county of Middlesex, praying for Letters Patent for the invention of "Improvements in power looms,"—a communication from abroad by Henry Honegger, of Thiengen, Grand Duchy of Baden,—was deposited and recorded in the Office of the Commissioners on the 6th day of September, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

8th September, 1859.

613. JOHN ERWOOD, of 132, Goswell Street, Clerkenwell, in the county of Middlesex, Paper Stainer, and JOSEPH SKERTCHLY, of Ashby-de-la-Zouch, in the county of Leicester, Engineer, for an invention of "Improvements in the manufacture of glass, sand, and emery papers and cloths, and other similar articles used for like purposes."—Dated 9th March, 1859.

621. JAMES YUILL, of Glasgow, in the county of Lanark, North Britain, Saddlers' Ironmonger, for an invention of "Improvements in saddle trees."—Dated 10th March, 1859.

623. HENRY LODGE, of Liverpool, in the county of Lancaster, Merchant, for an invention of "Improved means of protecting ships' batteries and other constructions or buildings from the effects of projectiles of various kinds."—Dated 10th March, 1859.

627. SAMUEL WHEATCROFT, of Brudenell Place, New North Road, county of Middlesex, Engineer, for an invention of "Improvements in the construction of goffering and rouching machines, in order to render them self-registering and self-indicating."—Dated 11th March, 1859.

629. FREDERICK CLARK, of Norland Square, in the county of Middlesex, Gentleman, for an invention of "An improved mode of and apparatus for cutting, drying, and preparing peat to be used as fuel, or for other purposes for which it may be usefully employed."—Dated 11th March, 1859.

635. JOHN THOMAS CALOW, of Staveley, in the county of Derby, Joiner, Cabinet Maker, and Carriage Builder, for an invention of "A compound action in cage machinery with the apparatus connected therewith, having a perforated shield for saving life and property in the event of a rope, band, or chain breaking, or the engineman drawing the cage too high at coal or other shafts where slides are applicable, which said invention is also applicable to hoisting or other lifting machines."—Dated 12th March, 1859.

636. JAMES THORNTON, of Liverpool, in the county of Lancaster, for an invention of "Improvements in machinery for the manufacture of bricks, tiles, and other similar articles."—Dated 12th March, 1859.

637. JOHN COURT, of Brompton Row, in the county of Middlesex, Gas Fitter, for an invention of "An improvement in nibs for gas burners."—Dated 12th March, 1859.

638. RICHARD ALLISON, of Birmingham, in the county of Warwick, Engineer, for an invention of "Improvements in apparatuses for boring and sinking."—Dated 12th March, 1859.

639. JAMES MACNAB, of the town and county of Linlithgow, North Britain, Designer, for an invention of "Improvements in telegraphing or signalling apparatus."—Dated 12th March, 1859.

640. RICHARD WALLER, of 50, Baker Street, Portman Square, in the county of Middlesex, Gentleman, for an invention of "Improvements in joining

leather, flexible and textile materials, for the production of boots and shoes, and articles of the like description, and harness, strapping, bags, sails, tent covers, portmanteaus, and such other articles, together with machinery and apparatus for that purpose."—Dated 14th March, 1859.

641. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for an invention of "An improved method of treating wool and other fibres, in order to form threads." — A communication from Messieurs Tavernier and Vouillon, residing in Paris." — Dated 14th March, 1859.

644. David Joy, of Leeds, in the county of York, Engineer, for an invention of "Improvements in hydraulic engines and meters." — Dated 14th March, 1859.

649. Walter Langton, of 14, Wharf Belvedere Road, Lambeth, in the county of Surrey, for an invention of "Improvements in the manufacture of keys and wood fastenings used in constructing railways."—Dated 15th March, 1859.

668. James Clark, of Newton Heath, near Manchester, for an invention of "Improvements in the manufacture of fabrics in which compounds containing india rubber are used." — Dated 16th March, 1859.

670. Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London, for an invention of "Improvements in the manufacture of crank axles."—Dated 16th March, 1859.

722. William Weild, of the city of Manchester, in the county of Lancaster, Machinist, for an invention of "Improvements in machinery and arrangements for coating slips, sheets, rods, and bars of metal, and laths, rods and boards of wood, and similar articles formed of other substances, with paints, varnishes, and other like preparations, and drying the same."—Dated 22nd March, 1859.

753. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "A machine for separating oats from their husks or chaff."—A communication from abroad by Léon Jean Emile Dupont, of Paris.—Dated 24th March, 1859.

772. Charles James Richardson, of No. 34, Kensington Square, and No. 9a, King St., Whitehall, both in the county of Middlesex, Architect, for an invention of "Improvements in apparatus to be applied to chimnies or flues of buildings for preventing downdraught or return smoke, for their insuring upward ventilation, and for reducing the quantity of smoke, or the blacks from the smoke passing into the atmosphere."—Dated 28th March, 1859.

778. Thomas Carr, of Bebington, in the county of Chester, Artificial Manure Manufacturer, for an invention of "Improvements in machinery for disintegrating artificial manures and various other substances."—Dated 29th March, 1859.

1042. Thomas Holt, of Lower Place, in the parish of Rochdale, and county of Lancaster, Engineer, and John Brown, of Oxford Street, Well Field, in the same parish and county, Agent, for an invention of "Improvements in apparatus or an improved apparatus for heating water for the supply of steam boilers, which improvements or apparatus are also applicable in some cases for the prevention of incrustation in steam boilers."—Dated 26th April, 1859.

1347. Alfred Suter, of 65, Fenchurch Street, in the city of London, for an invention of "A furniture castor to be used upon the feet of tables, seats, and all descriptions of furniture or other things." —Dated 31st May, 1859.

1454. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in casting cylinders and tubes."—A communication from abroad by Freeborn Adams, of Somerville, in the state of Massachusetts, United States of America.—Dated 16th June, 1859.

1527. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Apparatus for exhibiting stereoscopic pictures." —A communication from abroad, by J. Stuart Perry, of Newport, in the state of New York, United States of America.— Dated 25th June, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 7th September*, 1859, *inclusive*).

6th September.

2087. Félix Estivant, in the name of the Society Estivant, Brothers, of Paris, in the empire of France, and of 45, Essex Street, Strand, London, for an invention of "Improvements in casting metal tubes."—Dated 8th September, 1856.

2095. William Petrie, of Woolwich, in the county of Kent, Civil Engineer, for an invention of "Improvements in the manufacture of sulphuric acid, and the apparatus employed therein, parts of which improvements are applicable to the manufacture of nitric, hydro-chloric, and other acids."—Dated 8th September, 1856.

7th September.

2093. Francis Mitchell Herring, of Basinghall Street, in the city of London, Manufacturer, for an invention of "Improvements in applying magnetic action to combs and brushes."—Dated 8th September, 1856.

2126. John Milnes, of Sutton Mill, in the parish of Kildwick, in the county of York, Overlooker, and William Thompson, of Sutton Mill, aforesaid, Mechanic, for an invention of "Improvements in looms for weaving."—Dated 11th September, 1856.

2130. Albert Demerit Bishop, of Hanover House, Maryon Road, Charlton, in the county of Kent, for an invention of "Improvements in derricks for raising sunken ships and other heavy bodies from below water, and moving heavy bodies from one place to another."—Dated 11th September, 1856.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 23rd August, 1859, and each bearing that date.

No. 25,168. Peter Arneson, of Newark, N. J., for an "Improvement in machinery for forming hat bodies."

"I claim the arrangement and combination of the adjustable plates K, K, perforated apron C, case M, feed rollers L, L, and pickers D, O, substantially as and for the purpose herein shown and described."

No. 25,169. Albert Betteley, of Boston, Mass., for an "Improvement in shipper gear for pulleys."

"What I claim is, the combination of a brake lever, a friction roller, and an independent brake applied and operating together, and with a shipping apparatus, substantially in the manner and for the purpose as above set forth."

No. 25,170. R. F. Billings, of Portland, Me., for an "Improved bed bottom."

"I claim the arrangement and combination of the side rails A, A, boxes B, B, provided with the springs C, and hinged lids *d*, *d*, and the slats D attached to the lids *d* by the straps *g*, subtantially as and for the purpose set forth."

No. 25,171. A. Bingham, of Talladega, Fla., for an "Improved bed bottom."

"What I claim is, the arrangement and combination of the longitudinal slots C, rocking foot rail B, rising and falling hand rail F, and segment guides G, as and for the purpose herein shown and described."

No. 25,172. Seba Bogert, of New York, N. Y., for an "Improvement in finger rings."

"I claim an extension or divided finger ring, having its ends provided with a catch or fastening, substantially as and for the purpose set forth."

No. 25,173. Charles W. Brown, of Boston, Mass., for an "Improvement in grinding mills."

"What I claim is, first, regulating the adjustable stone of a grinding mill, that the stone may have a vertical adjustment, so as to grind finer or coarser at the same time, so that the pressure of the runner, with respect to the stationary stone, will be automatically equalized, and be raised and lowered to free itself of any foreign substance getting between the two stones by means of levers I, J, and vertical rod N, toggles *n*, *n*, sliding collar *m*, and weighted arms T, T, acting upon the movable bearing plate S, or the equivalents thereof, when the same are arranged and operate in the manner essentially as specified. Second, I claim the method herein set forth, for regulating the flow of the grain from the hopper M, by adjusting the same vertically, in the manner herein set forth. Third, I claim the dead eye L, arranged within the eye of the upper stone A, and capable of being raised or depressed with the spindle G, for the purposes and in the manner specified."

No. 25,174. C. P. Buckingham, of Mount Vernon, O., for an "Improvement in cut-off gear for steam engines."

"What I claim is, the employment of the tripper N, when constructed and arranged as shown, so as to be adjusted, and to trip both valves in combination with drops J, arms K, and lifters L, as herein set forth."

No. 25,175. Wm. Burnet, of New York, N. Y., for an "Inkstand."

"I claim the construction of an adjustable apparatus, made substantially as described, connected with the cover and flexible bottom of an inkstand, so that at whatever height (above the lower orifice of the funnel) the ink in the main reservoir may be, there shall always be a sufficiency and never an overflow in the funnel on opening the inkstand cover."

No. 25,176. J. Carl, of Grenada, Miss., for an "Improvement in grinding mills."

"I claim, 1st, the arrangement and combination of the pivoted lever (*a*), shaft B, stone C, and screws *d*, substantially as and for the purpose herein shown and described. 2nd, the employment of a hinged top bar (*g*) in combination with the shaft B, and stones C, D, as and for the purpose herein shown and described."

No. 25,177. H. M. Coombs and L. W. Nelson, of Portland, Oregon, for an "Improved washing machine."

"What we claim is, the construction of the clothes cylinder A, surrounded with air tubes, having orifices for discharging air into the water, in the manner substantially set forth, in combination with the drying and washing cylinder D, and fire chamber I, all arranged and combined in the manner and for the purposes herein above specified."

No. 25,178. Cyprian U. Crandall, James H. Crandall, and Hoza N. Hawkins, of Cameron, Ill., for an "Improvement in mole plough."

"What we claim is, the combination of the opening or ditching piece A, G, with the standard F, and peculiarly formed hinged follower or former, constructed and operating in the manner and for the purposes set forth."

No. 25,179. Elliott H. Crane, of Burr Oak, Mich., for a "Rat trap."

"What I claim is, the arrangement of platform *a*, spring C, strap *x*, spring *i*, and chuck *p*, with arms B, B, provided with projections *n*, *n*, spring H, and box A, provided with hanging door D, when the usual parts are combined and operated, substantially as and for the purpose specified."

No. 25,180. Horace H. Day, of New York, N. Y., for an "Improvement in manufacture of ribbed elastic cloth."

"What I claim is, the method substantially as herein set forth of manufacturing ribbed elastic cloth, that is to say, elastic cloth containing strands of rubber, by forming the strands of rubber upon the covering cloth, with which they are to be permanently attached, in contradistinction to forming the strands separately, and afterwards attaching the covering material to them. I also claim the method substantially as herein set forth, of spreading the gum upon the covering cloth, and dividing it into strands at one process, so that the two operations are effected simultaneously at different parts of the same apparatus."

No. 25,181. Lucius Dimock, of Hebron, Conn., for an "Improvement in machines for winding thread."

"What I claim is, the arrangement and combination with the guide A of two separate and distinct series of grooves (*b*, *c*,) having their channels cut on opposite angles, as and for the purpose herein shown and described."

No. 25,182. Joseph Ditto and Henry Van Bergen, of New York, N. Y., for an "Improvement in composition for cement roofing."

"What we claim is, the composition prepared and composed of the materials described, in the proportions set forth, for the purpose of forming cement for roofing purposes."

No. 25,183. Daniel Dodge, of Keeseville, N. Y., for an "Improvement in nail machines."

"I claim a griper having a reciprocating movement towards and from forging or pointing machinery, and opening automatically at the outer extremity of its stroke, so as to allow the introduction, feeding forward, or removal of the rod while it is in this position, but holding the rod fast at every other stage of its operation and while in any other position, substantially as herein described. And in combination with a so operating griper, I claim the employment of a

gauge and a cutter or cutters, operating in the within-described order of succession with respect to each other and the griper."

No. 25,184. SETH W. EELLS, of Mansfield, O., for an "Improvement in writing fluids."

"What I claim is, the manner of combining the above materials, so as to prevent the oxidation of the indigo and the other colouring ingredients, as above specified."

No. 25,185. EDGAR S. ELLS, of Troy, N. Y., assignor to C. G. KEENEY, of Manchester, Conn., for an "Improvement in knitting machines."

"What I claim is, the combination and arrangement of the lever *e*, arm *h*, pin *j*, and slot *k*, with the lever *l*, detent *n*, and springs *o* and *p*, substantially as and for the purposes described."

No. 25,186. JAMES J. ESSEX, of Newport, R. I., for an "Improvement in elastic bulb syringes."

"I claim so combining and arranging the bulb, air chamber, and delivery valve with each other, and with the flexible suction and delivery tubes, that the air chamber shall be above the delivery valve, and shall be and shall remain while in use upright or nearly so, and under the control of the hand which grasps and operates the bulb."

No. 25,187. ALBERT FICKETT, of Rochester, N.Y., for an "Improved belt fastening."

"I claim the combination of the links *l*, *l*, *l*, with the rivets *r*, *r*, *r*, said links being inserted in the ends of the belt, in the manner and for the purpose substantially as described."

No. 25,188. ELBRIDGE FOSTER, of Hartford, Conn., for an "Improved easy chair."

"I claim the application and insertion of the quadrant slide into the centre of each of the arms or scroll of the side rail, so as to be unseen when the back is up, in the manner as herein described. Also, the application of the spring adjustable and extension back centre leg, in the manner and for the purpose, substantially as herein set forth and described, the whole constituting a new article of manufacture."

No. 25,189. JAMES F. GAMBLE, of Concord, Pa., for an "Improved method of feeding the saw to the stuff in sawing machines."

"I claim moving the saw forward when cutting, whilst the lumber is held stationary, substantially as set forth."

No. 25,190. STACY A. GARRISON, of Union, N.Y., for an "Improved hub reamer."

"I claim as new, and desire to secure by Letters Patent, the arrangement and combination of the cutters *c*, *d*, and the arbor A, as and for the purpose herein shown and described."

No. 25,191. WM. GOODALE, of Clinton, Mass., for a "Machine for making paper bags."

"I claim, 1st, the pasting apparatus, consisting of the roller G, fitted to work in an opening in the bottom of a paste box, the spring H, or its equivalent, and the adjustable stopper *a*, all combined to operate substantially as herein described. 2nd, the combination of the continuously revolving measuring rollers I, I^1, and the intermittently revolving feed rollers J, J^1, operating substantially as and for the purpose herein described. 3rd, the drop N, operating in combination with the cutter B, and the feed rollers, substantially as and for the purpose herein specified. 4th, folding the paper around a plate Q, or flat piece of any material narrower than the bag itself, or of the same width as but shorter than the bag itself, substantially as herein specified. 5th, the folders R, R^1, applied and operating in combination with the inclined planes *l*, l^1, at the sides of the folding table C, substantially as and for the purpose herein set forth. 6th, the combination with the folding table, and with a plate Q, narrower than the bag to fold the bag upon, of one or more movable inclined planes l^1, and creasing blades U, operating substantially as herein described. 7th, the drop *z*, applied and operating substantially as and for the purpose herein described. 8th, the bar 21, applied to the vibrating roller frame, and operating in combination with the knock off *u*, substantially as and for the purpose herein set forth."

No. 25,192. CHAS. GOODYEAR, of New Haven, Conn., for an "Improvement in porous napped rubber fabrics."

"I claim a new porous manufacture or fabric, composed of a woven or other cloth, or equivalent therefor, and india rubber, or allied gum, rendered pervious to air and impervious to water, substantially as described, and with a face of flocks, clippings, or shearings of woolen or other fibres, or equivalents therefor, substantially as and for the purpose described."

No. 25,193. RENSSELAER D. GRANGER, of Philadelphia, Pa., for an "Improvement in cooking stoves."

"I claim placing across the upper flue of a cooking stove a hollow box-formed partition, communicating with the external air, the said partition having two openings arranged in respect to the boiler holes in the top plate, as herein set forth, and the said openings having their inner surfaces perforated, as and for the purpose specified."

No. 25,194. JOHN S. HAWKINS and REZIN HAWKINS, of Greenfield, Ind., for an "Improvement in harvesters."

"We claim the arrangement of the main frame and team shaft, in combination with the adjustable frame *d*, and hinged shoe or cutting apparatus T, constructed and operated in the manner substantially as described, for the purpose specified."

No. 25,195. THOS. R. HOPKINS, of Petersburgh, Va., assignor to himself and R. E. Robinson, of same place, for an "Improvement in screw presses."

"I claim the use in combination with a power screw of a press or other machine of two revolving nuts F, F, which are fitted to gear into the thread of said screw, and so arranged and operated upon in order to give motion to the screw, that the upper one remains stationary while the lower one revolves, and vice versa, substantially as and for the purposes set forth."

No. 25,196. ROBT. W. HILL, of Naugatuck, Conn., for an "Improvement in cooking apparatus."

"What I claim, is, the portable cooking or heating apparatus herein-before described, composed of the hot-air chamber A, and fire pit B, when provided with ports C, furnished with registers, with the partition (*c*), and draught apertures (*a*), the whole being constructed and arranged as specified."

No. 25,197. HERMANN HIRSCH, of Berlin, Prussia, for an "Improved marine propeller."

"I claim as my invention, the peculiar form and construction substantially as herein described of a propeller, whereby the centrifugal force obtained is made to co-operate with and increase the effect of the screw."

No. 25,198. HERMANN HIRSCH, of Berlin, Prussia, for an "Improvement in the construction of ships."

"I claim as my invention, the form and construction substantially as herein set forth of the hull of ships or vessels, whereby the possibility of breakage of keel is removed, and a normal form, giving a maximum of steadiness, without retardation of velocity, is imparted to the bottom."

No. 25,199. RICHD. M. HOE, of New York, N.Y., for an "Improvement in feeding paper to printing presses."

"I claim the combination of the feeding machanism cutting apparatus, and the printing machine, or their equivalents in the said combination, for feeding the paper from a roll to a printing machine, and cutting or partially cutting it into sheets as it passes along to be printed, as set forth. I also claim making the cutter so as to leave the several sheets united in certain places, substantially as described, in combination with the conducting tapes as described, or the equivalents thereof, so that the conducting tapes may pass around the cutter cylinder as set forth. And I also claim, in combination with the cutter cylinder, and the grooved cylinders substantially as specified, or the equivalents thereof, the employment of the two pressure rollers or their equivalent, as described, for keeping the sheet distended."

No. 25,200. CHAS. H. HUNTER, of Shelbyville, Ind., for an "Improvement in machines for weighing grain."

"What I claim, is, the combination of the scale beam or lever *g*, with bag holder H, secured to one end, and the standard *c*, E, with rack and pinion for elevating or depressing the scale beam, when the whole is constructed and arranged substantially as described for the purposes set forth."

No. 25,201. Obed Hussey, of Baltimore, Md., for an "Improvement in harvesters."

"What I claim therein, is, first the combination of the main ground wheel seat and platform, when hinged to the main frame, substantially as herein described. I also claim the raising and lowering of the entire frame, finger bar, and outside divider upon the two ground supports, in a horizontal position, by means of a lever and its connections therewith, operated by the driver from his seat, substantially as described and for the purpose set forth."

No. 25,202. Jacob Jenkins, of Lynn, Mass., for an "Improved mechanism for protecting the upper of a boot or shoe, while applying the sole."

"I claim the above described arrangement of a shoe jack (or mechanism for supporting the toe and heel parts of a boot or shoe), a guard or protector constructed essentially in manner as set forth, (the same being made to encompass the upper of a boot or shoe, or so much of it as extends above the bottom surface of the last), and a clamping contrivance for adjusting the protector to the contour of the shoe, the whole being made to operate together as and for the purpose set forth. I also claim the above-described application and arrangement of an adjustable guard to the protector, whereby the fitting of the outer sole to the insole and upper, is not only greatly facilitated, but is rendered certain of being fixed in its true and proper position."

No. 25,203. Walter W. Kelly, of Reedtown, O., for an "Improvement in scales."

"I claim the adjustable rack G, and platform H, constructed and arranged as described, in combination with the centre piece H^1, upon which the rack and platform are placed, so that either one can be used at pleasure, in the manner specified."

No. 25,204. W. R. Landfear, of Hartford, Conn., for an "Improved pegging machine."

"I claim, 1st, the employment, in combination with the bar A, of the vertically and laterally moving box C, having a plate D, awl (*h*), punch (*i*), and inclined face (*j*), arranged substantially as herein described and shown, so that on the descent of the plate D, the awl will enter the sole, and the inclined face (*j*) will, while the awl remains in the leather, shove the bar A along laterally, thus ensuring certainty and regularity of feed, and on the elevation of plate D the box C will be moved laterally by the spring (*l*), the awl will be carried over the point where a new hole is to be made, and the punch brought over the previously made peg hole, in readiness to drive home the peg on the next descent of the plate D. 2nd, the combination with the vertically and horizontally moving box C, of the spring (*l*), for giving a lateral movement to said box, and the adjusting screw *m*, for regulating the spaces between the peg holes, as herein shown and described. 3rd, the arrangement and combination with the bar A, of the adjustable elastic plate F, against which the peg block is pressed, said plate being adjusted by means of the screw (*p*), to suit any size of pegs, as herein shown and described."

No. 25,205. Dl. Long, of Dayton, O., for an "Improvement in sleeping berths for railroad cars."

"I claim the arrangement and combination of the jointed supporter (*i*, i^1, i^{11}, i^{111}, *m*, *n*, *r*), and hinged seat and back (A), with the folding berth (*g*, g^1), screen (*k*), and rest (*l*), all constructed and operating, so as to form two sleeping berths, substantially as herein described."

No. 25,206. Eugene Martin, of Waterbury, Conn., for an "Improvement in alloys."

"I claim the process, or mode of procedure, substantially such as herein described, as applied to the ingredients such as described, and for the purpose specified."

No. 25,207. John M. May, of Janesville, Wis., for an "Improvement in pumps."

"I claim cylinder B, in combination with part A, when constructed, arranged, and operated with piston C and pipe E, substantially as described, and for the purposes set forth. I also claim the screw D, when used for the purpose of fastening and unfastening the stationary part of the pump in the well or reservoir to any suitable substance, substantially as and for the purposes described. I also claim set screw N, in combination with notch O or projection P, or their equivalents, to form a catch or wrench for turning the screw D and pump nearly in the path of a horizontal circle, in fastening and unfastening the stationary part of the pump in the well or reservoir, substantially as described; the set screw N also serving to gauge the descent of the piston, and to protect the valves from injury, as set forth. I also claim the devices consisting of springs G, G, segment J, and lever H, when connected together substantially as described, and for the purposes set forth."

No. 25,208. John M. May, of Janesville, Wis., for an "Improvement in pumps."

"I claim the device for connecting together the cylinders, and regulating the stroke of the pump, in combination with the point or spike I, or its equivalent, when used in open wells; and claim said device in combination with rod H, when used in drilled wells, substantially as and for the purposes set forth. I also claim the collar F, and springs *g*, *g*, *g*, *g*, *g*, *g*, *g*, *g*, when used in combination with the pump, or with the eduction pipe, and arranged substantially as shown."

No. 25,209. Hippolyte Monier, of Paris, France, for an "Improvement in argand gas-burners."

"I claim the construction of the argand burner, with its grate *a*, and external tube *b*, of clay, porcelain, or other incorrodible refractory non-conducting material, and with the inner tube and stem of metal, the several parts being combined, substantially as herein described."

No. 25,210. Richd. Montgomery, of New York, N. Y., for an "Improvement in corrugated iron bridges."

"I claim, 1st, the combination of the corrugated arch A, B, with the corrugated arch M, N, constructed and arranged in relation to each other, substantially as described and shown. 2nd, the combination of the peculiarly-formed blocks C, and bed plates F, with the abutment ends of the arches A, B, and M, N, substantially as and for the purposes set forth. 3d, the combination of the blocks D, and bottom plates G, with the cross rails K, L, and arches A, B, and M, N, substantially as and for the purposes described."

No. 25,211. Benjn. F. Moore, of New York, N.Y., for an "Improvement in ladies' bustles."

"What I claim, and desire to secure by Letters Patent, is, an inflated bustle for ladies' dresses, formed with the projecting points or scallops *d*, *d*, in the manner and for the purposes specified."

No. 25,212. Daniel Murray, of Fairfield, N. C., for an "Improvement in the mode of measuring grain."

"I claim the arrangement of the arms *a* and *h*, in combination with the slides *b* and *f*, constructed and operating as described, and for the purposes set forth."

No. 25,213. Wm. Murray, of Baltimore, Md., for an "Improvement in stamping machines for crushing ores, &c."

"I claim, 1st, the combination of two or more stampers, arranged on the same radial line, with two or more semi-circular, inclined, revolving, lifting, and dropping cams, which move together, and with a central driving shaft, substantially as and for the purposes set forth. 2nd, providing the semi-circular, lifting, and dropping cams with a vertical joint, about midway between their terminating ends, and with an oblong vertical slot at their rear or highest ends, and attaching said ends by means of a set screw, or its equivalent, to the frame of the cams, so that the inclination of said cams may be adjusted, to lift the stampers to a greater or less hight, according to the force required to perform the operation of stamping, substantially as and for the purposes set forth."

No. 25,214. Richd. H. Osgood, of Columbus, O., for an "Improved reciprocating saw."

"I claim providing the upper edges of saw teeth, with notches *f*, *f*, Fig. 1, substantially as described and represented, for the purpose of assisting to clear the kerf of saw dust."

No. 25,215. John L. Pott, of Pottsville, Pa., for an "Improvement in hoisting apparatus."

"I claim the inclined drum M, revolving in a plane parallel, or nearly parallel, to the lines of hoisting rope, in combination with the guide pulleys Q, Q, on the cross head R, the latter being operated from the shaft of the drum, through the medium of the screw K, or its equivalent, substantially as and for the purpose herein set forth."

No. 25,216. JOHN B. QUIGLEY, of Trenton, N. J., for an "Improvement in tapping water mains."

"I claim the employment of the pivoted standards B, jaws C, adjustable beam D, adjustable swivel F, chain G, vertical sliding piece E, and ferrule K, when the above parts are arranged and combined as herein shown and described."

No. 25,217. THOS. ROBJOHN, of New York, N. Y., for an "Inkstand."

"I claim the arrangement and combination of the ring D, cover D^1, arm (*e*), slotted projection E, and diaphragm G, so that by pressing down ring D, the cover will open, and the ink rise, and by releasing the ring, the ink will fall, and the cover D^1 will close, as and for the purposes herein shown and described."

No. 25,218. CHAS. W. RUSSELL, of Philadelphia, Pa., for an "Improved method of shaping bonnets."

"I claim the within-described method of shaping bonnets, etc., by means of a cord, or its equivalent, which is wound over the several parts of the bonnet, and which is retained in its position by hooks *a* and *d*, or their equivalents, substantially as herein specified."

No. 25,219. CHAS. W. RUSSELL, of Philadelphia, Pa., for an "Improved machine for pressing bonnets."

"I claim the arrangement of the adjustable roller V, or its equivalent, in such relation to the chain or rope, which connects the treadle with the press lever D, that the direction in which the pressing iron acts can be controlled, substantially in the manner and for the purpose herein described."

No. 25,220. AUGUSTIN P. SAMUEL, of New York, N. Y., for an "Improvement in rotary engines."

"I claim the method of governing and working the pistons C, D, by connecting their piston rods K, K, through the roller holders L, L, and rollers M, M, directly with the eccentrated curve E, substantially as and for the purposes set forth. I also claim the combination and arrangement, substantially as described of the valves *a* and *b*, with and within the movable pistons C, D, whereby such valves *a*, *b*, are opened by the first motion of the piston rods K, K, and before any motion is given to the pistons C, D, so that a passage is given to the steam within such pistons, and the steam admitted on both sides thereof, for the purpose of producing an equilibrium of pressure on each side of such pistons before they are put in motion. I claim, also, the construction and arrangement as above described, of the packing rings *r*, *s*, acting against each other by inclined surfaces, the outer ring *s*, being conical or tapering on both sides, and the inner ring *r* being tapering only on one side towards the ring *s*, and the inner ring acting against the other by means of the spring *z*, or its equivalent, expanding it outward against the cylinder, and inward against the piston, for the purposes specified."

No. 25,221. HEZEKIAH B. SMITH, of Lowell, Mass., for an "Improved mortising machine."

"I claim the relative arrangement of the fulcrum B, lever E, connecting rod G, and table B, with each other, in the manner described, when combined with power mortising machines, for the purposes set forth."

No. 25,222. GEO. S. G. SPENCE, of Boston, Mass., for an "Improvement in stoves."

"I claim the use of the conical inverted cup B, combined with the chain (*f*), or its equivalent, in the manner and for the purpose set forth. I also claim the combination of the air deflector, with the fire place door register, and so as to operate therewith, and deflect the entering currents of air, upon or toward the ignited surface of the fuel, as described."

No. 25,223. ORANGE N. STODDARD, of Oxford, O., for an "Improvement in sewing machines."

"I claim the yielding metallic loop-cheek B, *b*, operating in combination with a grooved hook A, *a*, or its described equivalent, in the manner and for the purpose set forth."

No. 25,224. ZURIEL SWOPE, of Lancaster, Pa., for an "Animal trap."

"1st, I claim the sinking bottom N, constructed as described for closing the trap, when acting in combination with the spring *g*, and bait lever M, substantially as already specified. 2d, I claim the counter balance chamber H, constructed as described, and operating for the purpose of resetting the trap, as already set forth."

No. 25,225. H. K. SYMMES, of Newton, Mass., for an "Improvement in gas retorts."

"I claim the arrangement of the removable flues D, and valves E, in combination with retorts of double length, substantially as and for the purpose described."

No. 25,226. CHAS. TAYLOR, of Little Falls, N. Y., for a "Ticket holder for railroads, &c."

"I claim the eye E, spring clasp C, and spring hook B, in combination with the link D, or its equivalent, for the purpose herein described."

No. 25,227. STEPHEN R. WEEDEN, of Providence, R. I., for an "Improvement in preparation of candlewicks."

"I claim a plaited or braided candlewick *e*, saturated with a solution of acetate of lead, or other substance to aid combustion, and coated with a silicate, as and for the purpose set forth."

No. 25,228. J. W. WETMORE, of Erie, Pa., for an "Improvement in railroad chairs."

"I claim the T lip or jaw (as at *k*. *l*, *m*, or k^{111}, l^{111}, m^{111}) notching the web of the rail as at *e*, *e*, and through these notches, having the bottom of the jaw pass down and riveted or keyed under the base *g*, *h*."

No. 25,229. IRA WISEL, of Newbury, Minnesota, for an "Improvement in water wheels."

"I claim the peculiar form of the buckets in combination with the rest of the wheel."

No. 25,230. F. L. BUEL, of Manchester, Conn., assignor to C. G. Keeney, of same place, for an "Improvement in knitting machines."

"I claim attaching the mechanical device above set forth, to a knitting machine, namely, by the thread guide *b*, lever *c*, *e*, and arm *i*, substantially in the manner and for the purpose as described. 2nd, the arrangement of the lever *k*, connections *m*, *n*, frame *h*, and arm *i*, substantially as described, and for the purpose set forth."

No. 25,231. JONAS HINKLEY, of Clarksfield, O., assignor to himself and Frederick A. Wildman, of same place, for an "Improvement in sewing machines."

"I claim, first, the combination of the looper (H), and receiving spring hook (J), when arranged so as to operate in the manner and for the purpose set forth. Second, the combination of the deflecting hook (G), the looper (H), and the receiving hook (J), essentially as specified. Third, the lifting finger (K), or its equivalent, operating substantially as herein set forth. Fourth, the combination of the lifting finger (K) with the looper (H), and receiving hook (J), substantially as herein described. Fifth, the combination of the lifting finger, the deflecting hook (G), the looper and the receiving hook, arranged and operating substantially as described. Sixth, the combination of the arm (D^5), link (D^6), and lifting bar (D^4), with the vibrating bar (D^3), and feeding hand (D^7), for the purpose described."

No. 25,232. THOS. R. HOPKINS, of Petersburgh, Va., assignor to himself and R. E. Robinson, of same place, for an "Improvement in cam presses."

"I claim operating a press follower, or other part of a machine, which is required to give a gradual pressure by means of a combined agency of two differentially toothed disks D, D^1, which revolve at unequal speeds two sets of reverse acting cams *h*, *g*, and intermediate friction rollers E, or their equivalents, substantially as herein described."

No. 25,233. WM. LINTON, of Baltimore, Md., assignor to John Jones, of same place, for an "Improvement in machines for making clay pipes."

"I claim the two-sized permanent core or mandrel, in combination with the fixed die A and adjustable jaws C, D, constructed, arranged, and operating in the manner described for the purpose specified."

No. 25,234. Edwd. T. Steen, of San Francisco, Cal., assignor to himself and B. S. Nichols, of Sacramento, Cal., for an "Improvement in quartz mills."

"I claim the employment of stampers E, E^1, when the same are operated by means of steam cylinders H, H^1, which communicate by the cross passages e, e^1, the change of steam being effected by valve pistons J, J, operating on a working beam L, and operated by the pistons G, G^1, the whole being arranged and combined substantially in the manner herein described."

No. 25,235. Bernard Lauth, of Pittsburg, Pa., assignor to Jones and Lauth, of same place, for an "Improvement in the manufacture of iron."

"I claim a new article of manufacture made by rolling iron or steel in a cold state for hardening and adding strength to it, without injury to its fibre, and at the same time reducing it in size, as herein set forth."

Re-issues.

Hugh W. Collender, of New York, N. Y., for an "Improvement in billiard table cushions." — Patented 8th December, 1857.—Re-issued 23rd August, 1859.

"I claim composing cushions for billiard tables with a body or back of what is known as the soft compound of vulcanizable india rubber or allied gum, in combination with a facing of india rubber or allied gum, rendered less compressible by fibrous matter, or the equivalent thereof, substantially as described."

C. A. McEvoy, of Richmond, Va., for an "Improvement in railroad station indicators." — Patented 20th November, 1855.—Re-issued 23rd August, 1859.

"I claim presenting a movable sign or symbol to passengers of a R. R. car, so that both sides of said sign shall be visible and utilized as annunciators by passing each sign in turn through an opening of the case by the revolving of the drum to which the said signs are attached."

James Powell, of Cincinnati, Ohio, for an "Improvement in faucets."—Patented 22nd March, 1859.—Re-issued 5th July, 1859; again re-issued 23rd August, 1859.

"I claim, 1st, the valve stem H, formed with projecting flanges J and J^1, when confined to a rectilinear path, and operated by a cam or eccentric which engages with it at two opposite points, in the manner and for the purpose set forth. 2nd, the described arrangement and combination of the slotted head I, i, pivot c, socket E, and cam F, operating in the manner set forth to prevent lateral motion of the valve stem."

Designs.

James Bogle, of West Newton, Mass., assignor to himself and Daniel Bogle, of Dover, N. H., for a "Design for floor oil cloth."

"I claim the ornamental design for floor oil cloths, represented in the accompanying pattern."

James Bogle, of West Newton, Mass., assignor to himself and Daniel Bogle, of Dover, N. H., for a "Design for floor oil cloth."

"I claim the ornamental design for floor oil cloths, represented in the accompanying pattern."

Henry Hebbard, of New York, N. Y., for a "Design for spoon or fork handles."

"I claim the use of the ornamental devices on the obverse and reverse sides of the spoon, as herein-before described, for the purpose of ornamenting the handles of spoons, forks, and other articles of table cuttlery, whether made from silver or other metals."

Francis M. Strong and Thomas Ross, of Brandon, Vt., for a "Design for scales."

"We claim the configuration of the parts herein shown and described, to form a new and original design for the cases of what are known as the union scales."

Additional Improvements.

Moses Bales, of Big Plain, Ohio, for an "Improvement in mole plough."—Patented 15th February, 1859.—Additional Improvement dated 23rd August, 1859.

"I claim the employment of the cap (d) in combination with the mole (B), constructed and arranged substantially as and for the purposes set forth."

L. P. Harris, of Mansfield, Ohio, for an "Improvement in apparatus for evaporating saccharine juices."—Patented 18th January, 1859.—Re-issued 23rd August, 1859.

"I claim the application of partial transverse oblique partitions when applied to evaporating pans for the purpose of preventing a continuous transverse channels, when the said partitions shall be arranged substantially in the manner as herein fully set forth and described."

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B. WOODCROFT.

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THE

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No. 594. TUESDAY, SEPTEMBER 13, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1093. ANGE JUMELAIS, Householder, in the city of Paris, in the empire of France, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An apparatus yielding illimited power, so called 'French movement.'"

1094. And JAMES FERGUSON, of Kilmarnock, in the county of Ayr, North Britain, Tinsmith and Gas Fitter, and JAMES MCGAVENY, of Glasgow, in the county of Lanark, North Britain, Yarn Dresser, have given the like notice in respect of the invention of "Improvements in fasteners for shutters, and for similar uses."

1097. And JOHN BASFORD, of the Brick Yard, Oundle, in the county of Northampton, has given the like notice in respect of the invention of "An improvement in the apparatus used when expressing clay or brick earth through dies."

1102. And CHARLES NUTTALL, of Rochdale, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for grinding wire cards."

1103. And FREDERICK WILLIAM EMERSON, of 110, Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in treating ores to obtain a new metallic substance and its salts, and in the application of such matters, and also certain products of tungsten in dyeing, printing, and painting."

As set forth in their respective petitions, recorded in the said office on the 2nd day of May, 1859.

1114. And EDWARD WATKIN SCALE, of Merthyr Tydfil, in the county of Glamorgan, Gentleman, has given the like notice in respect of the invention of "Improvements in railway signals."

As set forth in his petition, recorded in the said office on the 3rd day of May, 1859.

1128. And EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in the manufacture of sheet iron."—A communication from abroad by David A. Morris, of Pittsburg, Pennsylvania, United States of America.

1131. And HENRY REYNOLDS, of Denmark Hill, in the county of Surrey, Gentleman, has given the like notice in respect of the invention of "Improvements in refining sugar and other saccharine substances."

As set forth in their respective petitions, both recorded in the said office on the 5th day of May, 1859.

1137. And WILLIAM KELLINGLEY, of No. 13, Mason Street, New Cross, Surrey, Carriage Builder, has given the like notice in respect of the invention of "Improvements in the mode of lubricating the journals of the axles of locomotive engines of carriages and machinery."

1140. And SAMUEL WRIGHT, of Sudbury, in the county of Suffolk, Gas Engineer, has given the like notice in respect of the invention of "An improved gas governor or regulator."

As set forth in their respective petitions, both recorded in the said office on the 6th day of May, 1859.

1149. And MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture and construction of locks and fastenings."—A communication from abroad by Joseph Napoleon Rebour, residing at Paris, France.

As set forth in his petition, recorded in the said office on the 7th day of May, 1859.

1157. And JOHN RAMSBOTTOM, of Crawshaw Booth, near Rawtenstall, in the county of Lancaster, Machine Printer, has given the like notice in respect of the invention of "Certain improvements in machinery for printing fabrics."
As set forth in his petition, recorded in the said office on the 9th day of May, 1859.

1170. And MOSES DEFRIES, of Houndsditch, in the city of London, Manufacturer, has given the like notice in respect of the invention of "Improved apparatus for regulating the pressure of gas."

1174. And MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "Improvements in heating and in supplying air, and in the apparatus employed therein, part of which improvements is also applicable to exhausting fluids."—A communication from abroad by Louis Cyrille Bureau, residing at Paris, in the French empire.

1176. And WILLIAM OLAND BOURNE, of the city and state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in the means of and apparatus for separating metals, ores, and other substances of different specific gravities."
As set forth in their respective petitions, all recorded in the said office on the 10th day of May, 1859.

1185. And WILLIAM SPENCE, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in knapsacks and other military equipments."—A communication from abroad by John Rider, of New York, United States.

1188. And JAMES BAGSTER LYALL, of Castle Frome, in the county of Hereford, Gentleman, and FREDERICK WILLIAM CAMPIN, of the Strand, in the county of Middlesex, Patent Agent, have given the like notice in respect of the invention of "Improvements in the saloon omnibus and other omnibuses, the wheels and springs whereof and mode of attaching them being applicable to other carriages."
As set forth in their respective petitions, both recorded in the said office on the 11th day of May, 1859.

1214. And SCHOFIELD CROWTHER SHEARD, Engineer, of Smethwick, in the county of Stafford, has given the like notice in respect of the invention of "Certain improvements in fire-bars, which bars are applicable to all furnaces where great heat and economy of fuel are required."
As set forth in his petition, recorded in the said office on the 16th day of May, 1859.

1223. And JOHN BROWN the younger, of the Rotherham Iron Works, Rotherham, in the county of York, Ironfounder, has given the like notice in respect of the invention of "Improvements in buffers, draw springs, and bearing springs."
As set forth in his petition, recorded in the said office on the 17th day of May, 1859.

1242. And ROBERT WILSON, of Patricroft, near the city of Manchester, Engineer, has given the like notice in respect of the invention of "Improvements in hydraulic machinery."
As set forth in his petition, recorded in the said office on the 20th day of May, 1859.

1257. And WILLIAM HENRY PERKIN, King David Fort, St. George-in-the-East, in the county of Middlesex, and MATTHEW GRAY, of the Dalmonach Print Works, Bonhill, Dumbartonshire, have given the like notice in respect of the invention of "Improvements in mordanting and dyeing fabrics of cotton and other vegetable fibres."
As set forth in their petition, recorded in the said office on the 21st day of May, 1859.

1278. And JAMES CRAIG FISHER, of No. 51, Cathedral Street, Glasgow, Manager of Cook's Patent Composition Company, has given the like notice in respect of the invention of "Improvements in preparing paints and varnishes."
As set forth in his petition, recorded in the said office on the 24th day of May, 1859.

1305. And WILLIAM HENRY NEVILL, of Llanelly, in the county of Carmarthen, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of steel, and wrought iron."
As set forth in his petition, recorded in the said office on the 26th day of May, 1859.

1430. And GEORGE SMITH, of Manor Road, Saint Mary's, Newington, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in hat bands."
As set forth in his petition, recorded in the said office on the 14th day of June, 1859.

1540. And ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved machinery for cutting corks."—A communication from abroad by Edward Conroy, of Boston, in the United States of America.
As set forth in his petition, recorded in the said office on the 28th day of June, 1859.

1567. And BRIDGE STANDEN, of Salford, in the parish of Manchester and county of Lancaster, Chymist, has given the like notice in respect of the invention of "Improvements in the deodorizing and separation of fecal and putrescent organic matters, in the preparation or manufacture therefrom of a portable artificial manure or fertilising compound, and in apparatus to be employed in such preparation or manufacture."
As set forth in his petition, recorded in the said office on the 1st day of July, 1859.

1628. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in moulding or shaping metals by pressure, and in

the machinery or apparatus employed therein."—A communication from abroad by Levi Dodge, of the United States of America.

As set forth in his petition, recorded in the said office on the 8th day of July, 1859.

1768. And Anton Bruno Seithen, of No. 6, Alpha Place, Caledonian Road, London, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in cases or boxes, and in casings, hampers, baskets, and wrappers for holding bottles, jars, and other articles."

1770. And Henry Justinian Newcome, of Shenley, near Barnet, in the county of Herts, has given the like notice in respect of the invention of "An apparatus for heating or warming buildings."

As set forth in their respective petitions, both recorded in the said office on the 30th day of July, 1859.

1812. And William Richard Drake, of No. 46, Parliament Street, Westminster, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An apparatus for conducting electricity in the sea, and for telegraphing and sounding in deep water."—A communication from abroad by Emile Schneider, of Ecole de Droit, Saint Petersburgh, in the empire of Russia.

As set forth in his petition, recorded in the said office on the 6th day of August, 1859.

1848. And Joseph Waite, of Cheltenham, in the county of Gloucester, Chemist, has given the like notice in respect of the invention of "Improvements in making infusions for pharmaceutical purposes, which improvements are also applicable to other purposes of a similar nature."

As set forth in his petition, recorded in the said office on the 9th day of August, 1859.

1896. And Septimus Beardmore, of No. 27, Albion Street, Hyde Park, London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in electric batteries."

As set forth in his petition, recorded in the said office on the 17th day of August, 1859.

1915. And William Aristides Vérel, of Macduff, in the county of Banff, Merchant, has given the like notice in respect of the invention of "Improvements in the preparation of bones for manure."

1919. And the Honorable William Talbot, of the Army and Navy Club, Pall Mall, in the county of Middlesex, has given the like notice in respect of the invention of "An improved cigar lighter."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of August, 1859.

1965. And David Todd, of Bridge-of-Weir, in the county of Renfrew, North Britain, Mill Manager, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for carding and treating or preparing fibrous materials."

As set forth in his petition, recorded in the said office on the 29th day of August, 1859.

2032. And John James Sieber, of 5, Baring Street, New North Road, London, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in power looms."—A communication from Henry Honegger, of Thiengen, Grand Duchy of Baden.

As set forth in his petition, recorded in the said office on the 6th day of September, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Notices of Application for leave to enter a Disclaimer, &c.

In the matter of a Patent granted to Amory Fairbanks Sherman, of the city of Roxbury, in the county of Norfolk, in the state of Massachusetts, in the United States of America, but lately residing in Liverpool, in the county of Lancaster, Civil Engineer, for "Improvements in machinery for the manufacture of ropes, stands for ropes, and for other purposes," bearing date the 21st day of April, 1857, No. 1119.

Notice is hereby given, that Joseph Harger, of Oxton, in the county of Chester, Gentleman (assignee of the said Letters Patent, by virtue of an indenture bearing date the 27th day of September, 1858, and which deed was duly registered in the Great Seal Patent Office on the 14th day of October, 1858), has applied by petition to Her Majesty's Commissioners of Patents for Inventions, for leave to enter a Disclaimer and Memorandum of Alteration of certain parts of the Specification of the said Letters Patent.—Dated this 2nd day of September, 1859.

William Walker,
Agent for the Petitioner,
No. 44, Castle Street,
Liverpool.

In the matter of a Patent granted to Amory Fairbanks Sherman, of the city of Roxbury, in the county of Norfolk, in the state of Massachusetts, in the United States of America, but lately residing in Liverpool, in the county of Lancaster, Civil Engineer, for "Improvements in machinery for breaking, hatchelling, roving, spinning, and tarring hemp, flax, manilla, or any fibrous material or materials," bearing date the 6th day of June, 1857, No. 1598.

Notice is hereby given that Joseph Harger, of Oxton, in the county of Chester, Gentleman (assignee of the said Letters Patent, by virtue of an indenture bearing date the 27th day of September, 1858, and

which deed was duly registered in the Great Seal Patent Office on the 14th day of October, 1858), has applied by petition to Her Majesty's Commissioners of Patents for Inventions, for leave to enter a Disclaimer and Memorandum of Alteration of certain parts of the Specification of the said Letters Patent. —Dated this 2nd day of September, 1859.

WILLIAM WALKER,
Agent for the Petitioner,
No. 44, Castle Street,
Liverpool.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 10th September, 1859, inclusive.*)

8th September.

2089. JOHN FOWLER, junior, of Havering, in the county of Essex, for an invention of "Improvements in machinery or apparatus for ploughing and tilling land by steam."—Dated 8th September, 1856.

2113. JOHN TAYLOR, of Spring Grove, Hounslow, in the county of Middlesex, for an invention of "An improvement in building walls."—Dated 10th September, 1856.

2129. ALEXANDER CHAPLIN, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in ships or vessels." —Dated 11th September, 1856.

2149. CHRISTOPHER HILL, of the Great Western Railway, Chippenham Station, for an invention of "Improvements in the manufacture of lubricating matters."—Dated 13th September, 1856.

10th September.

2140. JOHN ELLIOTT, of Southampton, in the county of Hants, Architect and Civil Engineer, for an invention of "An improved apparatus for containing and supplying water, gas, and other fluids, applicable also as a fluid meter."—Dated 12th September, 1856.

2144. RICHARD PEYTON, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "An improvement or improvements in the manufacture of metallic bedsteads and other articles for sitting, lying, and reclining upon."— Dated 13th September, 1856.

2150. SAMUEL CUNLIFFE LISTER, of Manningham, near Bradford, York, for an invention of "Improvements in preparing and spinning cotton, flax, and similar fibres."—Dated 13th September, 1856.

2165. GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey, for an invention of "Improvements in power looms for weaving wire cloth."—A communication.—Dated 16th September, 1856

Extracts from the Report to Parliament of the Commissioners of Patents for the Year 1858.

THE Commissioners of Patents appointed under the Patent Law Amendment Act, 1852 (15 & 16 Vict. c. 83.), in compliance with the terms of the third section of that Act, make the following report of proceedings under and in pursuance of the same for the year 1858, in continuance of their report of proceedings for 1857.

The number of applications for provisional protection recorded within the year 1858 was 3,007; the number of Patents passed thereon was 1,954; the number of Specifications filed in pursuance thereof was 1,880; the number of applications lapsed or forfeited, the applicants having neglected to proceed for their Patents within the six months of provisional protection, was 1,047.

The Act 16 Vict. c. 5. enacts that all Letters Patent for invention to be granted under the provisions of the Patent Law Amendment Act, 1852, shall be made subject to the condition that the same shall be void at the expiration of three years and seven years respectively from the date thereof, unless there be paid, before the expiration of the said three years and seven years respectively, the Stamp duties in the schedule thereunto annexed, viz., 50*l.* at the expiration of the third year, and 100*l.* at the expiration of the seventh year.

Two thousand and forty-four Patents bear date between the 1st July 1855 and on the 30th June 1856; the additional Stamp duty of 50*l.* has been paid on 568 of that number; and 1,476 have become void by reason of nonpayment.

All the provisional, complete, and final Specifications filed in the Office upon the Patents granted under the Act have been printed and published in continuation, with lithographic outline copies of the drawings accompanying the same, and within three weeks of the respective dates of filing, according to the provisions of the Act 16 & 17 Vict. c. 115.

The provisional Specifications filed in the Office and lapsed and forfeited, have also been printed and published in continuation.

Printed certified copies of the Specifications filed in the office, as also certified copies of Patents, and of the Record Book of Assignments of Patents and Licences, with copies of such assignments and licences, have been sent, in continuation, to the Office of the Director of Chancery in Edinburgh, and the Enrolment Office of the Court of Chancery in Dublin, pursuant to the Act of 1852 and the Act of 16 & 17 Vict. c. 115.

The work of printing the Specifications of Patents under the old law, 12,977 in number, and dating from 1711 to 1852, having been completed, the Commissioners of Patents have directed short abstracts or abridgments of Specifications, grouped under the different heads of invention, to be prepared and published; for example, abridgments of the Specifications of Patents relating to the propulsion of vessels, commencing in the year 1618 and ending 1857, comprising nearly 1,000 inventions, have been published in three parts, making one small volume.

Abridgments relating to the following subjects of invention have also been published.—[*See last page of this Journal.*]

Other series are in the press, and it is intended to publish at the rate of six or eight series in each year, completing the work in eight or ten years.

These abridgments are sold at prices a little above the cost of printing and paper.

The following REPORT of the Commissioners of Patents on the subject of the building of a Patent Office and a Public Library has been transmitted to Her Majesty's Treasury.

TO THE LORDS COMMISSIONERS OF HER MAJESTY'S TREASURY.

The Right Honourable Frederic Lord Chelmsford, Lord High Chancellor of Great Britain, The Right Honourable Sir John Romilly, Master of the Rolls, Sir FitzRoy Kelly, Her Majesty's Attorney General, and Sir Hugh M'Calmont Cairns, Her Majesty's Solicitor-General, being four of the Commissioners of Patents for Invention under the said Act, report as follows:—

The 4th section of the said Act enacts, that "it "shall be lawful for the Commissioners of Her "Majesty's Treasury to provide and appoint from "time to time proper places or buildings for an "office or offices for the purposes of the said Act."

In pursuance of the requisition of the Lords Commissioners of Her Majesty's Treasury, dated in 1853, the Commissioners of Her Majesty's Board of Works provided certain offices for the Commissioners of Patents, being the ground-floor rooms of the Masters' offices in Southampton Buildings, Chancery Lane, theretofore occupied by Masters in Chancery, abolished under the Act 15 & 16 Vict. c. 80.; and an annual rent of 490*l.* is now paid out of the Fee Fund of the Patent Office to the Suitors' Fund of the Court of Chancery, for the hire of the same.

This arrangement was not considered to be permanent; no lease has been granted, and as these offices are now required for the occupation of the registrars and other officers of the Court of Chancery, due notice has been given to the Commissioners of Patents, requiring them to give up possession so soon as other suitable offices can be procured.

These offices were in 1853 sufficient in number and accommodation for the ordinary business of the office.

In the year 1855 the Commissioners of Patents established a free public library within their office, containing works of science in all languages, the publications of the Commissioners, and the works upon patented and other inventions published in the British colonies and in foreign countries.

This library has greatly increased and continues to increase, partly by purchases, but in a great measure by gifts and loans of valuable and useful books. It was resorted to at the first opening by inventors, engineers, and mechanics, as well as by barristers, solicitors, and agents engaged in patent business; it has become a collection of great interest and importance, and the number of readers has gradually so much increased that at this time convenient standing room cannot be found in the two small rooms within the office which can be appropriated to the library. It is the only library within the United Kingdom in which the public have access not only to the records of the patents and inventions of this country, but also to official and other documents relating to inventions in foreign countries, and this without payment of any fee.

A largely increased accommodation is urgently required.

No suitable building can be found in the immediate neighbourhood of Southampton Buildings, either to be rented or for purchase.

The new offices to be provided must be fire-proof, for the preservation of the original Specifications and other records of the office; the offices now occupied are fire-proof throughout.

The Commissioners of Patents are in possession of a collection of very valuable and interesting models of patented machines and implements, as also of portraits of inventors, many of them gifts, and others lent by the owners for exhibition. They are now exhibited daily, and gratuitously, in a portion of the Museum at Kensington assigned to the Commissioners of Patents for that purpose by the Lords of the Committee of Privy Council for Trade.

A museum of this nature necessarily increases, and the number of models now exhibited may be considered as forming only the foundation of a great national museum.

The great work of printing the old Specifications of Patents, with the drawings attached thereto, inrolled in Chancery under the old law, dating from 1623 to 1852, and 12,977 in number, was commenced in September 1853, and fully completed in July last (1858). All have been fully indexed in series and subjects, and the indexes printed and published. These prints of Specifications form about 900 volumes (450 imperial octavo volumes of drawings, and the like number of imperial octavo volumes of letter press). The indexes form seven imperial octavo volumes.

The cost of these valuable works has necessarily been great, amounting to 92,000*l.*

Notwithstanding this great outlay, the balance sheet of income and expenditure for the year 1857, prepared for the annual report of the Commissioners, and laid before Parliament, shows a surplus income from the commencement of the Act, 1st October, 1852, to the end of 1857, of 6,000*l.*

The balance sheet of income and expenditure for the year 1858, prepared, and shortly to be laid before Parliament, shows a surplus on the year of 5,900*l.*, thereby increasing the total surplus to 11,900*l.*

The work of printing the whole Specifications being completed, as above stated, the expenditure on that head ceases altogether, and, consequently, the surplus income of the current year (1859) is estimated at 21,600*l.*; adding this sum to the present available surplus of 11,900*l.*, and leaving a margin of 3,500*l.*, 30,000*l.* may be safely estimated as the sum available for building purposes at the end of the current year 1859.

The balance sheet of income and expenditure for the current year, 1859, is estimated as follows:—

Receipts.	£	s.	d.
Stamp Duties -	86,000	0	0
Sale of printed Specifications -	1,300	0	0
	£87,300	0	0

Payments.	£	s.	d.
Fees to the law officers - -	8,700	0	0
Ditto their clerks -	800	0	0
Salaries of officers and clerks - -	5,600	0	0
Compensations -	4,600	0	0
Current and incidental expenses -	7,500	0	0
Cost of stationery supplied to the Patent Office by Her Majesty's Stationery Office	700	0	0
Cost of purchase of books for library, and binding -	500	0	0
Rent of offices -	500	0	0
Letter-press printing, lithographer's bills for drawings, and estimated cost of paper supplied to the printer and lithographer by Her Majesty's Stationery Office	17,500	0	0
Expenses in respect of the Museum at South Kensington, and clerks' salaries for ditto	3,000	0	0
Revenue Stamp Duties - -	16,300	0	0
Balance or estimated Surplus Income of the current year 1859 -	21,600	0	0
	£87,300	0	0

The Act of 1853 (16 Vict. c. 5.) converted all the fees imposed by the Act of 1852 into Stamp duties, thereby passing the whole income of the office to the Consolidated Fund.

The expenditure of the office is estimated and voted annually by Parliament.

There is no appearance of diminution in the number of applications for Patents, and they may be safety estimated to continue for future years at 3,000 in each year.

This number will produce 86,000*l.* in Stamp duties, and adding thereto 1,300*l.* for the average annual proceeds of sales of printed Specifications, the future annual *gross* income may be taken at 87,300*l.* The gross income is, however, liable to a deduction of 16,300*l.* on account of *Revenue* Stamp duties, leaving the real available future income of the Patent office at 70,000*l.* per annum, or thereabouts.

The Patent Law Amendment Act, 1852, (15 & 16 Vict. c. 83.,) imposed certain *Revenue* Stamp duties upon Patents. These duties have hitherto produced 15,300*l.* per annum, and that sum has been charged against the office in the annual balance sheet of income and expenditure.

These duties are estimated in the balance sheet above set forth for the current year 1859 to produce 16,300*l.* or thereabouts.

The work of printing the old Specifications being completed, as above stated, the yearly future cost of the current Specifications, abstracts of Specifications, journals, indexes, &c., in letter-press printing, lithographic printing, and paper, will not exceed 17,500*l.* per annum, as contrasted with the average yearly expenditure on those three heads of 39,375*l.* within the years 1856-7-8.

The Commissioners of Patents are of opinion that it is not expedient, for the present at least, to propose to Parliament a reduction of the scale of Stamp Duty fees imposed by the Act of 1852.

They are of opinion that the fees paid upon the passing of a Patent are not too heavy; the large number of Applications (3,000 in each year) accounting for the large amount of income. Any material reduction in the amount of fees would undoubtedly tend to increase the number of useless and speculative Patents; in many instances taken merely for advertising purposes.

The *fee* Stamp duties and the *Revenue* Stamp duties are as follows:

	Fee Stamp Duties.	Revenue Stamp Duties.
	£ s. d.	£ s. d.
Within the first six months from the Petition for Provisional Protection to the filing of the Specification - - -	20 0 0	5 0 0
On the Patent at the expiration of the third year -	40 0 0	10 0 0
On the Patent at the expiration of the seventh year (The Patent is granted for fourteen years.)	80 0 0	20 0 0

There are 3,000 petitions for provisional protection presented in each year, or thereabouts. Of this number, 1,950 reach the Patent, and 550 Patents pay the 50*l.* additional Stamp duty required at the expiration of the third year; 1,450 Patents, or nearly three fourths of the whole, thereby becoming void. Probably not more than 100 of the surviving 550 will pay the 100*l.* additional Stamp duty required at the end of the seventh year.

Considering the beneficial results of the additional payment of 50*l.* in sifting useless Patents, the Commissioners are of opinion that it is not expedient to reduce the Amount, for the present at least, and so long as the surplus can be expended for the benefit of patentees and that Portion of the community which is principally interested in and connected with the practical application to public purposes of discoveries and improvements in science and art.

They are of opinion that the surplus income, calculated as before stated to amount to 30,000*l.* at the end of the current year 1859, and to increase in each succeeding year at the rate of 20,000*l.* per annum, may be beneficially applied in the purchase of ground in a central situation, and in the erection thereon of a sufficiently spacious fireproof building for the Patent offices and public free library attached thereto; and that the surplus fund may also be beneficially applied in the purchase of ground and the erection thereon of a permanent and spacious building for the Patent Office Museum, sufficient ground being taken for the extension of the building from time to time as may be required.

This is the more necessary inasmuch as models of the most interesting and valuable description lie scattered over the kingdom, in many instances constructed at a great expense, for legal and other purposes, for which the owners have no present use, and many of which occupy a space inconvenient to them. These models, or many of them, would, as the Commissioners confidently expect and believe, be presented or intrusted to them for exhibition in such museum, provided the public are allowed free access to it at all reasonable times.

The Patent office is the place of constant daily and hourly resort of patentees, agents, and all others concerned in obtaining Patents, and in ascertaining what discoveries and improvements have already been made. It should be conveniently placed with reference to the courts of law, the Government offices, and the offices of the attorney and solicitor general.

With respect, however, to the proposed new museum, the Commissioners of Patents are of opinion that the same reasons for a central position do not exist, and that it might be placed upon any spot easily accessible to the inhabitants of the metropolis, and that the place in which the models are now exhibited would be an eligible position, sufficient ground being there purchased or assigned for the purpose. A large space will be required for the building in the first instance, and a larger extent provided for its future extension; and sufficient ground cannot be found in the centre of the town for a building of the extent required, unless at an enormous cost.

The Commissioners are anxious to establish a library in conjunction with the museum, showing the Patents already granted by Foreign Governments, and those which from time to time are so granted; and from the facilities afforded by Foreign Governments the Commissioners have every reason to believe that this may be accomplished without difficulty.

These are the two objects which the Commissioners of Patents present to the consideration of the Lords Commissioners of Her Majesty's Treasury, and for which they are desirous to obtain their sanction:—

1st, the erection of a museum for the preservation and exhibition of the models, as above mentioned.

2d. The erection of suitable offices.

The latter of these objects ought properly to precede the former; but if the offices they at present hold in Southampton Buildings can be retained for the present, this object may be postponed till a convenient site can be obtained.

For the accomplishment of the former object a very favourable opportunity at present occurs, as the Lords of the Privy Council constituting the Committee of Trade are (as the Commissioners are informed) willing to allot to them a portion of the land recently purchased at South Kensington, sufficient in extent both for the purpose of the erection of the building now required, and to provide for the future extension of the museum.

The Commissioners of Patents therefore request that the Lords Commissioners of Her Majesty's Treasury will be pleased to sanction the application of a sufficient portion of the surplus now derived from the fees paid on Patents for the purpose of accomplishing the objects above mentioned, and that with this view their Lordships will be pleased to give the necessary directions to Her Majesty's Board of Works to obtain a proper site for the proposed new Patent Office and Library, to be selected with the approbation of the Commissioners of Patents and with the sanction of the Lords Commissioners of Her Majesty's Treasury, and also to prepare the necessary plans, elevations, and specifications for this purpose, also to be submitted to the Commissioners of Patents for their approval, and to make contracts for the building of the same when approved.

If their Lordships consent to these proposals, the Commissioners of Patents have to request that a sufficient sum for the purpose, so far as the same may be required for the year 1858-9, may be included in the estimate to be laid before Parliament in the present session for Patent Office expenses.

Rules and Regulations.

Clerks and Officers.

No additional Rules or Regulations were made under the Act, or additional clerks appointed within the year 1858.

The Commissioners have thought it expedient to lay before Parliament, in the Schedule to this Report, an account of Stamp duties in lieu of fees received under the provisions of the Act, with a balance sheet of their receipts and expenditure.

Schedule.

An Account of Stamp Duties received under the Act to substitute Stamp Duties for Fees (16 Vict. c. 5.), for the year 1858.

	£	s.	d.
3,007 petitions for grant of Letters Patent, at 5*l.* each	15,035	0	0
2,174 notices of intention to proceed with application, at 5*l.* each	10,870	0	0
50 notices of objection to the grant of Letters Patent, at 2*l.* each	100	0	0
1,954 warrants for Patents, at 5*l.* each	9,770	0	0
1,954 Patents sealed, at 5*l.* each	9,770	0	0
1,880 final Specifications filed at 5*l.* each	9,400	0	0
51 complete Specifications filed at 5*l.* each	255	0	0
553 entries of assignments of Patents and licences, at 5*s.* each	138	5	0
360 searches and inspections, at 1*s.* each	18	0	0
13,011 folios of office copies of documents, at 2*d.* per folio	108	8	6
558 Patents upon which the progressive Stamp duty of 50*l.* has been paid	27,900	0	0
8 duplicate Patents issued in lieu of original Patents lost or destroyed, 5*l.* each	40	0	0
28 petitions on application for disclaimers, 5*l.* each	140	0	0
16 caveats against disclaimers, at 2*l.* each	32	0	0
1 Patent granted upon Her Majesty's Order in Council under the 40th section of the Act (1852), being a prolongation of a Patent granted previous to the Act	5	0	0
	£83,581	13	6

Balance Sheet of Income and Expenditure for the Year 1858.

Receipts.	£	s.	d.	Payments.	£	s.	£.
In Stamp Duties in lieu of fees	83,581	13	6	Fees to the law officers of England	8,235	3	0
By sale of prints of Specifications, indexes, &c.	1,371	2	0	Their clerks	784	5	0
Surplus income on balance of accounts from the 1st October 1852 to the end of the year 1857 (Report to Parliament for 1857)	6,005	5	0	Salaries of the officers and clerks in the Patent Office	4,668	15	0
				Compensations	4,584	0	0
				Current and incidental expenses in the Patent Office	8,742	6	8
				Cost of stationery supplied by Her Majesty's Stationery Office, books for the Free Library, and binding	1,670	0	3
				Rent of offices	490	0	0
				Messrs. Eyre and Spottiswoode for printing Specifications of Patents, indexes, &c., and lithographer's bills for drawings accompanying Specifications	25,011	8	1
				Cost of paper supplied to the printer and lithographer by Her Majesty's Stationery Office	5,644	13	2
				Cost of coals and other fuel supplied to the Patent Office by Her Majesty's Office of Works	56	7	0
				Expenses incurred in respect of the Museum at South Kensington	1,362	6	2
				Salaries of clerks for ditto	575	0	0
				* *Revenue* Stamp duty account as below	15,350	0	0
				Surplus Income	13,819	16	8
	£90,958	1	0		£90,958	1	0

* The Act of 1852 in lieu of the old duties upon Patents imposed a Revenue Stamp duty of 5*l.* upon the warrant of the law officer, 10*l.* upon the certificate of payment of the progressive fee of 40*l.* at the expiration of the third year, and 20*l.* upon the certificate of payment of the fee of 80*l.* at the expiration of the seventh year of the Patent.

The Act of 1853 (16 Vict. c. 5.) converted all the fees imposed by the Act of 1852 into Stamp duties.

The *Revenue* Stamp duty account for the year 1858 is as follows:—

	£	s.	d.
1,954 warrants of the law officers for Patents, at 5*l.* each	9,770	0	0
558 Patents on which the progressive duty of 50*l.* has been paid at the end of the third year from their respective dates (10*l.* being *Revenue* Stamp duty and 40*l.* fee stamp duty), 558 at 10*l.* each	5,580	0	0
	£15,350	0	0

Dated 20th July, 1859.

List of Specifications published during the week ending 9th September, 1859.

No.	Price.	Subject-Matter.
		1849 (*Disclaimer*).
12,603	5*d.*	Machinery for preparing, combing, and hackling fibrous materials.
		1852 (*Disclaimer*).
14,256	4*d.*	Machinery for spinning, weaving, and selving.
		1859.
148	6*d.*	Machinery for spinning.
254	3*d.*	Machinery for the manufacture of envelopes and paper bags.
282	3*d.*	Furnaces or fire-places.
304	10*d.*	Power looms.
305	7*d.*	Leashing yarn or thread in the hank, and winding off the same.
306	3*d.*	Food for cattle.
307	6*d.*	Funeral carriage.
308	3*d.*	Hats.
309	6*d.*	Metallic pistons.
310	4*d.*	Manufacture of paper and artificial parchment, &c.
311	9*d.*	Machinery for washing rags and other materials for the manufacture of paper.
312	10*d.*	Locomotive steam engines.
313	3*d.*	Apparatus for manufacturing manure.
314	1*s.* 4*d.*	Looms for weaving.
315	3*d.*	Preparation of iron bars for sheet iron structures, &c.
316	3*d.*	Printing telegraph.
317	10*d.*	Locomotive steam engines, &c.
318	3*d.*	Raising liquids, and compressing and forcing fluids.
319	3*d.*	Envelopes, affixing postage stamps, &c.
320	6*d.*	Cooling worts and beer.
321	3*d.*	Shirts.
322	7*d.*	Registering the withdrawal of liquids from vessels.
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1997. And to ROBERT HANHAM COLLYER, of 8, Alpha Road, Regent's Park, in the county of Middlesex, Doctor of Medicine and Philosophy, for the invention of "Improvements in preparing materials for the manufacture of paper."

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1999. To JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for the invention of "Improvements in the manufacture or production of boots and shoes, in the machinery, apparatus, and means employed in such manufacture."

2001. To WILLIAM BROWN the younger, of the town and county of Selkirk, North Britain, Manufacturer, and SIMEON BATHGATE, of the same place, Engineer, for the invention of "Improvements in machinery or apparatus for grinding or sharpening the card teeth of carding engines for carding fibrous materials."

2003. To WILLIAM FEARN, of the British Pail Company, of Leeds, in the county of York, for the invention of "An improved construction of buoys."

2005. To STRANGMAN DAVIS GOFF, HENRY DAVIS, SAMUEL STRANGMAN, and EDWARD STRANGMAN, of the firm of Davis, Strangman, and Co., Waterford, Ireland, Brewers, for the invention of "An improved method of, and apparatus for, drying malt, corn, and other articles."

2007. And to EDWIN BUTTON, of Smith's Terrace, Chelsea, in the county of Middlesex, Engraver, for the invention of "Improved apparatus for raising sunken vessels."

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2011. To JOSEPH FRIOU, of No. 74, Newman Street, Oxford Street, in the county of Middlesex, Chemist, for the invention of "Detaching instantly the locomotives from railway carriages, and also for detaching instantly the harness from horses that run away when attached to any carriage."

2013. To HENRY ROBERT LOUIS SCHRAMM, Engineer, residing at Breslau, kingdom of Prussia, for the invention of "A new process for pressing and separating simultaneously the fibres and pellicles contained in the constituant matters of the beet-root, sugar, beer, grains, alcohol, potatoes, beets, and other similar substances."

2015. To WALTER NEILSON, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in steam hammers."

2017. To JAMES CHARLES NIXON, of the firm of Messrs. Danks and Nixon, of the town and county of the town of Nottingham, Furnishing Ironmongers and Domestic Range and Closet Manufacturers, for the invention of "Improvements in kitchen ranges, with combined steamer and hot closets, for cooking, warming, drying, or other purposes."

2019. To CHRISTIAN SCHIELE, of North Moor Foundry, Oldham, in the county of Lancaster, for the invention of "Improvements in weighing machines."

2021. And to BERNARD LAUTH, late of Pittsburg, Pennsylvania, but now residing at Manchester, in

the county of Lancaster, Mechanician, for the invention of "Improvements in the manufacture of rollers or cylinders for calico printers, and of tubes of copper and brass, or mixtures of those metals."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of September, 1859.

2023. To WILLIAM BUSH, of Dulwich, in the county of Surrey, Chemist, for the invention of "Manufacturing granulated seidleitz powder."

2025. To JOHN WILLIAM PARKER FIELD, of No. 233, High Holborn, in the county of Middlesex, Gun Manufacturer, for the invention of "Improvements in breech loading fire arms."

2027. To VICTOR TOMELL, of No. 294, King's Road, Chelsea, in the county of Middlesex, for the invention of "Improvements in the manufacture of yeast."

2029. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in weighing machines."—A communication from abroad by John Howe, junior, and Frank E. Howe, both of New York, and Francis Miles Strong and Thomas Ross, both of Brandon, county of Rutland, and state of Vermont, United States.

On their several petitions, recorded in the Office of the Commissioners on the 5th day of September, 1859.

2031. To RICHARD KELLY GELDARD, of Plymouth, in the county of Devon, Pharmaceutical Chemist, for the invention of "Improvements in the method of, and apparatus for making pharmaceutical or other infusions."

2033. To FRANÇOIS JULES MANCEAUX, of Paris, in the empire of France, Manufacturer, for the invention of "Improvements in cartridges."

2035. And to JAMES STEWART, of No. 66, Tottenham Court Road, in the county of Middlesex, for the invention of "Improvements in piano-forte action."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of September, 1859.

2037. To JAMES JOHN LYONS, of London, in the county of Middlesex, Engineer, for the invention of "Improvements in the manufacture of sugar."

2039. To GEORGE LAWRENCE, of York Road, Battersea, in the county of Surrey, Gentleman, for the invention of "Improvements in the construction of wheeled vehicles."

2041. To WILLIAM JEAN JULES VARILLAT, of Rouen, in the empire of France, Manufacturer, for the invention of "An apparatus indicating the level of water in steam caldrons or boilers."

2043. To JAMES PRESCOTT JOULE, of Manchester, in the county of Lancaster, Fellow of the Royal Society, for the invention of "Improvements in apparatus for refrigerating and condensing steam or other vapours, which said improvements are applicable to refrigerating or heating liquids."

2045. To ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in the manufacture of ladies' hooped skirts."—A communication from abroad by William Sparks Thomson, of New York, in the United States of America.

2947. And to EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agent, No. 123, Chancery Lane, London, W. C., for the invention of "Improvements in machinery or apparatus for forging metals."—A communication from abroad by Ernest Dams, of 7, Rue des Moulins, Paris, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 7th day of September, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

2072. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, praying for Letters Patent for the invention of "An improved arrangement of piston packing, principally applicable to hydraulic apparatus,"—a communication from Casimer and Celestin Dabbine, residing at Verduno, Sardinian States,—was deposited and recorded in the Office of the Commissioners on the 12th day of September, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And Notice is also hereby given, that the petition of

2073. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, praying for Letters Patent for the invention of "Improvements in the construction of hydraulic pumps,"—a communication from Louis Laurent Bequemie, residing in Paris,—was deposited and recorded in the Office of the Commissioners on the 12th day September, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

15th September, 1859.

660. ISAIAH ASH, of Number 17, Great Bridport Street, Blandford Square, in the county of Middlesex, Locksmith, for an invention of "Improvements in the construction of locks and latches."—Dated 16th March, 1859.

664. WILLIAM AVERY, of Birmingham, in the county of Warwick, Engineer, for an invention of "Improvements in machinery for the manufacture of screws."—Dated 16th March, 1859.

671. Thomas William Miller, of Her Majesty's Dockyard, Portsmouth, for an invention of "Improvements in blocking or securing ships and other vessels whilst being removed, examined, or repaired."—Dated 16th March, 1859.

672. Coleman Defries, of the firm of Jonas Defries and Sons, Houndsditch, for an invention of "Improvements in lamps."—Dated 17th March, 1859.

676. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Treating barley so as to obtain new alimentary substances therefrom."—A communication from Pierre Marmay, residing at Riom, France.—Dated 17th March, 1859.

678. Andrew George Hutchinson, of West Derby, in the county of Lancaster, Builder, for an invention of "Improvements for counteracting damp in buildings."—Dated 17th March, 1859.

679. Ph. Larochette Ainé, of Paris, in the empire of France, for an invention of "Improvements in machinery for brewing."—Dated 17th March, 1859.

681. Arthur Warner, of 31, Threadneedle Street, in the city of London, and William Henry Tooth, of Sumner Street, Southwark, in the county of Surrey, for an invention of "Improvements in the manufacture of iron."—Dated 17th March, 1859.

684. William Bowers Taylor, of Ballymena, in the county of Antrim, in Ireland, Gentleman, for an invention of "Certain improvements in or applicable to looms for weaving."—Dated 18th March, 1859.

90. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "A new or improved metallic alloy."—Dated 18th March, 1859.

691. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement in the manufacture of cast steel."—Dated 18th March, 1859.

692. Albert Louis Thirion, Pastor of Asche en Refail, Province de Namur, kingdom of Belgium, for an invention of "Improvements in water, wind, steam, and hand mills."—Dated 18th March, 1859.

693. Charles Lambert, of Sunk Island, in the county of York, Farmer, for an invention of "Improvements in corn and seed drills."—Dated 18th March, 1859.

694. John Wallace Duncan, of Grove End Road, St. John's Wood, and James Eglington Anderson Gwynne, of Hanover Terrace, Regent's Park, both in the county of Middlesex, Gentleman, for an invention of "Improvements in or connected with apparatus for the generation, application, and condensation of steam, part of which apparatus or arrangements is applicable to other purposes."—Dated 18th March, 1859.

696. William Bruce Gingell, of 37, Corn Street, in the city of Bristol, Architect, for an invention of "Improvements in the form of metal bars used for the stiles, rails, heads, and sills of window sashes, casements, and other lights."—Dated 19th March, 1859.

700. John Walter Hart, of 60, St. Mary-Axe, in the city of London, Gentleman, for an invention of "An apparatus for the destruction of flies and other insects."—A communication from abroad, by Frederick Barnett, residing at Paris, in the empire of France.—Dated 19th March, 1859.

702. James Howden and Alexander Morton, of Glasgow, in the county of Lanark, North Britain, Engineers, for an invention of "Improvements in apparatus for obtaining and regulating motive power."—Dated 19th March, 1859.

703. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement or improvements in the manufacture of cast steel."—Dated 19th March, 1859.

707. William Haggett, of Sherborne, in the county of Dorset, Architect and Surveyor, for an invention of an "Improved method of treating metals and other materials to increase their strength."—Dated 21st March, 1859.

712. Joseph Roberts, of Staley Bridge, in the county of Chester, Engineer, for an invention of "Improvements in packings for pistons."—Dated 21st March, 1859.

713. Sigismond Leoni, of Saint Paul Street, in the county of Middlesex, Manufacturer, for an invention of "Improvements in the manufacture of useful and ornamental articles, surfaces, and works, parts of articles and parts of machinery or apparatus from talc and other silicates of magnesia, and from the same combined with other substances."—Dated 21st March, 1859.

714. Joseph Bickerton, of Oldham, in the county of Lancaster, Machinist, for an invention of "Improvements in opening and securing window sashes."—Dated 21st March, 1859.

717. William Rhodes, of Wade Street, Thornton Road, Bradford, in the county of York, Whitesmith, for an invention of "Certain improvements in fire-proof safes."—Dated 21st March, 1859.

727. Daniel Lancaster Banks, of Kennington, in the county of Surrey, Engineer, for an invention of "Improvements in suspension rail or road ways, and in machinery or apparatus connected therewith."—Dated 22nd March, 1859.

736. William Adamson, of the Patent Slip, Wellington Quay, Newcastle-on-Tyne, for an invention of "Improvements in apparatus for propelling vessels."—Dated 23rd March, 1859.

790. Walter Brown, of Bolton le Moors, in the county of Lancaster, Clog Manufacturer, for an invention of "Improvements in manufacturing clog soles, and in the machinery employed therein."—Dated 30th March, 1859.

792. John Wilson Hadwen, of Kebroyd Mills, in the parish of Halifax, and West Riding of the county of York, Cotton Spinner, for an invention of "A new art or manufacture for converting certain kinds of silk waste into yarns or threads."—Dated 30th March, 1859.

795. Thomas Downs Shipman, of Toronto Canada West, North America, for an invention of "Improvements in apparatus for stamping and printing."—Partly a communication from abroad by Mr. Kendell, of Canada aforesaid.—Dated 30th March, 1859.

802. John Lacy, Cotton Spinner, and Samuel Simpson and Henry Smith, Managers, all of Travis Holme Mill, Walsden, near Todmorden, in the county of Lancaster, for an invention of "Certain improvements in machinery for preparing and spinning cotton and other fibrous materials."—Dated 31st March, 1859.

805. Thomas Ivory, of Edinburgh, Advocate, for an invention of "Improvements in rotary engines."—Dated 31st March, 1859.

806. Thomas Ivory, of Edinburgh, Advocate, for an invention of "Improvements in steam boilers and furnaces for the same."—Dated 31st March, 1859.

857. Nicolas Libotte, Mechanician, of 33, Boulevard St. Martin, Paris (empire of France), for an invention of "An improved safety apparatus to be applied to cages in the drawing of coals."—Dated 5th April, 1859.

942. William Sinnock, of Brompton, in the county of Kent, Ropery Engineer, for an invention of "Improvements in submarine and subterranean electric telegraph cables, and in machinery for the manufacture thereof."—Dated 14th April, 1859.

1028. William Stevenson, of Johnstone, in the county of Renfrew, North Britain, Manager to George Houston and Company, for an invention of "Improvements in spinning, doubling, and manufacturing cotton and other fibrous materials."—Dated 25th April, 1859.

1038. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in sewing machines."—A communication from abroad by Robert Halsted Morford and Anthony Denton Morford, of New York.—Dated 25th April, 1859.

1162. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved construction of lamp."—A communication from abroad by William Henry Racey, of St. Augustine, St. John's County, state of Florida, in the United States of America.—Dated 9th May, 1859.

1180. Thomas Peter Bennett, of Gilnow Mills, near Bolton-le-Moors, in the county of Lancaster, Manager, for an invention of "Certain improvements in or applicable to carding engines."—Dated 11th May, 1859.

1493. Alexander Parkes, of Birmingham, in the county of Warwick, for an invention of "Improvements in the manufacture of cylinders and tubes of copper and alloys of copper."—Dated 21st June, 1859.

1647. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in magneto-electric machines."—A communication from abroad by George W. Beardslee, of Flushing, state of New York, in the United States of America.—Dated 11th July, 1859.

1687. William Morris Smith, of Northampton, Gentleman, for an invention of "The construction of fare boxes for the prevention of fraud on the part of drivers, conductors, &c."—A communication from abroad by J. B. Slawson, of New Orleans, in the state of Louisiana, in the United States of America.—Dated 16th July, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 14th September, 1859, inclusive.*)

10th September.

2115. Stephen White, of Newlands Street, Everton, Liverpool, in the county of Lancaster, Gentleman, for an invention of "An improved method and apparatus for the distillation of certain oils or oily substances from the petroleum, commonly called earth oil, found in certain districts in the Birman empire, and an improved method of purifying the oils or oily substances so obtained."—Dated 10th September, 1856.

2124. Pier Alberto Balestrini, of Brescia (Italy), for an invention of "Improvements in protecting and laying telegraphic wires."—Dated 11th September, 1856.

12th September.

2059. John Montagu Hayes, of Southsea, in the county of Hampshire, Captain, R.N., for an invention of "An improvement in the construction of cartridges for fire-arms."—Dated 4th September, 1856.

2142. Edward Green, of Wakefield, in the county of York, Engineer, for an invention of "Improvements in scrapers employed to cleanse boiler tubes and flues, for economizing fuel."—Dated 13th September, 1856.

2147. Frederic Ducimetière Monod, Chemist, of Marseille, Town in the French empire, for an invention of "Improvements in the manufacture of chlorine."—A communication.—Dated 13th September, 1856.

2159. Stanislas Chodzko, Chemist, of Paris, in the French empire, for an invention of "Improvements in the manufacture of manure, and the apparatus employed therein."—Dated 15th September, 1856.

13th September.

2157. George Cranstoun Trotter Cranstoun, of Chirnside Bridge, in the county of Berwick, North Britain, Paper Maker, George Young, of Dunse, in the county of Berwick, North Britain, Plumber, and John Lovell, of Chirnside Bridge, in the county of Berwick, North Britain, Paper Maker, for an invention of "Improvements in the application of steam for producing a boiling action in bleaching and other manufacturing processes."—Dated 15th September, 1856.

14th September.

2174. David Crichton, of the city of Manchester, in the county of Lancaster, Machinist, and James Cathcart, of the same place, Mechanician, for an invention of "Improvements in looms for weaving."—Dated 17th September, 1856.

2200. Archibald Templeton, of 7, Skinner Street, in the city of London, and John Lawson, of Glasgow, for an invention of "Improvements in the manufacture of pile fabrics."—Dated 19th September, 1856.

2202. William Young, of Queen Street, Cheapside, in the city of London, Lamp Manufacturer, for an invention of "Improvements in furnaces, fireplaces, and stoves."—Dated 19th September, 1856.

2294. John Holman, of the Western Clubs, Topsham, for an invention of "Improvement in ships' rudders."—Dated 1st October, 1856.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents which were Delivered, Prolonged, or became Void during the Month of June, 1859.†

(Communicated by the Austrian Government.)

Patents Delivered.

1. Ferdinand Teirich, of Vienna, for "A peculiar system of induction for telegraph lines, whereby the intermediate stations require no special batteries."—1 year.—(Secret.)—Dated 2nd June, 1859.

2. Simon Marth, of Vienna, for "Improvements in copying presses with an eccentric pressure."—1 year.—(Secret.)—Dated 2nd June, 1859.

3. Maximilian Brady and Johann Barwitzius, of Vienna, for "Puzzle locks of portemonnaies and pocket-books."—1 year.—(Secret.)—Dated 2nd June, 1859.

4. Jacob Steinschneider, of Pesth, for "Improvements in the manufacture of all kinds of mattresses."—1 year.—(Secret.)—Dated 2nd June, 1859.

5. Ernest de Caranza, of Paris, represented by Friedrich Rödiger, of Vienna, for "Improvements in apparatus and processes for the manufacture of gas."—1 year.—(Secret.)—Dated 2nd June, 1859.

6. Jacques Louis Lemaire, of Paris, represented by Cornelius Kasper, Vienna, for "A mould for making cigarets or so-called 'cigarotype.'"—1 year.—(Secret.)—Dated 4th June, 1859.

7. Johann Zeh, of Rustendorf, near Vienna, for "Improvements in locomotives."—1 year.—(Public.)—Dated 4th June, 1859.

8. Elias Horowitz, of Pesth, for "Improvements in economical kitchen ranges, stoves, and roasting pipes."—1 year.—(Secret.)—Dated 4th June, 1859.

9. Adolph Kux, of Prague, for "A peculiar construction of centrifugal machines for extracting and washing the juice of beetroot."—1 year.—(Secret.)—Dated 4th June, 1859.

10. Carl Austerlitz, of Vienna, for "Powder for destroying moths."—1 year."—(Secret.)—Dated 4th June, 1859.

11. Johann Nadler, of Pesth, for "Improvements in the manufacture of animal and unfattened glue in a liquid and inodorous state, and being applicable to the treatment of all kinds of articles, such as paper, leather, silk, velvet, &c."—1 year.—(Secret.)—Dated 4th June, 1859.

12. Adolph Kux, of Prague, for "A peculiar process for obtaining juice of a high degree in working beetroot juice by means of centrifugal apparatus."—1 year.—(Secret.)—Dated 8th June, 1859.

13. Carl Pietroni, of London, represented by Franz Gossleth, of Triest, for "Manufacture of soap by means of steam combined with neutral alkali and yellowish resin."—15 years.—(Secret.)—Dated 8th June, 1859.

14. Samuel Leporis, of Pesth, for "Peculiar kitchen ranges fired by coke."—1 year.—(Secret.)—Dated 8th June, 1859.

15. Josua and Paul Kuhn, of Butschowitz, Moravia, for "Improvements in cloth employed in pressing the juice of beetroot by means of hydraulic presses in the manufacture of sugar."—1 year.—(Secret.)—Dated 8th June, 1859.

16. Theodor Nikolaus Meynier, of Paris, represented by Georg Märkl, Vienna, for "An apparatus for washing coals and ores."—1 year.—(Public.)—Dated 8th June, 1859.

17. Eduard Pessier, of Valenciennes, France, represented by A. Martin, Vienna, for "Using alcohol in the manufacture of sugar for the purpose of separating strange substances from the sugar juice after its being distilled."—1 year.—(Public.)—Dated 8th June, 1859.

18. Friedrich Paget, of Vienna, for "Improvements in purifying, clarifying, and discolouring resin and resinous substances."—1 year.—(Secret.)—Dated 8th June, 1859.

19. Boyer and Co., of Ludwigshafen, represented by Aug. Schmidt, Vienna, for "Improvements in apparatus for heating by means of damp air."—4 years.—(Secret.)—Dated 9th June, 1859.

20. Dr. Gustav Bischof, of Bonn, represented by Dr. Heinrich Kern, Vienna, for "Improvements in his Patent process for extracting copper from sulphurous and oxidated copper ores without using acids."—5 years.—(Secret.)—Dated 9th June, 1859.

21. J. C. Schröder, of Berlin, represented by A. Martin, Vienna, for "A peculiar process for obtaining crystallized sugar from molasses of beetroot sugar, and from molasses of India sugar."—5 years.—(Secret.)—Dated 9th June, 1859.

22. Friedrich Eduard Schoch, of Vienna, for "Construction of a combined furnace for the manufacture of gas by utilizing at the same time the waste heat for heating purposes."—2 years.—(Secret.)—Dated 10th June, 1859.

23. Thomas Stregzek, of Vienna, for "A peculiar mode of covering buildings by means of metal sheets, being also applicable to tile and shingle roofs."—1 year.—(Secret.)—Dated 10th June 1859.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had, at the Library of the Commissioners' Office.

24. Samuel Grünbaum, of Ofen, for "A peculiar lining for protecting garments from perspiration."—1 year.—(Secret.)—Dated 10th June, 1859.

25. Carl Emanuel Welz, of Leitomischl, for "A peculiar electro-magnetic writing telegraph."—1 year.—(Public.)—Dated 14th June, 1859.

26. Joseph de Cente, of Wiener Neustadt, for "Improvements in the composition and manufacture of compound stones of various shapes, such as wheels, gimblets, files, whetstones, &c., whereby they obtain a hardness which is superior to that of steel files."—3 years.—(Secret.)—Dated 14th June, 1859.

27. Alexander Franz W. Chelm Iertschek, of Kronstadt, for "An artificial mode of drying glue and other products."—1 year.—(Secret.)—Dated 16th June, 1859.

28. Johann Timmel, of Vienna, for "An improved apparatus of wood and glass pipes, and process for obtaining vinegar."—1 year.—(Public.)—Dated 16th June, 1859.

29. Johann Schuberth, of Vienna, for "Improvements in his Patent pins and tacks for upholsterers, saddlers, &c."—1 year.—(Secret.)—Dated 16th June, 1859.

30. Fanin Gregor, of Raab, for "A peculiar mode of fastening buttons of men's dresses."—1 year.—(Secret.)—Dated 16th June, 1859.

31. Moriz Weber, of Vienna, for "A safety-valve with double cylinders, applicable to all steam boilers."—1 year.—(Secret.)—Dated 16th June, 1859.

32. Moriz Weber, of Vienna, for "An apparatus for uncoupling railway carriages, both their auxiliary chains being maintained and let loose."—1 year. (Secret.)—Dated 16th June, 1859.

33. Moriz Weber, of Vienna, for "A peculiar construction of locomotives for heavy good-trains."—1 year.—(Secret.)—Dated 16th June, 1859.

34. Moriz Weber, of Vienna, for "A safety-chain for raising heavy loads horizontally and vertically, and for drums of whims and couplings."—1 year.—(Secret.)—Dated 17th June, 1859.

35. Theodor Nikolaus Meynier, of Paris, represented by Georg Märkl, Vienna, for "Improvements in steam generators of stationary engines and locomotives."—1 year.—(Public.)—Dated 17th June, 1859.

36. Matthäus Muchowitz, of Vormarkl, Carinthia, for "A process for obtaining simple essence of sugar or honey vinegar, from syrup of sugar and from honey."—5 years.—(Secret.)—Dated 19th June, 1859.

37. Louise Jenny Pamela Branchu, of Paris, represented by Cornelius Kasper, Vienna, for "A peculiar process for obtaining nitric acid, and for applying the same to the construction of artificial pits of saltpetre."—1 year.—(Secret.)—Dated 19th June, 1859.

38. Friedrich Von Lössl and Johann Greiner, of Linz, and Wilhelm Dürschmidt, of Boudry, Switzerland, for "A self propeller for inland navigation."—2 years.—(Public.)—Dated 19th June, 1859.

39. Johann Christoph Endris, of Vienna, for "Improvements in the manufacture of gas, and in preparing the materials for gas-lights."—2 years. (Secret.)—Dated 19th Juue, 1859.

40. Moriz Fröhlich and Enoch Bloch, of Brünn, for "Improvements in the manufacture of pressed yeast."—3 years.—(Secret.)—Dated 21st June, 1859.

41. Carl Elbertzhagen, of Wittkowitz, Moravia, for "A peculiar method of manufacturing the links and similar parts of suspension bridges."—2 years.—(Secret.)—Dated 21st June, 1859.

42. Joseph Zane, of Venice, for "A machine for clarifying water, especially that of artesian wells."—1 year.—(Secret.)—Dated 21st June, 1859.

43. Theresia Preshel, of Vienna, for "Improvements in phosphor matches."—1 year.—(Secret.)—Dated 21st June, 1859.

44. Léon Isidor Molinos and Charles Pronnier, of Paris, represented by Cornelius Kasper, Vienna, for "A system of generating steam applicable to locomotives, stationary and movable boilers and engines."—1 year.—(Secret.)—Dated 22nd June, 1859.

45. Eugen Lemercier, of Paris, represented by A. Martin, Vienna, for "A machine for manufacturing foot coverings, articles of saddlery, and leather, by means of screws of copper, iron, and other metals and their alloys."—1 year.—(Public.)—Dated 22nd June, 1859.

46. Octav Hofmann, of Pesth, for "A rotary steam engine."—1 year.—(Public.)—Dated 22nd June, 1859.

47. Philipp Bauer, of Pesth, for "Improvements in suspending men's dresses."—1 year.—(Secret.)—Dated 22nd June, 1859.

48. Reinhold Von Reichenbach, of Vienna, for "A process for smelting iron and steel from ores."—1 year.—(Secret.)—Dated 23rd June, 1859.

49. Alois Eder, of Vienna, for "Improvements in his patent lounging sofas."—1 year.—(Secret.)—Dated 23rd June, 1859.

50. Hiram Hutchinson, of the United States, represented by Adolph Kolaczek, Vienna, for "Printing and fixing relief figures and designs of caoutchouc or similar resin on linen, cotton, silk, or other fabrics, and also on felt, leather, &c., by means of engraved cylinders."—2 years.—(Secret.)—Dated 23rd June, 1859.

51. Dr. Wilhelm Braubach, of Giessen, represented by Friedrich Aschermann, Vienna, for "So-called 'economical mineral varnish' for colouring and preserving wood and iron, for waterproofing tissues and paper, for painting houses and floors."—1 year.—(Secret.)—Dated 23rd June, 1859.

52. Hermann Hirsch, of Berlin, represented by Georg Märkl, Vienna, for "A so-called 'normal vessel.'"—5 years.—(Public.)—Dated 25th June, 1859.

53. J. H. F. Prillwitzer, of Berlin, represented by Georg Märkl, Vienna, for "A peculiar construction of elastic springs."—1 year.—(Public.)—Dated 25th June, 1859.

54. Friedrich Wiese, of Vienna, for "A combined Bramah and Chubb lock, which cannot be opened without the right key."—1 year.—(Public.)—Dated 25th June, 1859.

55. Ludwig Heuberger, of Vienna, for "Peculiar trusses."—1 year.—(Secret.)—Dated 25th June, 1859.

56. Friedrich Wiese, of Vienna, for "Improvements in Chubb's locks, whereby they cannot be picked."—1 year.—(Public.)—Dated 29th June, 1859.

57. Ferdinand Neiber and Heinrich Breiber, of Vienna, for "Apparatus for filling cigarets."—1 year.—(Public.)—Dated 29th June, 1859.

58. Michael Kohl, of Ottakring, for "Improvements in machines for the manufacture of all kinds of conical wire-springs."—1 year.—(Secret.)—Dated 29th June, 1859.

2. Patents Prolonged.

1. Rudolph Schifkorn, for "Improvements in rigid iron girders."—8th and 9th years.—(Public.)—Dated 29th May, 1852.

2. Gustav Fritsche, for "Decomposing kitchen salt by means of silicate for the manufacture of soda."—3rd year.—(Secret.)—Dated 29th November, 1857.

3. Franz Podany, for "Improvements in the manufacture of veneers for floors and other articles of joinery."—2nd year.—(Secret.)—Dated 31st May, 1858.

4. Theodosia von Papara, for "A key-board for pianofortes, whereby fingering may be practised."—5th year.—(Public.)—Dated 5th September, 1855.

5. Theodosia von Papara, for "A key-board, whereby the playing on pianos is facilitated."—5th year.—(Public.)—Dated 4th October, 1855.

6. Ignaz Holzknecht, for "Improvements in grinding."—3rd year.—(Public.)—Dated 22nd May, 1857.

7. Moriz Topolansky and Eduard Penecke, for "Improvements in their patent machine for cleaning and sorting corn, and for destroying weevils."—2nd year.—(Secret.)—Dated 29th May, 1858.

8. Theodosia von Papara, for "Improvements in her patent key-board for pianofortes, whereby fingering may be practised."—2nd year.—(Public.) Dated 19th February, 1859.

9. Franz Langhof, for "Improvements in railway buffers."—5th year.—(Public.)—Dated 31st May, 1855.

10. Carl Löwe and Joseph Gmeionböck (Carl Adler, assignee), for "Improvements in their patent machine for making wooden pins."—3rd year.—(Secret.)—Dated 30th May, 1857.

11. Nathan Schönwald (Samuel Weiss, assignee), for "A kind of soap."—3rd year.—(Secret.)—Dated 7th June, 1857.

12. Franz Fritcsek, for "Improvements in painting wooden and metal objects, and in protecting the latter from being worm-eaten."—2nd year.—(Secret.)—Dated 18th June, 1858.

13. Joseph Gross, for "Improvements in fastening buttons of men's dresses."—2nd year.—(Secret.)—Dated 5th July, 1858.

14. Carl Gangloff, for "A moveable concentric saw for cutting boards."—2nd year.—(Secret.) Dated 10th July, 1858.

15. E. H. Fiedler, for "A process for obtaining starch from every kind of corn, and especially from maize."—5th year.—(Secret.)—Dated 17th May, 1855.

16. Ludwig Hölbling, for "Artificial manure."—2nd year.—(Secret.)—Dated 3rd June, 1858.

17. Franz Sartori, for "Improvements in the manufacture of fire-proof bricks."—2nd year.—(Secret.)—Dated 24th June, 1858.

18. Simon Marth (Joseph Hornier, assignee), for "Improvements in the manufacture of washing machines with undulated grooves."—6th year.—(Public.)—Dated 7th June, 1854.

19. Simon Schwarz, for "Stuffing furniture."—2nd year.—(Secret.)—Dated 17th June, 1858.

20. Georg Schwab, for "Improvements in his Patent iron furniture, staircases, and railings."—2nd year.—(Secret.)—Dated 8th July, 1858.

21. Michael Schmid, for "Improvements in his Patent kitchen ranges and stoves."—4th year.—(Secret.)—Dated 13th June, 1856.

22. Katharine Behm, for "A peculiar substance for glueing articles of joinery."—2nd year.—(Secret.)—Dated 15th June, 1858.

23. Friedrich Müller, for "A flux for iron smelting and blast furnaces."—3rd year.—(Secret.)—Dated 20th June, 1857.

24. Georg Krüger, for "A peculiar drawing-room table."—6th year.—(Secret.)—Dated 17th June, 1854.

25. Wilhelm Skallitzky, for "Obtaining plastic (raised) letters of any metal sheets."—2nd year.—(Public.)—Dated 18th June, 1858.

26. Alois Widemann (Gustav Memel, assignee), for "A peculiar apparatus and process for roasting coffee."—2nd year.—(Secret.)—Dated 18th June, 1858.

3. Patents which have become Void.*

1. Wilhelm Hodges, for "Improvements in machines for knitting plain and figured hosiery articles with raised stripes."—Dated 23rd April, 1856; expired 23rd April, 1859.

2. Joseph Picko and Theresia Kirchlehner, for "An improved double printing machine for shawls and garments of wool, silk, calico, &c."—Dated 21st August, 1857; disclaimed 28th March, 1859.

3. The Heirs of Bartholomäus Cassoni, for "Improvements in the manufacture of magnesia."—Dated 4th April, 1858.—Cancelled for want of novelty on the 2nd June, 1859.

4. Johann Pichler, for "Improvements in the manufacture of grease for carriages."—Dated 22nd April, 1857; expired 22nd April, 1859.

5. Jacob Woracek and Robert Schelzel, for "Making the interior fittings of jewel cases of plaster."—Dated 3rd May, 1857; expired 3rd May, 1859.

6. Friedrich Rödiger, for "A calculating machine."—Dated 22nd May, 1851; expired 22nd May, 1858.

7. Johann Christoph Endris, for "Improvements in clarifying and discolouring vegetable

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

sugar juice."—Dated 18th February, 1857; expired 18th February, 1859.

8. Johann Christoph Endris, for "Improvements in lubricating axles of locomotives and railway carriages."—Dated 10th May, 1857; expired 10th May, 1859.

9. L. J. Denis, for "Improvements in machines for washing wool."—Dated 17th July, 1857; cancelled 8th June, 1859, in consequence of not having been worked.

10. Rudolph Gustav Wiester, for "Ornamenting harness of varnished leather by means of gold or silver seams."—Dated 5th January, 1858; expired 5th January, 1859.

11. Johann Zeh, for "A chemical process for clarifying natural rock-naphtha, so as to be applied immediately to technical purposes."—Dated 2nd December, 1853; expired 2nd December, 1858.

12. Alexis Zuppinger, for "Improvements in his Patent spindle for spinning and twisting cotton, flax, silk, and wool."—Dated 2nd December, 1853; expired 2nd December, 1858.

13. Ernst Ferdinand and Wilhelm Lieber, for "A cylinder-press for pressing beetroot juice in sugar-works."—Dated 9th December, 1853; expired 9th December, 1858.

14. Friedrich Eck, for "A machine for purifying clay or loam."—Dated 9th December, 1853; expired 9th December, 1858.

15. Heinrich Daniel Schmid, for "An improved balance for weighing locomotives, for ascertaining the pressure on each axle, and for equally distributing the weight, so as to regulate thereby the tension of the springs."—Dated 22nd December, 1853; expired 22nd December, 1858.

16. Theodor von Gilgenheimb, for "A machine for sowing and dunging at the same time."—Dated 14th December, 1855; expired 14th December, 1858.

17. Theodor von Gilgenheimb, for "A machine for roasting the soil and burning roots of newly tilled grounds."—Dated 24th December, 1854; expired 24th December, 1858.

18. Johann Riegl, for "Hair-oil."—Dated 24th December, 1854; expired 24th December, 1858.

19. Leopold Feiwel, for "An improved construction of moveable kitchen ranges of sheet-iron"—Dated 26th December, 1854; expired 26th December, 1858.

20. Bernhard Fürth, for "Manufacture of safety matches free from phosphor, with or without sulphur, and of friction surfaces."—Dated 3rd December, 1855; expired 3rd December, 1858.

21. Alois Scherer (F. J. Lindner, assignee), for "Improvements in the manufacture of grease for carriages."—Dated 7th December, 1855; expired 7th December, 1858.

22. Max Drucker, for "Dyeing cotton and linen articles, so as to obtain a solid lustre."—Dated 19th December, 1855; expired 19th December, 1858.

23. Ignaz Bachrach (Salomon Nimhin, assignee), for "A hand printing press, with continuous rollers of colours, for public offices."—Dated 24th December, 1855; expired 24th December, 1858.

24. Franz Brodesser and Stephen Schimbel, for "Constructing ship mills, so as to rest two wheels (placed diagonally) on the same ship."—Dated 27th December, 1855; expired 27th December, 1858.

25. Louis Swogetins Ky, for "Applying a new pressing apparatus to hydraulic oil presses, whereby roasted seed-flour and oil-cakes may be obtained at the same time."—Dated 6th December, 1856; expired 6th December, 1858.

26. Franz Xaver Semsch and Anton Reichhard, for "A harrow for removing moss from meadows."—Dated 9th December, 1856; expired 9th December, 1858.

27. Franz Fischer, for "Manufacture of a fireproof composition for bricks from magnesite or or other talc minerals containing no lime or potash, such as talc, talc-slate, and serpentine."—Dated 9th December, 1856; expired 9th December, 1858.

28. Carl and Eduard Kühn, for "Improvements in obtaining red oxide of iron (rouge) for polishing metals."—Dated 24th December, 1856; expired 24th December, 1858.

29. Johann Bürk and Friedrich Kollmar, for "An apparatus applicable to watches, whereby watchmen may be duly controlled."—Dated 30th December, 1856; expired 30th December, 1858.

30. Ludwig Vergottini, for "Improvements in obtaining the fibre of sportium jurceum and of mulberry twigs for the manufacture of tissues and paper."—Dated 1st December, 1857: expired 1st December, 1858.

31. Arnim Früh, for "An instrument called 'Semeiomelodion.'"—Dated 1st December, 1857; expired 1st December, 1858.

32. Anton Jagerndorfer, for "Improvements in the manufacture of pressed yeast."—Dated 3rd December, 1857; expired 3rd December, 1858.

33. Felix von Mizerski, for "An apparatus for protecting food contained in vessels from adulteration and putrefaction."—Dated 3rd December, 1857; expired 3rd December, 1858.

34. Mathias Hofherr, for "A peculiar construction of whims, whereby the draught is equally distributed on all motors."—Dated 11th December, 1857; expired 11th December, 1858.

35. Carl Oskar Kriegl, for "A new kind of porcelain saggars."—Dated 11th December, 1857; expired 11th December, 1858.

36. Franz Zantedeschi and Ludwig Borlinetto, for "Improvements in the manufacture of innoxious matches, which cannot be lighted by common friction."—Dated 11th December, 1857; expired 11th December, 1858.

37. Sommermeyer and Co., Emil Baars, and Carl Keck, for "Manufacture of iron safes."—Dated 14th December, 1857; expired 14th December, 1858.

38. Octav Hofmann, for "Applying external double steam cylinders with a peculiar action to locomotives."—Dated 14th December, 1857; expired 14th December, 1858.

39. Eugen Vincenzi, for "A new system of reducing the Jacquard cards to one third of their

usual size, of substituting paper stripes for pasteboard, and of moving the designs in every direction by means of a new arrangement of the pedals."—Dated 15th December, 1857; expired 15th December, 1858.

40. Joseph Bossi, for "A machine for cleaning and sorting grits of bruised wheat."—Dated 16th December, 1857; expired 16th December, 1858.

41. Wilhelm Pittner, for "Elastic arm and necklaces of any metal."—Dated 16th December, 1857; expired 16th December, 1858.

42. Ferdinand Scheithauer, for "Improvements in double printing machines for dresses and paperhangings with any number of colours."—Dated 16th December, 1857: expired 16th December, 1858.

43. Moriz Diamant, for "Means of preparing the fibres of most reed plants used in upholstery so as to protect them from vermin."—Dated 21st December, 1857; expired 21st December, 1858.

44. Johann Paul, for "Obtaining grease for lubricating carriages from resin or other distilled oils."—Dated 21st December, 1857; expired 21st December, 1858.

45. Joseph Ceruti, for "A system of inodorous fixed and moveable closets."—Dated 25th December, 1857; expired 25th December, 1858.

46. Joseph Ceruti, for "Peculiar fountains applied to gas chandeliers."—Dated 25th December, 1857; expired 25th December, 1858.

47. Wilhelm Samuel Dobbs, for "A pressure ventilator for obtaining a compressed blast."—Dated 24th December, 1857; expired 24th December, 1858.

48. Ignaz Horaczek, for "So-called 'economical Bukowine tallow-candles with plaited wicks.'"—Dated 26th December, 1857; expired 26th December, 1858.

49. Ignaz Horaczek, for "So-called 'economical Bukowine soap."—Dated 26th December, 1857; expired 26th December, 1858.

50. Simon Löwy, Moriz Schwarz, and Johann Koppenstein, for "Obtaining glue from animal, vegetable, and mineral substances which have not been used thereto till now."—Dated 27th December, 1857; expired 27th December, 1858.

51. Leopold Bäckl, for "Improvements in machines for sorting and cleaning wheat, barley, grits, &c."—Dated 27th December, 1857; expired 27th December, 1858.

52. Martin Tourschik, for "Metal clarinets."—Dated 31st December, 1857; expired 31st December, 1858.

53. Heinrich Wilhelm Jentzsch, for "Improvements in tallow candles and soap."—Dated 21st January, 1851; expired 21st January, 1859.

54. Dr. Ignaz Wildner Maithstein, for "Improvements in kitchen ranges."—Dated 27th April, 1851; expired 27th April, 1855.

55. Giorgio Enrico Armenia Gaddum, for "Improvements in his Patent method of carding all kinds of silk waste."—Dated 21st January, 1852; expired 21st January, 1859.

56. Carl Berchtold, for "A machine for harvesting corn."—Dated 24th June, 1856; disclaimed 19th June, 1859.

57. Michael Tastl, for "Improvements in repeating pendulum-clocks with weights and long pendulums."—Dated 1st January, 1858; expired 1st January, 1859.

58. Otto Baumann, for "A self-acting apparatus for raising liquids by means of expanded elastic fluids."—Dated 16th February, 1858; expired 16th February, 1859.

59. Otto Baumann, for "A peculiar mode of covering centrifugal machines."—Dated 22nd February, 1858; expired 22nd February, 1859.

BELGIUM.*

List of Patents Delivered on the 1st September, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 590 of this Journal.)

7835. Edouard Van Maele, of Thielt, for "Applying a vegetable substance to the manufacture of paper."—Dated 5th August, 1859.

7848. Jean Baptiste Lacroix, of Wavre, for "A system of pumps."—Dated 8th August, 1859.

7864. H. A. Bonneville, of St. Josse-ten-Noode, for an imported invention of "A system of columns for the service of public roads."—Dated 8th August, 1859.

7865. J. J. Russell, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in apparatus for heating and welding the edges of metal plates employed in the manufacture of cylinders."—Dated 12th August, 18 59—(English Patent, 16th February, 1859.)

7867. E. Darrien, of Liége, for "A steam hammer."—Dated 8th August, 1859.

7868. E. Darrien, of Liége, for "A system of eccentrics with a variable length of stroke, applicable to expansion gears."—Dated 9th August, 1859.

7869. C. J. Boutet, represented by J. Sainthill, of Brussels, for an imported invention of "Mills for grinding coffee and other grains."—Dated 11th August, 1859.—(French Patent, 31st May, 1859.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7870. C. MARTIN, of Pepinster, for "Improvements in machines for carding and combing wool."—Dated 12th August, 1859.

7871. C. FLEURY, of La Bronck-Forêt, for "A kind of syrup for preventing beer brewed in summer from becoming bad."—Dated 12th August, 1859.

7872. REGUILÉ-DELHEZ, represented by D. Tassin, of Liége, for "A balance with double compensating beams."—Dated 13th August, 1859.

7873. H. J. WARLOMONT, of Liége, for "A system of utilizing the waste heat of zinc furnaces."—Dated 17th August, 1859.

7874. J. LECLERCQ, of Housse, for "Breech-loading lever pistols loaded with Lefaucheux' cartridges."—Dated 12th August, 1859.

7875. P. J. JARRE, represented by J. Piddington, of Brussels, for an imported invention of "A system applicable to guns, rifles, pistols, and other fire-arms."—Dated 13th August, 1859. — (French Patent, 21st April, 1859.)

7876. J. GUYET, represented by J. Piddington, of Brussels, for an imported invention of "A turbine which may be combined with a threefold action, and which may be used as a counter and motor."—Dated 13th August, 1859.—(French Patent, 2nd August, 1859.)

7877. A. C. J. VAN LANGENHOVE, represented by J. Duvivier, of Brussels, a Patent of Improvement for "Applying colza straw to the manufacture of paper."—Dated 13th August, 1859.—(English; Pavy's Original Patent, 7th May, 1859.)

7878. J. A. WILKINSON, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in printing presses."—Dated 13th August, 1859.—(American Patent, 10th June, 1859.)

7879. L. RIGOLIER, represented by D. de Vos-Verraert, of Brussels, a Patent of Improvement for "A system of breaks."—Dated 16th August, 1859.—(Original Patent, 15th September, 1858.)

7880. J. B. VANGINDERTAELEN, of St. Josse-ten-Noode, for "A freezing apparatus with a continuous rotary motion, whereby liquids or gases may be brought to any temperature."—Dated 16th August, 1859.

7881. J. GIBBS, represented by J. Smets, of Brussels, for an imported invention of "Improvements in the manufacture of brushes, brooms, covers of floors, &c."—Dated 17th August, 1859.—(English Patent, 8th July, 1859.)

7882. R. DAELEN, represented by G. Neuhaus, for "A machine for rolling cylindrical plates of steam boilers."—Dated 18th August, 1859.

7883. J. T. FAY, represented by A. Crooy, of Brussels, for an imported invention of "Means of obtaining and applying motive power."—Dated 18th August, 1859.—(English Patent, 3rd August, 1859.)

7884. J. F. MIGUEL, represented by C. Wenseleers, of Brussels, a Patent of Improvement for "Trusses."—Dated 18th August, 1859.—(Original Patent, 31st May, 1859.)

7885. A. ALBERT, of Molenbeek St. Jean, for "Improvements in burners of lamps burning mineral oils."—Dated 19th August, 1859.

7887. M. RUNKEL, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in oscillating steam engines."—Dated 19th August, 1859.—(American Patent, 12th April, 1859.)

7888. F. WORMS DE ROMILLY and L. J. F. MARGUERITTE, represented by O. Daillencourt, of Brussels, for an imported invention of "A mode of defecating sugar-juice, and of completely saturating the defecating agent."—Dated 19th August, 1859.—(French Patent, 4th July, 1859.)

7889. E. WANTERS and ED. MYERS, of Brussels, for "A system of counters for registering the flow of gas, water, and beer." — Dated 20th August, 1859.)

7890. DEVISSCHER and MASSIGNOT, of Molenbeek St. Jean, a Patent of Improvement for "Apparatus for cutting paper and pasteboard."—Dated 22nd August, 1859. — (Original Patent, 9th August, 1859.)

7891. X. A. F. RIBAIL and J. C. GOSSET, represented by A. Crooy, of Brussels, for an imported invention of "An apparatus for distributing steam by means of an elliptical movement."—Dated 22nd August, 1859. — (French Patent, 3rd August, 1858.)

7892. H. CRICHTLEY and S. ELSTON, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in metallic pistons."—Dated 22nd August, 1859.—(French Patent, 18th August, 1859.)

7893. E. E. ALLEN, represented by J. Smets, of Brussels, for an imported invention of "Improvements in stereoscopes." — Dated 22nd August, 1859.—(French Patent, 19th August, 1859.)

7894. J. PETIT, represented by J. Smets, of Brussels, for an imported invention of "Lever locks." — Dated 22nd August, 1859. — (French Patent, 13th July, 1859.)

7895. F. E. LEMAIRE, represented by J. Smets, of Brussels, for "A continuous spindle." — Dated 22nd August, 1859.—(French Patent, 26th May, 1859.)

7896. J. C. F. LHÔTE, represented by J. Smets, of Brussels, a Patent of Improvement for "An apparatus for manufacturing and mixing Selters and other gaseous waters."—Dated 22nd August, 1859.—(Original Patent, 6th September, 1858.)

7897. VOUILLON and TAVERNIER, represented by J. Smets, of Brussels, a Patent of Improvement for "Treatment of all kinds of filamentous substances."—Dated 22nd August, 1859.—(Original Patent, 12th March, 1859.)

7898. F. A. STOLLE and E. SEIDLER, represented by J. Smets, of Brussels, for "An economical and smoke-consuming apparatus for heating steam-boilers."—Dated 23rd August, 1859.

7899. J. SILVERCRUYS, of Brussels, for "A safety belt used in the medical treatment of lunatics."—Dated 23rd August, 1859.

7900. P. VANDENWEGHE-LEFÈVRE, of Bruges, for "Rocking scales."—Dated 24th August, 1859.

7901. CH. VANDEZANDE, of Louvain, for "A mordant for dyeing." — Dated 24th August, 1859.

PRUSSIA.*

List of Patents Delivered and Annulled between the 1st June and 31st August, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. Patents Delivered.

1. Robert Rudolph Werner, of Berlin, for "A rotary steam-engine."—5 years.—Dated 1st June, 1859.
2. F. Martini, of Rothenburg, near Cönnern, for "A furnace for the manufacture of tar from peat and other fossils."—5 years.—Dated 4th June, 1859.
3. F. Andreas Siemenroth, of Custrin, for "A peculiar construction of sounding posts of stringed instruments." — 5 years. — Dated 11th June, 1859.
4. S. Elster, of Berlin, for "A peculiar apparatus for obtaining a steady water level in gas meters and other apparatus." — 5 years. — Dated 7th July, 1859.
5. Mentzel, of Berlin, for "A peculiar instrument for measuring the density of wool on the backs of sheep."—5 years.—Dated 16th July, 1859.
6. Caspar Post, of Eilpe, near Hagen, for an imported invention of "Means of fastening skates." —5 years.—Dated 8th August, 1859.
7. W. Spindler, of Berlin, for "A new red dyeing substance." — 5 years. — Dated 22nd August, 1859.
8. Richard Lauckner, of Aue, Saxony, for "An apparatus in wool cards for taking off the slubs." —5 years.—Dated 26th August, 1859.

2. Patents Annulled.

1. A. Facilides and Wiede, of Plauen, for an imported invention of "A mechanical apparatus in spinning machines for assembling broken thread." —Dated 3rd April, 1858. — Annulled 1st June, 1859.
2. Kühne, of Halberstadt, for "An apparatus for extracting beetroot sugar." — Dated 10th April, 1858.—Annulled 10th June, 1859.
3. Friedrich Schmidt, of Hagen, for "A blast furnace."—Dated 15th October, 1857.—Annulled 8th July, 1859.
4. J. H. F. Prillwitz, of Berlin, for an imported invention of "A loom for weaving plush." — Dated 4th June, 1858. — Annulled 19th July, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 30th August, 1859, and each bearing that date.

No. 25,236. Edmund Belling, of New York, N.Y., for an "Improvement in lozenge machines."

"I claim the combination of a revolving or reciprocating knife with the lower part of a press, and operated simultaneously with the same, in the manner and for the purpose, substantially as described."

No. 25,237. Abraham Andrews and Harrison Kalbach, of Berneville, Pa., for an "Improved horizontal water wheel."

"We claim the curved concave buckets having curved or eccentrically formed tops and bottoms, in combination with a spiral water way or chamber underneath, and arranged within a box A, substantially as herein described and represented."

No. 25,238. Douglas Bly, of Rochester, N.Y., for an "Improvement in artificial legs."

"I claim, 1st, the combination of the segment of rubber B, or its equivalent, with the foot F and leg A, in the manner and for the purpose substantially as described. Secondly, I claim connecting the foot to the leg by means of the cord C, or its equivalent, thereby dispensing with all joints, bolts, hinges, and metal straps, and the friction and noise to which they give rise."

No. 25,239. John C. Boyd, of Boston, Mass., for an "Improvement in elastic hose tubing."

"I claim as a new article of manufacture, the hose made of flexible tubes, the same consisting of a woven fabric of cotton, hemp, or other fibrous materials, lined with, or fastened to a layer or sheet of vulcanized india rubber or gutta percha, or of any other waterproof composition, and the whole secured by rivets, substantially as described."

No. 25,240. Wm. Boyd, of New Orleans, La., for an "Improvement in iron ties for cotton bales."

"I claim in combination with the splits, the use of a key having wings at each end, to form the lock to the tie, when made and arranged as and for the purpose set forth."

No. 25,241. Jehu Brainerd and W. H. Burridge, of Cleveland, O., for an "Improvement in tanning."

"What we claim, is, the improvement in tanning herein set forth, consisting in the immersion of the skins and hides in a tan liquor made from the digestion of the before mentioned plants, and the accompanying treatment of the skins and hides by their immersion in the preparing liquid, the whole process being conducted in the manner set forth, whereby the valuable properties of the plants may be preserved for use, and this we claim, whether the above described tan liquor be used separately or in connection with other subjects containing tannin."

No. 25,242. Henry Brevoort, of San Francisco, Cal., for an "Improvement in gold amalgamators."

"I claim the drag, having upon its lower surface or shoe, the combination of the blocks of rubbing surfaces (*o*) and channels (*i*), the two being arranged reciprocally in the manner herein described. I also claim combining with a revolving drag (F, a pan (A), whose bottom is inclined, and has the form of a circular trough, as represented in the drawing,

so as to collect the mercury in mass. I also claim combining an amalgating pan and revolving drag with a galvanic battery, arranged in such manner that its poles are extended into the mass of material in the pan, and that the parts of the material are subjected in succession to the action of the galvanic current. I also claim the employment of a solution of the nitrate of mercury, in connection with a galvanic battery and a friction amalgamator containing mercury, substantially as herein set forth."

No. 25,243. HENRY BREVOORT, of San Francisco, Cal., for an "Improvement in quartz crushing machines."

"I claim the relative arrangement and combination of the curved grinding shoes (E^1, E^1,) having their front edges beveled and inclined backwards from their outer corners, and caused to revolve as described, so as to gather in and return the coarser fragments towards the centre of the series, substantially as herein set forth. I also claim the arrangement and combination of a series of grinding shoes (E^1), with their front edges curved or inclined backwards, as described, with a corresponding inner series of reducing shoes (E), so that the coarser fragments are redelivered in an inward direction to the reducing shoes, while the grinding and outward movement of the fine particles proceed continuously, substantially as herein set forth."

No. 25,244. WM. BRIGGS, of Norristown, Pa., for an "Improvement in gun lock."

"I claim constructing the stock A and breech of barrel D so as to be susceptible of and united to each other by the tang or breech pin C and tapering screw-pin E, and the spring hammer guard H and trigger P, arranged and combined with stock A, essentially in the manner and for the purposes fully set forth."

No. 25,245. B. S. CHURCH, of Manhattanville, N. Y., for an "Improved water meter."

"I claim, 1st, the arrangement of drum A with the chamber B and buckets C, as described, in combination with the trough G and the air chamber D, and operating substantially as and for the purpose set forth. 2nd, the arrangement and combination of the trough G, the pipe H, the chamber I, the air chamber D, and the drum A, to operate substantially as and for the purpose herein specified."

No. 25,246. H. S. CLARK, of Wyalusing, Pa., for an "Improvement in carriage springs."

"I claim the arrangement and combination of the U-shaped leaves B, B, with the elliptical springs A, A, as herein shown and described, so that the extremities of the leaves B, B, will approach each other, and will be secured to the centres of the springs A, A, as specified."

No. 25,247. F. J. CRISSEY, of Leesburg, Va., for an "Improvement in washing machines."

"I claim the arrangement of frame E, supports *i*, *i*, upright shaft D, rollers B, B, supports *c*, *c*, *c*, and collar G, in combination with the bottom of the tub, when the parts shall be constructed and arranged in relation to each other, as herein substantially set forth."

No. 25,248. ADDISON CROSBY, of Fredonia, N. Y., for an "Improved valve for steam engines."

"I claim the employment, as an induction or eduction valve in a steam engine, of a rolling or oscillating valve composed of two segments, having their faces *a*, *a*, eccentric to its axis of oscillation and with an opening *d* between the segments, substantially as herein described."

No. 25,249. HORACE H. DAY, of New York, N. Y., for an "Improvement in elastic cloth."

"I claim the new elastic cloth, herein described, consisting of stockinet cloth, elastic gum, and flock combined, substantially as herein set forth, so that the elastic gum is covered on one side by the stockinet and on the other by the flock, the said elastic cloth being a new manufacture."

No. 25,250. SAML. DE VAUGHAN, of Washington, D. C., for an "Improved scroll sawing machine."

"1, I claim the vertical plates *g* and guide blocks *h*, plates *m*, and m^1, and guide arm *i*, for the purpose of a compound guide, as set forth. 2, I claim the manner of operating link *k* on bearing *u*, in combination with block *h* and guide arm *i*, for the purpose set forth."

No. 25,251. JOHN ANDERSON FALK, ANDW. JOHNSON, and G. A. ERICKSON, of Altona, Ill., for an "Improvement in harvesters."

"We claim the arrangement of the wheel H, which is provided with the pin *a*, near its periphery with the bar *i* and pulley S, the same being constructed in the manner set forth, for the purpose of operating the band which drives the endless belt K, substantially as described."

No. 25,252. THEODORE F. FRANK, of Ischua, N. Y., for an "Improvement in opthalmic vapor apparatus."

"I claim the opthalmothological vapor bath, constructed and operating as herein-before described, for producing medicated vapor."

No. 25,253. ALBERT FULLER, of Cincinnati, O., for an "Improvement in faucet."

"I claim encasing an elastic plug valve in the above-described metallic shield, for the purposes set forth."

No. 25,254. QUINCY A. GILMORE, of New York, N. Y., for an "Improved machine for cutting and screening bituminous limestone or asphalte."

"I claim, first, the rotary cylinder or drum *a* carrying kives or cutters *b*, *b*, substantially of the form described, arranged in rows either with or without the raised bands, substantially as represented, or in rows parallel or oblique to the axis of the cylinder for cutting asphalte, sometimes known under the name of bituminous limestone, substantially as described. Second, I also claim the application of the machine as a whole, substantially as described, to the purpose of cutting and screening asphalte or bituminous limestone."

No. 25,255. A. GOLAY, of Mobile, Ala., for an "Improvement in cord guides for sewing machines."

"I claim the arrangement and combination with the adjustable plate D, of the groove (*f*), and guides (*c*, *d*, *e*,) substantially as herein shown and described, so that the cord may be guided and conducted between two or more thicknesses of cloth, as set forth."

No. 25,256. ELIAS GRAHAM and ISAAC N. PATTON, of Elizabeth Town, Ky., for an "Improvement in flour bolts."

"We claim the combination of the wedged sliding ribs C, with the rods and screws, for adjusting the same, in the manner and for the purposes herein set forth."

No. 25,257. JONATHAN H. GREEN, of Christianburg, Iowa, for an "Improved billiard cue tip."

"I claim a tip or point, for billiard or bagatelle cues, made of any compound herein described, so as to dispense with the external application of chalk or other substance to the point of the cue."

No. 25,258. BENJN. L. GRIFFITH, of Reading, Pa., for an "Improved hollow grate bar for steam boilers."

"I claim two or more tubes C, attached to a hollow boxes D, connected to the fire-box, by means of hollow perforated screw plugs G, and arranged in sets, to complete the grate, as and for the purpose herein set forth."

No. 25,259. HENRY GROSS, of Tiffin, O., for an "Improvement in breech-loading fire-arm."

"I claim, 1st, giving the chamber its longitudinal motion upon a bed piece, which remains fixed during such motion, and in revolving, carries with it the chamber, substantially as specified. 2nd, the roller *r*, or its equivalent, upon the check piece, and its combination with the groove *g*, *d*, substantially as and for the purpose set forth. 3d, the double eccentric head of the level L, when connected with the chamber and bed piece, substantially as described. 4th, the adjustable bearing piece for the eccentric g^1 of lever L."

No. 25,260. ALBERT W. HALE, of New York, N.Y.. for an "Improved fastening for hooped skirts."

"I claim the method of connecting and fastening the ends of the hoop B, by means of the caps A, one part of such cap, with the end of the hoop, forming a point or extension *b*, to enter a recess *a*, in the cap, on the other end of the hoop, and such cap also furnishing the recess to receive the said points or extension of the other end of the hoop, when the hoop and cap are bent in the manner and for the purpose described."

No. 25,261. Wm. H. Hammond, of New York, N.Y., for an "Improved escapement for chronometers"

"I claim the employment of the hollow semi-cylinder on the vibrating lever, substantially as described, in combination with the escapement wheel, and the balance and verge, as set forth. And I also claim, in combination with the escapement, substantially such as described, or any equivalent therefor, the employment of the holding spring, substantially as and for the purpose specified."

No. 25,262. James Harrison jr., of New York, N.Y., for an "Improvement in sewing machines."

"I claim, 1st, the combination of the frame or feeding lever (*j*), bar (*m*), spring (*o*), and regulating screw (*p*), all constructed and operated as described, with the needle and needle frame (*i*), for carrying the mechanism for rotating the needle, as described. 2dly, I claim the adjustable bar or band (z^1), affixed to the lever or frame J, in combination with the frame (*i*), or its equivalent, for controlling the upward movement of the feed lever, as described; and, 3rdly, I claim the bar or band (z^1), in combination with the bar (*m*), screw (*p*), spring (*o*), and lever (*j*), as and for the purposes set forth."

No. 25,263. Royal Hatch, of Strafford, Vt., for an "Improved bed bottom."

"I claim the arrangement of a central supporting bar F, with a sacking E, both provided with double loops *d*, and attached respectively to the bedstead, as and for the purpose set forth."

No. 25,264. Alexr. Hay, of Philadelphia, Pa., for an "Improvement in springs for railroad cars, &c."

"I claim as a new article of manufacture, the construction of vulcanized india rubber springs, in which the threads, or warp, or fabric out of which they are formed, is made non-elastic before it is woven or knit, substantially as described. 2nd, in combination with india rubber springs to be acted on by tension or stretching, I claim the tubes A, A, with their flanges, substantially as described, for the purpose set forth. 3rd, in combination with the springs operating as described, I claim the supporter P with the opening F, in each end, and holes B, B, B, for tightening the spring when constructed and operated substantially as set forth."

No. 25,265. Milo A. Holcomb, of Granby, Conn., for an "Improved metallic razor strop."

"I claim a razor strap made of polished steel, of the requisite degree hardness, when possessing a sufficient degree of flexibility to enable the angle which its surface forms with the edge of the razor to be lessened to the desired extent, in the manner and for the purpose as herein specified."

No. 25,266. Daniel Hussey, of Nashua, N. H., for an "Improvement in machinery for winding warps upon the beam."

"I claim the peculiar combination for maintaining uniformity of wind or surface speed of wind on the yarn beam, the same consisting of the friction wheels G, F, the lifter rack K, the pinion *l*, and the compound motion mechanism, or their mechanical equivalents, the whole being applied to the yarn guide roller and the mechanism for adjusting the yarn beam, substantially in manner and so as to operate as specified."

No. 25,267. Joseph Kalbach and Isaac Kalbach, of Bernville, Pa., for an "Improvement in furnaces for smelting zinc ores."

"We claim as our invention is, constructing the crucible with a detachable bottom, and connecting it to the arch by the cylinder or collar, and to the bed plate by the rings or annular plates, whereby we are enabled to empty the crucible at its bottom, and to remove the entire crucible through the bottom or the arch of the heat chamber as may be required, the whole being arranged and susceptible of being used, as herein set forth."

No. 25,268. Eleazer B. Knight, of Malden, N.Y., for an "Improvement in machines for holding stones."

"I claim providing the stone holding machine with the suspending arms (*c*, *c*,) plates (*j*) and (*n*), rod (*i*), and adjusting bolts (*k*, *k*), or their equivalents, whereby said machine may be readily adjusted vertically, and also horizontally, in the arc of a circle, substantially as described, and for the purposes specified."

No. 25,269. Charles Livingston, of Redwood City, Cal., for an "Improved wind mill."

"I claim the cowl D with tubes *j*, *g*, and wheel B, combined and arranged for joint operation, substantially as and for the purpose set forth."

No. 25,270. Isaac Mallory, of Etna, N. Y., for an "Improved chute for horizontal water wheels."

"I claim constructing and arranging the scroll within the penstock, so that it can be turned so as to partially close the orifice for the admission of water upon the buckets, and to thereby regulate the flow of water for any head or for any quantity of water, essentially as above specified."

No. 25,271. E. E. Marcy, of New York, N. Y., for an "Improvement in curing and treating caoutchouc."

"I claim the improved process of curing india rubber by combining india rubber with the sulphuret of lead and carbonate of lead, or the protoxide of lead, in the manner herein-before described, and without the use of free sulphur in combination with the rubber, or with said compound, and the exposure of these compounds to steam or water at the temperature herein-before indicated, and in the mode pointed out."

No. 24,272. E. E. Marcy, of New York, N. Y., for an "Improvement in curing and treating caoutchouc."

"I claim the improved process of curing india rubber by combining it with the sulphuret of zinc and the hyposulphite of zinc, in the manner herein-before described, and subjecting the compound to steam or water at the temperature stated, without the use of free sulphur, in combination with said compound, substantially as described."

No. 25,273. E. E. Marcy, of New York, N. Y., for an "Improvement in curing and treating caoutchouc."

"I claim the improved process of curing india rubber and producing an improved article of india rubber, by combining india rubber with the hyposulphite of zinc, in the manner herein-before described, and without the use of free sulphur in combination with the rubber, or with said compound, and the exposure of this compound to steam or water, at the temperature herein-before stated, and in the mode pointed out."

No. 25,274. R. D. Nesmith, of Franklin, N. H., for "Improvement in machines for picking millstones."

"I claim the spring Q upon rod P, provided with head I, for limiting the extent of its action upon the picks, as arranged with the inclined plane T, and cam F, and the operating parts with which they are connected, in the manner and for the purpose specified."

No. 25,275. Saml. Nowlan, of New York, N, Y., for an "Improvement in apparatus for manufacturing illuminating gas."

"I claim the gas exhaust and expelling wheel, interposed between the retort and the condenser, constructed and arranged so as to operate substantially in the manner and for the purposes specified."

No. 25,276. John H. Pein, of Haboken, N. J., for an "Improvement in apparatus to photograph on uneven surfaces."

"I claim photographing on vases or on other uneven solids by means of an apparatus substantially as herein described, and in the manner substantially as set forth."

No. 25,277. Edmund Queru, of New York, N. Y., for an "Improvement in gelatinizing oils."

"I claim the jellification of castor oil by means of the process herein-before described."

No. 25,278. Chas. H. Raymond, of Southington, Conn., for an "Improvement in tinman's machine."

"I claim the movable and adjustable stand M, and its revolving box L, when combined with shaft I, cap plate E, and screw J, in the manner described, and for the purposes fully set forth."

No. 25,279. CHAS. B. SAWYER, of Fitchburgh, Mass., for an "Improved furnace and ventilator."

"I claim providing the fire pot with a series of small holes or openings *e*, substantially as and for the purposes set forth."

No. 25,280. EDWARD L. SEYMOUR, of New York, N. Y., for an "Improved ore concentrator."

"I claim, 1st, the rotating sieve in combination with the bellows or their equivalents, operated by the act of rotation of the former, substantially as described. 2nd, the application of two or more rotary sieves, combined with such an arrangement of 'waste tubes' *e*, that the refuse of the upper sieve shall be led to constitute the supply or feed of the sieve next below it as described. 3rd, I claim rendering the receiving mouths of the 'waste tubes' *e*, e^1, e^{11}, adjustable as described, and for the reason given. 4th, I claim the use of the closed chambers or 'traps' *y*, y^1, y^{11}, below the sieves, as described and for the purposes explained."

No. 25,281. PHILO B. SHELDON, of Prattsburg, N. Y., for a "Composition for destroying insects injurious to fruit trees."

"I claim combining and employing the ingredients herein described in substantially the method and proportions set forth, for the purpose of destroying borers and other insects on fruit trees."

No. 25,282. J. H. SHIPMAN, of Yorkville, N. Y., for a "Letter file."

"I claim the arrangement of the movable hinged guards B, in combination with the metal back A, and points *b*, substantially as and for the purpose described."

No. 25,283. WM. H. SMITH, of Newport, R. I., for an "Improved hose coupling."

"I claim the new article of manufacture or hose coupling described, made by combining the open spiral flange *a* with a screw D, as set forth."

No. 25,284. JAMES SPEAR, of Philadelphia, Pa., for an "Improvement in stove urns."

"I claim the combination of the register in the base of the urn, with the ornamental receptacle for the cup, constructed in the manner and for the purpose described."

No. 25,285. A. L. SPERRY, of Auburn, Ind., for an "Improvement in churns."

"I claim the arrangement of the hook *i* and button *k*, to operate in combination with the dasher D and breaker frame E, in the manner and for the purpose herein specified."

No. 25,286. HENRY D. STOVER and J. W. BICKNELL, of Boston, Mass., for an "Improved rotary planing cutter."

"We claim the adjustable revolving guard J, as constructed and connected adjustably to the cutter head, carried by and having all its movements to effectually protect the operator from mutilation, and to hold down the material receiving shape, essentially in the manner fully set forth."

No. 25,287. PETER SWEENEY, of Buffalo, N.Y., for an "Improvement in stone saws."

"I claim the employment of two plates A, A, in combination with the dish form cutter C, arranged substantially as and for the purpose herein shown and described."

No. 25,288. JOSEPH SWEOTZER, of Bideford, Me., for an "Improvement in shingles."

"I claim this fluting of the shingles."

No. 25,289. GEO. TAYLOR and GEO. H. BURGER, of Worthington, O., for an "Improved auger for cutting round tenons."

"We claim the arrangement and combination of the spring E with the shank D and tube A, substantially as herein shown and described, whereby the plug C is rendered self-adjusting, as set forth."

No. 25,290. JOSEPH B. THOMPSON, of Warrenton, Geo., for an "Improved feed-water apparatus for steam boilers."

"I claim the exterior water chamber G, communicating with the supply tank B by pipe *a*, and with the boiler A by force pump P and pipe *b*, and provided with a valve J, as set forth, in combination with the peculiarly constructed floats C, rods E and I, and lever F, operating as and for the purpose specified."

No. 25,291. WM. H. THOSS, of San Francisco, Cal., for an "Improvement in fire-plating iron."

"I claim preparing the iron after it has been cleansed with dilute acid, by immersion in a solution of borax, and after being dried, passing it through the molten copper maintained at the required heat in a furnace constructed substantially as herein described, with a roof to concentrate the heat over the basin of molten copper, and with an aperture at one side to insert the iron to be plated, and a corresponding one on the opposite side to receive the iron as it is drawn from the copper plated, substantially as described and for the purposes specified."

No. 25,292. WM. A. VERTREES, of Winchester, Mo., for an "Improvement in hemp brakes."

"I claim constructing the rocking breaker frame of hemp or flax breakers, in the manner described, and operating it by means of a slotted pitman, in such manner as that while the vibratory motion is communicated from the prime motor to the breakers by machinery, yet they fall on the hemp or flax with a free stroke or flail motion, substantially as hereinbefore described."

No. 25,293. NATHL. WATERBURY, of Fon du Lac, Wis., for an "Improved shingle machine."

"I claim, 1st, the reciprocating bolt carriage D, tilting beds J, J, circular saw I, and sliding jaws G, G, arranged relatively with each other as shown and operated respectively by the cam C, cam ratchets K, K, and pendents *o*, *o*, belt *t*, and levers and weights J^1, J^{11}, substantially as and for the purpose set forth. 2nd, in connection with the reciprocating bolt carriage D, saw I, and tilting beds J, J, the bars L, L, provided with inclined slots *p*, *q*, and connected with the frames d^1, d^{11}, of the jaws F, G, by means of the pins *r*, fitting in said slots for the purpose of elevating the bolts during their return movement, as described. 3rd, the employment or use of the cam ratchets K, K, attached to the framing A, in connection with the pendents *o*, *o*, attached to the reciprocating bolt frame D, arranged substantially as shown for automatically tilting the beds J."

No. 25,294. PETER L. WEIMER, of Lebanon, Pa., for an "Improved machine for coiling metal pipe."

"1st, I claim the coiling cylinder E, with the peculiar shaped groove, constructed and arranged as herein fully described and specified. 2nd, I claim the arrangement of the two guide wheels M, triangular piece K, and shafts L, when used in combination with the coiling cylinder, and for the purpose as herein fully described and specified. 3rd, I also claim the movable plate F, and jack screws G, for the purpose of adjusting the guide wheel shafts L to any angle required."

No. 25,295. ASA WHEELER, of Brattleboro', Vt., for an "Improvement in skates."

"I claim the arrangement and combination of the adjustable heel piece F, heel case D, stock E, screw H, and front straps C, as and for the purpose herein shown and described"

No. 25,296. JOHN M. WHITE, of New York, N.Y., for an "Improved feed water heater for steam boilers."

"What I claim as my invention is the arrangement of the division chamber *c*, supply and discharge pipes F and G, and heating pipes *b*, *b*, 1, placed within the exhaust pipe B, as described, in combination with the relief pipe H, by which, when necessary, the water may be passed directly to the boiler, without being passed through the heating pipes *b*, *b*, 1."

No. 25,297. ABUER WHITELEY, of Springfield, O., for an "Improvement in harvesters."

"I claim, first, so arranging the mechanism of the automatically operating door or shutter for preventing, scattering, and admitting the gavels to be discharged at regular intervals, as to permit the attendant to increase the intervals of time for the discharge of the gavels, where the grain is thin upon the ground, substantially as described. Secondly, the combination of the rake *q*, with the door or shutter R, for discharging the gavel at the time the door or shutter is opened for the purpose, whether it is at regular intervals, or less frequently, substantially as described."

No. 25,298. JEPTHA AVERY WILKINSON, of Brooklyn, N.Y., for "Shears for separating paper."

"I claim, first, separating paper, or other material, by the joint operation of a revolving shear, and a stationary surface, when said stationary surface is so formed and placed as gradually to approach the path described by the shear in its revolution, and compress the said paper, or other material, on to the edge of said revolving shear, in the manner and substantially as specified. Second, I claim the elastic roller or rollers *e*, *e*, in combination with the stationary shear E, and revolving shear *c*, on the cylinder D, whereby the paper is passed through and separated progressively, as at two operations, as set forth. Third, I claim the arrangement of the shaft carrying the rollers *e*, *e*, the springs 12, and cams 10, for elevating the rollers, and preventing traction on the paper, as set forth."

No. 25,299. FRANK C. BROWN, of Philadelphia, Pa., assignor to W. Brown, of same place, for an "Improvement in turnouts for railways."

"I claim the addition of grooves on the circumference of the car wheels, as now constructed, with a single flange and tread, and the placing of curved bars at turnouts on the track of the road, to enter and operate on such grooves, for the purpose of changing the direction of cars, substantially as and for the purpose herein set forth."

No. 25,300. SETH BOYDEN, of Newark, N. J., Assignor to himself and H. H. Jacques, of same place, for an "Improvement in machinery for hardening hat bodies."

"I claim, 1st, the employment of a cloth M, or its equivalent, in combination with a cone E, in the manner and for the purpose, substantially as herein shown and described. 2, the arrangement and combination of the frame I, shaft J, eccentrics (h^1), rods (*i*), tubes (*j*), arms (*l*), shaft K, eccentrics (*p*), rods (*q*), bars (L), and cloth (M), substantially as herein shown and described, so that the cloth M will be operated with a compound movement, as set forth."

No. 25,301. WM. P. GOOLMAN, of Dublin, Ind., assignor to himself and S. B. Morris and Wm. Hollingsworth, of same place, for an "Improvement in rotary harrows."

"I claim, 1st, the described application of friction rollers between rotary concentric harrows to elevate oppo sides of the respective harrows, in the manner and for the purposes set forth. 2nd, the reversible arm F, arranged between concentric harrows A and B, to change the direction of the rotation of the said harrows, as explained. 3rd, the reversible bent spindle C, adapted in the manner set forth, to correspond with the relative obliquity of two concentric harrows. 4th, the described arrangement of the friction rollers *e*, e^1, and adjustable washer *g* on the arm F, operating in the manner set forth, to vary the relative obliquity of the harrow."

No. 25,302. Daniel G. GREENE, of North Bridgewater, Mass., assignor to himself and Wm. Nash, of South Weymouth, Mass., for an "Improvement in wrenches."

"I claim the combination of the movable jaw B, inclined shoulders U, with the pawl H and inclined shoulders V, and enlarged hole J, and ratchet teeth H, said parts being constructed and arranged to operate in relation to each other in the manner and for the purposes set forth."

No. 25,303. MICHAEL IRION, of Utica, N. Y., assignor to himself and Jacob Heidel, of Oneida county, N. Y., for an "Improvement in shears."

"I claim the combination of the cutting plates C, C^1, the circular punch D, and the circular die E to receive the punch, and surrounded by a cutting edge as described, in connection with a pair of movable jointed arms, the whole so combined and arranged to operate in the manner as hereinbefore more fully set forth."

No. 25,304. GEO. MARLOW and MICHAEL RALPHE' of Cincinnati, O., assignors to A D. Brown, W. C. Valette, and Geo. Marlow, of same place, for an "Improvement in lamps."

"We claim, 1st, the described arrangement of the separate cup-formed back reflector J, upon the inside of the door K, in the described combination with an open-backed parabolic or conical reflector I, constructed as set forth. 2nd, the described arrangement of glazed doors M and M^1, hinged vertically to the front angles of the lantern, and adapted in the manner set forth, to be fixed either in front of the lantern or against one or other of its sides, for the purpose explained."

No. 25,305. THEODORE MARSCHALL, of New York N. Y., assignor to Lighte and Bradbury's, of same place, for an "Improvement in pianoforte actions."

"I claim the spring-supporting post K, M, N, O, when used in the described combination with a stud L, separate and distinct from the moving parts to detain the hammer at any determined height, while the jack descends sufficiently to re-engage beneath the hammer but."

No. 25,306. E. L. PRATT, of Philadelphia, Pa., assignor to himself and R. B. Fitts, of same place, for an "Improvement in churns."

"1st, I claim, in combination with the rotary case or body (A) of a churn a diaphragm or piston (C), adapted both to the move upon and be moved by a screw shaft (D), or its equivalent, placed horizontally in the said case as described, the said diaphragm (C) and shaft (D) being constructed and combined together as herein set forth. 2nd, I also claim the series of perforations (*o*, *o*), through the diaphragm or piston (C), in combination with the movable perforated adjusting disk or plate (*n*), or their equivalent, the same operating together in the case (A), substantially as and for the purpose set forth and described."

No. 25,307. WM. F. PRATT, of East Bridgewater, Mass., assignor to the E. Carver Company, of same place, for an "Improvement in cotton gins."

"I claim the use of a naked or unshielded auger or cleaver, operating in the end of the ginning roll of a cotton gin, at or near the centre thereof, substantially in the manner and for the purpose described."

No. 25,308. ALLEN SHERWOOD, of Auburn, N.Y., assignor to E. P. Senter, A. H. Goss, Wm. Hills, and Ameretta Sherwood, of same place, for an "Improvement in grain binding mechanism."

"I claim, first, the combination of the shield F, and lever I, both removable and located at one side of the delivery portion of the platform, so that the shield shall protect the lever from the cut material, and form one side of an open ended grain receiver (the fence E forming the other side thereof), where the grain is deposited previous to being bound up as described. I also claim in combination with the raker's stand B, and binder's seat C, the shield F, and lever L, so arranged as that the raker from his stand may sweep the cut grain into the receiver and the binder from his seat, reach beyond the receiver to catch the lever L, as set forth. I also claim in combination with the grain receiver the inclined ledges G, H, under which the wire is passed, so as not to catch or interfere with the entrance of the grain therein as set forth. I also claim the slot and flanges in the shield I, said flanges serving as a guide for properly bringing down the foot of the lever to insert the wire in the twisting wheel as set forth. I also claim in combination with the lever L, the clamp *s*, located in close proximity to the handle *r*, so that the binder as he draws up the gavel may check the paying out of the wire, and thus bring it tightly around the bundle as set forth. I also claim the combination of a removable shield and lever (F, L,) on the platform with a removable twisting mechanism on the faence or side of the platform G, for the purpose of adapting an ordinary hand delivery mowing machine into a self-binder or vice versa, without in any manner altering the parts which enables it to be so changed, except to attach or detach them as set forth."

No. 25,309. DANIEL DODGE, of Keeseville, N.Y., for an "Improvement in nail machines."

"I claim, the combination of an anvil B, and fixed die C, or other equivalent fixed surfaces, a roller E, hammer F, G, and a vibrating guide I, the whole operating substantially as herein described. And I also claim the operation of a hammer in combination with the roller E, and anvil B, by means of an eccentric on the roller shaft, and a universal joint at the connection of the hammer with the connecting rod of the eccentric substantially as herein described."

RE-ISSUES.

MICHAEL A. DIETZ, of Brooklyn, N.Y., for an "Improvement in lamps."—Patented 3rd May, 1859.—Re-issued 30th August, 1859.

"I claim combining the deflector with the chimney band, by mechanical devices, so as to retain the former in its proper relative position without the use of solder."

HENRY EHRENFELD, of New York, N.Y., for an "Improved device for converting reciprocating into intermittent rotary motion."—Patented 21st June, 1859.—Re-issued 30th August, 1859.

"I claim, 1st, arranging the lever C, and dog B, in combination with the grooved wheel A, or its equivalent, in such a manner that said lever and dog act on the wheel without a connection to the center or hub of the wheel, substantially as and for the purpose specified. 2nd, in combination with the lever C, dog B, and wheel A, I claim the arrangement of the groove *d*, or its equivalent in the hub of the wheel substantially as and for the purpose specified. 3rd, I claim arranging the lever C with the dog B, permanently attached to it in such a manner that the direction of said lever, when it is in its place, makes an angle of 90 degrees, or nearly so, with a line drawn from the center of the wheel through the dog, substantially as herein specified."

SIDNEY S. HOGLE, of Cleveland, Ohio, for an "Improvement in harrows."—Patented 7th March, 1857.—Re-issued 30th August, 1859.

"I claim causing the points of the teeth of a rotating harrow to descend deeper into the ground on one side of their axis of rotation than they do upon the opposite of the same, for the purpose of enabling the dragging force which may be exerted upon said harrow to impart a positive rotary motion thereto, without the aid of gearing wheels."

ARCHIBALD G. SHAVER, of Hartford, Conn., for an "Eraser and pencil sharpener."—Patented 8th March, 1859.—Re-issued 30th August, 1859.

"I claim, first, the curved blade eraser, as above specified, forming on one side a convex surface, substantially as and for the purposes set forth. I also claim, in combination therewith, the pencil sharpener and pointer, as described."

DESIGNS.

JEAN BAPTISTE VIROLET, of New York, N. Y., assignor to John W. Hoyt, of same place, for a "Design for floor oil cloth."

"I claim the combination and arrangement of figures and devices herein specified and represented in the accompanying photographic impression to form an ornamental pattern or design for a floor oil cloth."

HENRY G. THOMPSON, of New York, N. Y., assignor to the Hartford Carpet Manufacturing Co., for a "Design for a carpet pattern."

"I claim the configuration of the design hereunto annexed when made by being inwrought into Three Ply Ingrain, or other carpeting in the form similar to the drawings accompanying this specification."

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ADDITIONAL IMPROVEMENT.

DOUGLAS B. JORDAN, of Cumberland, R. I., for an "Improvement in mode of oiling journals."—Patented 15th March, 1859.—Additional Improvement dated 30th August, 1859.

"I claim, 1, the hinging the dish or bucket G to the rod J, as shown, for the purpose set forth. 2, the dish or bucket G, in combination with the several parts marked C, D, E, F, and I, for the purposes set forth and described."

In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

The classes already published are,—

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The following are in the press:—

ELECTRICITY AND MAGNETISM: THEIR GENERATION AND APPLICATIONS.
PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s*. per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 596. TUESDAY, SEPTEMBER 20, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1138. FREDERICK ANGERSTEIN, of Kennington, in the county of Surrey, Esquire, ROBERT CLEGG, of Islington, in the county of Middlesex, Gentleman, and GEORGE THORRINGTON, of Egham, in the said county of Surrey, Lighterman, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in apparatus for obtaining motive power."

As set forth in their petition, recorded in the said office on the 6th day of May, 1859.

1146. And JULIEN COMBE, of No. 23, Rue du Champs de Mars, in the city of Paris, in the empire of France, Gentleman, formerly a Colonel in the French army, has given the like notice in respect of the invention of "An improved plantoforme or apparatus for measuring the hoofs of horses, for the purpose of forming their shoes."

As set forth in his petition, recorded in the said office on the 7th day of May, 1859.

1164. And EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W. C., has given the like notice in respect of the invention of "Improvements in obtaining motive power."—A communication from abroad by Aimé François Lapène, of Paris, in the empire of France.

1165. And THOMAS GREEN, junior, of Old Broad Street, in the city of London, has given the like notice in respect of the invention of "Improvements in apparatus applicable to steam boilers, to obtain greater security against explosion."

As set forth in their respective petitions, both recorded in the said office on the 9th day of May, 1859.

1169. And WILLIAM WILKINSON and CHARLES WHITLEY, of the city of Manchester, in the county of Lancaster, have given the like notice in respect of the invention of "Improvements in buttons and fastenings for garments, harness, and other similar purposes, and in the method of securing the same."

As set forth in their petition, recorded in the said office on the 10th day of May, 1859.

1187. And JAMES LEADBETTER, of Leeds, in the county of York, Brazier, and JAMES RHODES, of Armley, near Leeds, in the same county, Water Rate Collector, have given the like notice in respect of the invention of "Improvements in pumps."

As set forth in their petition, recorded in the said office on the 11th day of May, 1859.

1190. And JOHN SAXBY, Engineer, of Brighton, Sussex, has given the like notice in respect of the invention of "Improvements in the mode of securing the rails on railways."

1191. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "Improvements in machinery for solidifying, pressing, and moulding."—A communication from abroad by Felix Dehaynin, residing at Paris.

1192. And ANDRÉ PROSPER ROCHETTE, of Brighouse, in the county of York, has given the like notice in respect of the invention of "An improvement in the manufacture of soft soap."

1193. And THOMAS RIDLEY OSWALD, of Sunderland, Ship Builder, has given the like notice in respect of the invention of "Improvements in building ships and other vessels."

As set forth in their respective petitions, all recorded in the said office on the 12th day of May, 1859.

1196. And THOMAS SCOTT, of Rouen, in the empire of France, Engineer, has given the like notice in

respect of the invention of "An improved surface condenser and refrigerator."

1205. And JOSHUA TAYLOR BEALE, of Greenwich, in the county of Kent, Engineer, and THOMAS NESHAM KIRKHAM, of Upper Halliford, in the county of Middlesex, Civil Engineer, have given the like notice in respect of the invention of "Improvements in the preparation of colors for dyeing and printing."

As set forth in their respective petitions, both recorded in the said office on the 13*th day of May,* 1859.

1208. And MATTHEW LEAHY, of 53, Hereford Road, Westbourne Park, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for facilitating the draught of carriages."

1212. And EDWIN MAW, of the Doncaster Iron Works, Yorkshire, has given the like notice in respect of the invention of "Improvements in the construction of buildings made of iron or other metals."

1213. And JOHN CHATTERTON, of 7, Devonshire Street, Islington, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in covering wires and other metal conductors for telegraphic purposes."

As set forth in their respective petitions, all recorded in the said office on the 14*th day of May,* 1859.

1219. And GEORGE ALLCRAFT, of Upper Thames Street, in the city of London, has given the like notice in respect of the invention of "Improvements in pressure gauges."—A communication from abroad by John Allcraft, of Bedford Street, New York.

As set forth in his petition, recorded in the said office on the 16*th day of May,* 1859.

1227. And JAMES NASMYTH, of Surrey Street, Strand, in the city of Westminster, Engineer, has given the like notice in respect of the invention of "Improved apparatus for obtaining and applying motive power."

As set forth in his petition, recorded in the said office on the 17*th day of May,* 1859.

1229. And ROBERT ROMAINE, late of Canada West, but now of Chapel Street, Bedford Row, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the means of applying steam power to the cultivation of the soil."

1232. And SAMUEL NORTON EVANS, of Chapel Yard, North Street, Wolverhampton, in the county of Stafford, Commission Agent, has given the like notice in respect of the invention of "Improved mechanism for preventing accidents at mines from overwinding."

1237. And JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in lubricating certain portions of machinery." — A communication from abroad by Michael Bonière the younger, of Paris, in the empire of France, Manufacturer.

1239. And JAMES CHILDS, of Windsor House, Putney, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in hardening and vulcanizing compounds of sulphur with india rubber and gutta percha."

As set forth in their respective petitions, all recorded in the said office on the 18*th day of May,* 1859.

1245. And ROBERT VALENTINE LEACH, of Taibach, in the county of Glamorgan, and of Devizes, in the county of Wilts, Tin Plate Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of iron and in the machinery connected therewith."

As set forth in his petition, recorded in the said office on the 20*th day of May,* 1859.

1262. And ROBERT VALENTINE LEACH, of Briton Ferry, in the county of Glamorgan, and of Devizes, in the county of Wilts, Tin Plate Manufacturer, and THOMAS WILLIAM WILLETT, of Pont Neath, Vaughan, in the county of Brecon, Civil Engineer, have given the like notice in respect of the invention of "Improvements in the manufacture of tin plates and terne or leaded plates, and in the apparatus connected therewith."

As set forth in their petition, recorded in the said office on the 23*rd day of May,* 1859.

1346. And JOHN JAMES LUNDY, of the city of Manchester, in the county of Lancaster, and of Leith, North Britain, Colour and Varnish Manufacturer, has given the like notice in respect of the invention of "Improvements in cartridges and gun-wads for facilitating the loading and lubricating of fire-arms."

As set forth in his petition, recorded in the said office on the 31*st day of May,* 1859.

1407. And MICHAEL JOHN HAINES, of Dursley, in the county of Gloucester, Strap Maker, has given the like notice in respect of the invention of "Improvements in the manufacture of driving straps or bands."

As set forth in his petition, recorded in the said office on the 10*th day of June,* 1859.

1419. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improvement in fire-arms." — A communication from abroad by Charles Theodore Pierson, of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 11*th day of June,* 1859.

1489. And EDWARD GWYN, of Islington, in the county of Middlesex, Gas Engineer, has given the like notice in respect of the invention of "Improvements in breech-loading fire-arms."—A communication from abroad by Henry Gross, residing in Ohio, U. S. A.

As set forth in his petition, recorded in the said office on the 21*st day of June,* 1859.

1683. And CHRISTOPHER POTTINGER, of Anstruther, in the county of Fife, North Britain, Boat Builder, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for dredging or excavating, and for driving piles."
As set forth in his petition, recorded in the said office on the 16th day of July, 1859.

1731. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in extracting oil from coal and other substances yielding pyrogenous oils."—A communication from abroad by Franklin W. Willard, of New York, in the United States of America.
As set forth in his petition, recorded in the said office on the 25th day of July, 1859.

1742. And JOHN DAVIES, of Tetbury, in the county of Gloucester, Machinist, has given the like notice in respect of the invention of "A new or improved self-adjusting ventilating apparatus."
As set forth in his petition, recorded in the said office on the 27th day of July, 1859.

1930. And THOMAS RICHARDSON, of New Bridge Street, Newcastle-on-Tyne, has given the like notice in respect of the invention of "Improvements in treating copper ores."
As set forth in his petition, recorded in the said office on the 23rd day of August, 1859.

1937. And JAMES MURRAY, Knight, of Dublin, Doctor of Medicine, has given the like notice in respect of the invention of "Improvements in the preparation and bottling or preserving of carbonated cod liver oil and other aerated liquids."
As set forth in his petition, recorded in the said office in the 24th day of August, 1859.

1951. And FRANCIS WRIGLEY, of Manchester, in the county of Lancaster, Consulting Engineer, has given the like notice in respect of the invention of "Certain improvements in the construction of the permanent way of railways."
As set forth in his petition, recorded in the said office on the 27th day of August, 1859.

2001. And WILLIAM BROWN the younger, of the town and county of Selkirk, North Britain, Manufacturer, and SIMEON BATHGATE, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for grinding or sharpening the card teeth of carding engines, for carding fibrous materials."

005. And STRANGMAN DAVIS GOFF, HENRY DAVIS, SAMUEL STRANGMAN, and EDWARD STRANGMAN, of the firm of Davis, Strangman, and Co., Waterford, Ireland, Brewers, have given the like notice in respect of the invention of "An improved method of, and apparatus for, drying malt, corn, and other articles."
As set forth in their respective petitions, both recorded in the said office on the 2nd day of September, 1859.

2015. And WALTER NEILSON, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in steam hammers."

2017. And JAMES CHARLES NIXON, of the firm of Messrs. Danks and Nixon, of the town and county of the town of Nottingham, Furnishing Ironmongers, and Domestic Range and Closet Manufacturers, has given the like notice in respect of the invention of "Improvements in kitchen ranges with combined steamer and hot closets, for cooking, warming, drying, or other purposes."
As set forth in their petitions, recorded in the said office on the 3rd day of September, 1859.

2072. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "An improved arrangement of piston packing, principally applicable to hydraulic apparatus."—A communication from Casimir and Celestin Dabbène, residing at Verduno, Sardinian States.

2073. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "Improvements in the construction of hydraulic pumps."—A communication from Louis Laurent Bequemie, residing in Paris.
As set forth in his petitions, recorded in the said office on the 12th day of September, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 17th September*, 1859, *inclusive.*)

16th September.

2175. JOHN BARBER, of the city of Manchester, in the county of Lancaster, Engraver to Calico Printers, for an invention of "Improvements in machinery or apparatus for mill and other engraving, punching, dividing, and ruling rollers, either for hand or machine engraving, and an improved maundril used in mill, eccentric, and other machinery employed in engraving rollers for printing and embossing calicoes and other fabrics."—Dated 17th September, 1856.

17th September.

2203. EDWARD FINCH, of Bridge Works, Chepstow, Engineer, for an invention of "Improvements in the construction of wrought iron masts, bowsprits, yards, booms, gaffs, and spars, and in rigging ships."—Dated 19th September, 1856.

2206. JOHN UNDERWOOD and FREDERIC VALENTINE BURT, of Fish Street Hill, in the city of London, Stationers and Printers, for an invention of "The manufacture of copying inks for printing."—Dated 19th September, 1856.

2218. William Taylor, residing at Woodhall Cottage, Shipborne, Tunbridge, for an invention of "Improvements in the conversion of cast iron into steel and malleable iron."—Dated 22nd September, 1856.

2253. Samuel Calley, of Brixham, in the county of Devon, Ship Owner, for an invention of "Improved composition and compositions for coating or covering surfaces, particularly the bottoms of ships and vessels." — Dated 25th September, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

17th September.

120. George Collier, of Halifax, in the county of York, Mechanic, for an invention of "Improvements in the manufacture of carpets and other fabrics."—Dated 1st October, 1852.

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 8th September, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 595 of this Journal.)

7733. J. T. Dupuy, represented by H. Biebuyck, of Brussels, for an imported invention of "A lithographic and lithochromic press."—Dated 9th July, 1859.—(P. D. Vate's French Patent, 22nd August, 1857.)

7796. Alph. Lambert, represented by F. Anthoine, of Brussels, for an imported invention of "A kind of spring petticoats."—Dated 26th July, 1859.—(French Patent, 29th January, 1859.)

7818. F. P. and F. G. Broermann, represented by Ch. Houtekiet, of Brussels, for "Spring bottoms of beds."—Dated 30th July, 1859.

7859. J. H. Gerdoneck, of Antwerp, for "A system of rocking scales."—Dated 10th August, 1859.

7902. C. Mahillon, of Molenbeek St. Jean, for "A system of cornets à piston."— Dated 25th August, 1859.

7903. J. Rodelet, of Liége, for "Basins of puddling furnaces with circulation of water."—Dated 26th August, 1859.

7904. G. Paulussen and J. Heiliger, of Liége, for "A beer-pump worked by atmospheric pressure."—Dated 19th August, 1859.

7906. A. Lebegge-Derynck, of Ghent, for "A machine for splitting leather."—Dated 25th August, 1859.

7907. Gits and Co., represented by X. Raclot, of Brussels, for "A furnace for reducing animal charcoal."—Dated 26th August, 1859.

7908. N. D. Maillard, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in compasses."—Dated 26th August, 1859.—(English Patent, 4th August, 1859.)

7909. J. Dale, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in concentrating caustic alkalis."—Dated 26th August, 1859.—(English Patent, 24th February, 1859.)

7910. Ch. Glassborow, represented by H. Biebuyck, of Brussels, for "Improvements in pianofortes."— Dated 26th August, 1859.— (French Patent, 20th August, 1859.)

7911 E. F. Fossey, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in blast engines."—Dated 26th August, 1859.—(French Patent, 20th August, 1859.

7912. J. J. Salmon and P. B. Moreels, represented by D. Hérode, of Schaerbeek, for "Manufacture of hygienic mattresses of horn shavings."—Dated 27th August, 1859.

7913. A. Callès, of Ixelles, a Patent of Improvement for "Apparatus for heating and ventilating."—Dated 27th August, 1859.—(Original Patent, 10th March, 1857.)

7914. C. Rabatel, represented by X. Raclot, of Brussels, for "Economical constructions of lithogenic brickwork, and pise of earth, and other mineral substances."—Dated 27th August, 1859.

7915. W. Moseley, represented by X. Raclot, of Brussels, for an imported invention of "Fountain penholders."—Dated 27th August, 1859.—(French Patent, 3rd August, 1859.)

7916. H. P. Burt, represented by A. Crooy, of Brussels, for an imported invention of "A mechanism for facilitating the removal by hand of railway carriages."—Dated 27th August, 1859.—(English Patent, 10th February, 1859.)

7917. J. C. Ashwell, represented by a A. Crooy, of Brussels, for an imported invention of "Improvements in wheels of railway carriages."—Dated 27th August, 1859.—(English Patent, 2nd August, 1859.)

7918. M. Parmentier, of Brussels, for "A system of railway chairs of rolled iron for superseding the pins, cramps, and screw rings in Vignoles' rails."—Dated 27th August, 1859.

7920. A. Berger, of Jemmapes, for "Improvements in the manufacture of matches for mining operations."—Dated 26th August, 1859.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7922. Ch. Schinz, represented by H. Biebuyck, of Brussels, for "Glass-smelting furnaces."—Dated 29th August, 1859.

7923. A. C. Gérard, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A moveable horse gin with a variable speed, applicable to agricultural and industrial purposes."—Dated 29th August, 1859.—(Original Patent, 13th October, 1858.)

7924. G. W. Beardslee, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in electro-magnetic machines."—Dated 29th August, 1859. — (English Patent, 11th July, 1859.)

7925. Th. Wright, reprerented by J. Piddington, of Brussels, for an imported invention of "Improvements in the permanent way and stock of railways."—Dated 29th August, 1859.—(French Patent, 24th August, 1859.)

7926. F. Bangert, of Floreffe, a Patent of Improvement for "Using powdered or granular pyrites in the manufacture of sulphuric acid."—Dated 29th August, 1859. — (Original Patent, 26th May, 1859.)

7927. F. Knickenberg, of Brussels, a Patent of Improvement for "A system of towing boats on canals and rivers."—Dated 30th August, 1859.—(Original Patent, 10th December, 1858.)

7928. Antheunis Brothers, of Overbonlaere-lez-Grammont, a Patent of Improvement for "A machine for ranging matches to be manufactured in their frames."—Dated 31st August, 1859.—(P. G. Antheunis' Original Patent, 18th November, 1858.)

7929. J. Laubereau, represented by V. Lefebvre, of Alost, for a Patent of Improvement for "A motor worked by hot and cold air, with a single or double action."—Dated 30th August, 1859.—(Original Patent, 7th January, 1859.)

7930. Ed. Daveluy d'Elhoungne, of Bruges, for "A process for colouring playing cards."—Dated 31st August, 1859.

7931. G. Arnould, of Mons, for "An apparatus for preventing incrustations of steam boilers."—Dated 31st August, 1859.

7932. J. J. Saint-Remy, of Liége, for "Improvements in the double movements of revolving fire-arms."—Dated 29th August, 1859.

7833. A. J. Gérard, of Liége, for "An electric motor."—Dated 29th August, 1859.

7934. C. C. Renard Steinbach, of Liége, for "A furnace for baking refractory products."—Dated 27th August, 1859.

7935. N. J. Henket, of Vivegnis, for "A breech loading gun."—Dated 31st August, 1859.

7936. A. J. Panchenne, of Liége, a Patent of Improvement for "A lever revolving pistol with hinges."—Dated 30th August, 1859.—(Original Patent, 20th April, 1859.)

7937. J. Hanzey, of Monceau-sur-Sambre, a Patent of Improvement for "Apparatus for lowering and raising workmen in mines."—Dated 2nd September, 1859.—(Original Patent, 8th July, 1858.)

Erratum in Journal of 16th September.

For "No. 2947" read "2047."

List of Specifications published during the week ending 16th September, 1859.

No.	Price.	Subject-Matter.
365	3*d.*	Steaming printed yarns.
367	7*d.*	Fire-arms.
370	4*d.*	Bleaching and purifying sugar, &c.
372	7*d.*	Breech-loading fire-arms, and cartridges for the same.
376	7*d.*	Self-acting railway switch.
378	7*d.*	Steering apparatus.
379	5*d.*	Safety blinker.
380	3*s.* 1*d.*	Looms for weaving narrow fabrics.
383	6*d.*	Hansom cabs.
386	2*s.* 11*d.*	Apparatus for the manufacture of paper.
387	3*d.*	Pen for writing in duplicate.
388	5*d.*	Instruments for crushing sugar, &c., and mixing solid and liquid matters.
390	5*d.*	Pianofortes.
391	6*d.*	Beer engines.
393	9*d.*	Jacquard apparatus applicable to power looms.
394	6*d.*	Changing or reversing motion.
397	3*d.*	Manufacture of bobbins and spools.
398	10*d.*	Cooking apparatus.
399	1*s.* 4*d.*	Raising and lowering ships along inclined slips.
400	6*d.*	Refrigerators for cooling beer and worts.
401	6*d.*	Book slides.
402	3*d.*	Fire-arms and ordnance.
403	3*d.*	Revivifying the scarlet colour of woollen cloth, &c.
404	10*d.*	Machinery for breaking and preparing flax and other fibres.
405	3*d.*	Separating and recovering wool from mixed fabrics.
406	6*d.*	Breech-loading fire-arms.
407	3*d.*	Sewing machines.
408	3*d.*	Coffins.
409	1*s.* 3*d.*	Steam boilers, &c.
410	4*d.*	Ornamenting English passe-partouts for photographic pictures, &c.
411	6*d.*	Reducing and rolling steel and iron wire &c.
412	1*s.* 1*d.*	Working railway signals and switches.
413	6*d.*	Obtaining light from gases.
414	3*d.*	Manufacture of soap.
415	3*d.*	Discharging and conveying sewage or water, &c.
416	3*d.*	Dress caps.
417	3*d.*	Manufacture of cigars.
418	4*d.*	Manufacture of steel, iron, and cast steel.
419	8*d.*	Application of waste heat from puddling furnaces.
420	3*d.*	Life raft.
421	5*d.*	Brace buckles, loops, and braces.
423	3*d*	Joining wire for telegraphic and other purposes.
424	5*d.*	Preventing the oscillation of railway carriages.
425	3*d.*	Varnish for ships' bottoms.
426	11*d.*	Apparatus for arresting the ascent or descent of mine skips or cages.
427	10*d.*	Machinery for making bricks, tiles, &c.
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Evenings - - - -	1557
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1814. To CHARLES CLAUDE RAYMOND GOUDENOVE and ADOLPHE FERET, both of No. 60, Rue Neuve St. Augustin, Paris, Merchants, for the invention of "An improvement in gas burners."—Partly a communication from Marie Pierre Augustin Coquet, a person residing at Paris, Rue des Trois Cornes, No. 39, Paris.

On their petition, recorded in the Office of the Commissioners on the 6th day of August, 1859.

1886. To WILLIAM LEATHAM, of Leeds, in the county of York, Engineer, for the invention of "An improved double acting superlative screw throttle valve."

On his petition, recorded in the Office of the Commissioners on the 16th day of August, 1859.

1910. To JOHN GREGORY, of Barreiro, in the kingdom of Portugal, Engineer, for the invention of "Improvements in locomotive and other steam engines."

On his petition, recorded in the Office of the Commissioners on the 22nd day of August, 1859.

1970. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings."—A communication from abroad, by Joseph Harrison the younger, of the city of Philadelphia, in the state of Pennsylvania, in the United States of America, Engineer.

1972. To GEORGE COLLIER, of No. 23, Elizabeth Street, Eaton Square, in the county of Middlesex, for the invention of "Improvements in chairs and couches."

1974. To JOSHUA FIELD, of Lambeth, in the county of Surrey, Engineer, for the invention of "Improvements in apparatus for superheating steam."

1976. And to HENRY HUTTON, of Palace Road, Lambeth, in the county of Surrey, for the invention of "An improved lubricator."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of August, 1859.

1978. To JAMES COWGILL and JOHN STOCKS, both of Bradford, in the county of York, Mechanics, for the invention of "Improvements in caps for spinning fibrous substances, and in the means or method of manufacturing the same."

1980. To WILHELM ADOLF VON KANIG, of Hardinge Street, Islington, in the county of Middlesex, for the invention of "Improvements in the manufacture of starch and compounds of starch, and in extracting gum dextrine and grape sugar therefrom."

1984. To JAMES MACKENZIE, of Saint Martin's-le-Grand, in the county of Middlesex, and STEPHEN THOMAS WENTWORTH, of the same place, Gas Engineers, for the invention of "Improvements in breech-loading fire arms."

1986. To JAMES SAMUEL, of Great George Street, in the city of Westminster, Civil Engineer, for the invention of "Improvements in railway sleepers."

1987. To HENRY HIGGIN, of Bow, in the county of Middlesex, Engineer, for the invention of "Improvements in machinery for cutting and preparing match splints."

1988. To LOUIS BERGE, of Newgate Street, in the city of London, Manufacturer of Leather Goods, for the invention of "An improved method of

fastening or securing portemonnaies, bags, and other like articles with frames."

1990. And to EDWIN ELLIS, of St. Ann's Well Road, Nottingham, for the invention of "Improvements in finishing silk fabrics made on bobbin net, and warp frames."

On their several petitions, recorded in the Office of the Commissioners on the 31st day of August, 1859.

1992. To JAMES BRINE, of Maidstone, in the county of Kent, Stationer and Printer, for the invention of "Improvements in the mode of preparing, arranging and combining the leaves of books to be used for producing simultaneously one or more fac-simile copies of letters, accounts, or other such similar documents or writings."

1996. And to JAMES BORRINGTON, of Derby, in the county of Derby, Plumber, for the invention of "Improvements in pumps."

On both their petitions, recorded in the Office of the Commissioners on the 1st day of September, 1859.

1998. To PETER WRIGHT, of Dudley, in the county of Worcester, Manufacturer, for the invention of "An improvement or improvements in the manufacture of anvils."

2002. To JOHN KIPPEN WATSON, of Edinburgh, in the county of Mid-Lothian, Gentleman, for the invention of "Improvements in gas meters and exhausters, washers, and purifiers."

2004. To WILLIAM CLOUGH, of Wigan, in the county of Lancaster, Overlooker, for the invention of "Certain improvements in machinery or apparatus for propelling vessels on water."

2006. To WILLIAM ALLEN TURNER, of the city of Manchester, in the county of Lancaster, Starch Manufacturer, and HENRY LOUIS LILLEY, of Stand Lane, in the said county, Manager, for the invention of "Improvements in the manufacture of starch."

2008. To JEAN FRANÇOIS FÉLIX LEROUX, of 29, Boulevart St. Martin, Paris, in the empire of France, Merchant, for the invention of "A new or improved apparatus to be employed for taking money on the counters."

2009. To THOMAS HEDGCOCK, of Ivy Cottage, Great Church Lane, Hammersmith, in the county of Middlesex, Master in the Royal Navy, for the invention of "An improvement in quadrants."

2010. And to JOHN SPURGIN, of Great Cumberland Street, in the county of Middlesex, M.D., for the invention of "Improvements in ordnance and projectiles."

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of September, 1859.

2018. To GEORGE PARSONS, of Martock, in the county of Somerset, Engineer, for the invention of "Improvements in wheels."

2020. And to HENRY SWAN, of 5, Bishopsgate Street Without, for the invention of "Improvements in stereoscopes and stereoscopic pictures."

On both their petitions, recorded in the Office of the Commissioners on the 3rd day of September, 1859.

2022. To FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, for the invention of "Improvements in the manufacture of caustic alkalies."—A communication from abroad from Henry Pemberton, of East Tarentum, U. S., North America.

2026. To WILLIAM LOUIS EARLE, of Alfred Place, Bedford Square, in the county of Middlesex, Gentleman, for the invention of "Improvements in apparatus for promoting the combustion of smoke and gases arising from fuel."

2028. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in sewing machines."—A communication from abroad by Henry Washington Hayden, of Waterbury, in the state of Connecticut, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 5th day of September, 1859.

2030. To GEORGE LOWRY, of Salford, in the county of Lancaster, Machinist, for the invention of "Improvements in machinery for heckling flax and other fibrous materials."

2034. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved fabric, applicable to the manufacture of hose or flexible pipes."—A communication from abroad by Nehemiah Hunt, of Boston, in the United States of America.

2036. And to EDWARD BLAKE, of 61, Tachbrook Street, Pimlico, in the county of Middlesex, for the invention of "Improvements in apparatus for and in treating china-grass rhea, fibre mudar, and other similar vegetable fibres."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of September, 1859.

2049. To THOMAS HOOMAN, of 490, Oxford Street, Middlesex, for the invention of "An improved stock, cravat, or neck muffler or wrapper."

2051. To JOSEPH NICHOLSON, of Chaple House, Hensingham, Whitehaven, in the county of Cumberland, Agricultural Implement Maker, for the invention of "Improvements in horse rakes."

2053. To JOSEPH THORLEY, of Newgate Street, in the city of London, for the invention of "An improved preparation of food for cattle and horses."

2055. And to THOMAS WEBSTER ALLSOPP, of Castle Donington, in the county of Leicester, Gas Lamp and Chandelier Manufacturer, Bell and Brass Founder, for the invention of "Improvements in portable gas apparatus."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of September, 1859.

2057. To WILLIAM ROSCOE, of Croxteth Hall, West Derby, in the county of Lancaster, Agent, for the invention of "An improved agricultural implement or machine for distributing guano and other manures upon land."

2059. To JOHN GAY NEWTON ALLEYNE, of Butterley Iron Works, Alfreton, in the county of Derby, for the invention of "Improvements in the manufacture of wrought-iron beams."

2061. To Frederick Carpenter, of Porter Street, in the city of Westminster, Machinist, for the invention of "An improved apparatus for cutting tobacco."

2063. And to Sigismund Cornely, of Lime Street, in the city of London, for the invention of "An improvement in the permanent way of railways."—A communication from abroad by Messrs. Lezaire and Pauwels, of Valenciennes, France.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of September, 1859.

2065. To Henry Oliver Robinson, of Westminster, in the county of Middlesex, Civil and Mechanical Engineer, for the invention of "Improvements in machinery or apparatus for the manufacture of sugar."

2067. And to Joseph Pollock, of Leeds, in the county of Yorkshire, Gentleman, for the invention of "Improvements in the manufacture of beds, couches, and invalid or other carriages."

On both their petitions, recorded in the Office of the Commissioners on the 10th day of September, 1859.

2071. To Thomas Gregory Gutch, of Southampton, in the county of Hants, Stationer and Printer, for the invention of "The improvement of copying books, for order books, and letter books, and so forth, as the improvement can be applied."

2075. To Floride Heindryckx, of Brussels, in the kingdom of Belgium, Engineer, for the invention of "Improvements applicable to railways or tramways."

2077. To Frederick Versmann, and Alphons Oppenheim, of Bury Court, St. Mary Axe, in the city of London, Analytical Chemist, for the invention of "Improvements in the treatment of various substances, so as to render the same non-inflammable."

2069. To Fréderic Newton Gisborne, of No. 3, Adelaide Place, in the city of London, Engineer, and Lazarus Simon Magnus, of the same place, Merchant, for the invention of "Improvements in telegraph cables."

2081. To Henry George Collins, of McLean's Buildings, New Street Square, in the city of London, for the invention of "Improvements in producing printing surfaces on stone, metal, and other materials capable of being employed in printing, in the manner of lithographic stones, also in the production of printing plates and surface printing blocks, and in transfer inks."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of September, 1859.

2085. To George Montefiore Levi, of Val Benoit, Liege, in Belgium, Civil Engineer, for the invention of "Improvements in washing and separating ores and substances of different specific gravities, and in apparatus for that purpose."

2087. To John Grainger, of Birmingham, in the county of Warwick, Gun Maker, for the invention of "Improvements in breech-loading fire-arms, and in moulds for making projectiles."

2089. And to William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved apparatus for drying paper and other fabrics."—A communication from abroad by Edward L. Perkins, of Roxbury, in the county of Norfolk and state of Massachusetts, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 13th day of September, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

22nd September, 1859.

719. John Davis, of No. 18, Frith Street, Soho, in the county of Middlesex, Professor of Music, for an invention of "Improvements in musical instruments."—Dated 22nd March, 1859.

724. John Talbot Pitman, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention of "Improvements in springs for rail road cars, and for other purposes."—A communication from abroad by John J. Fields, of Brooklyn, in the state of New York, one of the United States of America.—Dated 22nd March, 1859.

725. Edward Maynard, of the city of Washington, in the district of Columbia and United States of America, for an invention of "Improving breech-loading fire-arms."—Dated 22nd March, 1859.

726. Samuel Newington, of Ridgway, Ticehurst, in the county of Sussex, M.D., for an invention of "Improvements in apparatus for distributing seeds and manure."—Dated 22nd March, 1859.

728. William Pickford Wilkins, of Ipswich, in the county of Suffolk, Engineer, for an invention of "Improvements in the arrangements of valves and in their application to steam engines."—Dated 22nd March, 1859.

731. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in fire-arms and ordnance, and in projectiles and apparatuses to be employed therewith."—A communication from Charles Rochaz, residing at Paris.—Dated 22nd March, 1859.

732. Jacobus Tyssen, of Rotterdam, in the kingdom of Holland, Mariner, for an invention of "An improved apparatus for indicating the speed of ships and other vessels."—Dated 22nd March, 1859.

733. Charles A. Watkins, of the firm of Hamilton and Co., Brush Manufacturers, of Greek Street, Soho Square, for an invention of "Improvements in the manufacture of brushes."—Dated 22nd March, 1859.

735. Samuel Oram, of No. 137, Fleet Street, in the city of London, for an invention of "Improvements in pipes or tubes for generating and superheating steam."—Dated 23rd March, 1859.

738. William Middleship, of Grove Terrace, South Grove, Mile End, in the county of Middlesex, Officer of Her Majesty's Customs, for an invention of "Improvements in propelling vessels."—Dated 23rd March, 1859.

740. Benjamin Browne, of No. 52, King William Street, London Bridge, in the city of London, and county of Middlesex, Civil Engineer, and Patent Agent, for an invention of "A new method of working or operating switches and signals on railways by improved apparatus for that purpose."—A communication from abroad by Victor Armand Prou, of Rue de Sèvres, Paris, in the empire of France.—Dated 23rd March, 1859.

742. George Neal, Gas Chandelier and Fitting Manufacturer, of Great Charles Street, Birmingham, in the county of Warwick, for an invention of "Certain improvements in apparatus or fittings connected with the burning of gas for regulating and economizing its consumption."— Dated 23rd March, 1859.

746. Frederic Tillett, of Banner Street, in the parish of St. Luke's, in the county of Middlesex, Splint Cutter, for an invention of "Improvements in machinery for cutting splints for matches."—Dated 23rd March, 1859.

747. William Garforth and James Garforth, both of Dukinfield, in the county of Chester, Engineers, for an invention of "A certain improvement in metallic pistons."—Dated 24th March, 1859.

748. William Edward Wiley, of 34, Great Hampton Street, Birmingham, in the county of Warwick, Gold Pen and Pencil Case Manufacturer, for an invention of "Improvements in the manufacture of boxes or cases used for holding needles, pens, matches, pencils, and for other like purposes."—Dated 24th March, 1859.

750. Frederick Edward Sharp, of 3, Gloucester Terrace, Blackheath, in the county of Kent, for an invention of "Improvements in machinery for corking bottles."—Dated 24th March, 1859.

752. Charles Sanderson, of Sheffield, in the county of York, Merchant, for an invention of "Improvements in preparing, tempering, and covering or coating thin strips or sheets of steel."—Dated 24th March, 1859.

756. Richard Baker, of Liverpool, in the county of Lancaster, Watchmaker, for an invention of "Improvements in chronometers, watches, and other timekeepers."—Dated 25th March, 1859.

762. William Redgrave, of Tavistock Street, in the county of Middlesex, Tailor, for an invention of "An improved pillow travelling cap."—Dated 26th March, 1859.

763. Elizabeth Steane, of Manor Rise, Brixton, in the county of Surry, Widow, for an invention of "An improved means or apparatus for preventing candles dropping or guttering."—Dated 26th March, 1859.

765. Mark Firth, of the firm of Thomas Firth and Sons, of Sheffield, in the county of York, Steel Manufacturers and Merchants, for an invention of "Improvements in machinery for grinding saws and flat plates of steel."—A communication from E. T. Jones, residing in Montreal.—Dated 26th March, 1859.

766. George Naylor, of No. 7, Durnford Street' East Stonehouse, in the county of Devon, a Lieutenant in the Royal Marines Light Infantry, for an invention of "An apparatus for measuring and indicating the distance passed over or travelled by the same."—Dated 26th March, 1859.

767. John Campbell Evans and Peter Soames, of the Morden Iron Works, East Greenwich, in the county of Kent, Engineers, for an invention of "Improvements in apparatus for superheating steam."—Dated 26th March, 1859.

771. Joseph Buckley, of Horwich, in the county of Lancaster, Calico Printer, Orlando Greenhalgh, of the same place, Manager, and Robert Hutchinson, of the same place, Mechanic, for an invention of "Improvements in machinery or apparatus for printing woven fabrics."—Dated 26th March, 1859.

773. To Charles Frédéric Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "An improved diving apparatus."—A communication from Philippe Bigard, residing in Lyons, in the empire of France.—Dated 28th March, 1859.

774. James Buckingham, of Westmoreland House, Walworth Common, in the county of Surrey, Civil Engineer, for an invention of "Improvements in machinery or apparatus employed in drawing fibrous substances."—Dated 28th March, 1859.

779. Charles Lewis Roberts, of Clerkenwell, in the county of Middlesex, for an invention of "Improvements in cigars."—Dated 29th March, 1859.

781. John William Kelly, Civil Engineer, of the town of Ennis, in the county of Clare, Ireland, for an invention of "Improvements in gas burners."—Dated 29th March, 1859.

785. Richard Searle, of Woodford Wells, in the county of Essex, Gentleman, for an invention of "Improvements in apparatus used for transmitting signals by electricity for telegraphic purposes, and in the construction of telegraphic cables."—Dated 29th March, 1859.

786. Isaac Spight, of Glandford Briggs, in the county of Lincoln, Ironfounder and Agricultural Machine Maker, for an invention of "Improvements in horse hoes."—Dated 29th March, 1859.

787. Thomas Taylor, of Vere Street, in the county of Middlesex, Chemist, for an invention of "Improved means of giving increased strength to paper."—Dated 29th March, 1859.

788. Henry Potter Burt, of Charlotte Row, Mansion House, in the city of London, for an invention of "Improvements in apparatus for preparing and preserving timber."—Dated 29th March, 1859.

789. Henry Moss, of 62, Brill Row, Somers Town, in the county of Middlesex, Boot and Shoe Manufacturer, and Thomas West, of 5, Jewin Street, in the city of London, Machinist, for an invention of "A machine for the cutting of leather for every purpose, and cutting cloths, linen, and other fabrics and materials." — Dated 29th March, 1859.

889. James Hadden Young, of 66, Great College Street, Camden Town, London, county of Middlesex, for an invention of "Improvements in setting up (composing) and distributing types."—Dated 9th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 21st September*, 1859, *inclusive.*)

19th September.

2235. James Cottrill, of Studley, in the county of Warwick, Needle Maker, for an invention of "Improvements in machinery to supersede hand labour in the operation of filing." — Dated 24th September, 1856.

20th September.

2315. Peter Armand le Comte de Fontainemoreau, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent, for an invention of "Improvements in the construction of roofs of buildings, which improvements are applicable to the construction of arches of bridges."—A communication.— Dated 3rd October, 1856.

21st September.

2239. William Beatson, of Chemical Works, Rotherham, for an invention of "Improvements in puddling iron."—Dated 24th September, 1856.

2251. John James Russell, of Wednesbury, Patent Tube Manufacturer, and Joseph Bennett Howell, of Sheffield, Steel Manufacturer, for an invention of "Improvements in the manufacture of cast steel tubes."—Dated 25th September, 1856.

Erratum in Journal of 16th September.

2072. For "Dabbine" read "Dabbène."

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The following are in the press:—

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PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

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No. 598. TUESDAY, SEPTEMBER 27, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1207. JOHN MAY MUNRO, of the city and county of Bristol, Agricultural Machine and Implement Manufacturer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent, for the invention of "Improvements in the manufacture and arrangement of chain harrows."

As set forth in his petition, recorded in the said office on the 14th day of May, 1859.

1224. And ALEXANDRE RÉNÉ LANDRE, POLYDORE GRAS, and ANTOINE LOUIS AUGUSTE BOUCHERIE, all of the city of Marseilles, in the empire of France, Merchants, trading under the firm of Landre, Gras, and Co., have given the like notice in respect of the invention of "Distilling schist or boghead coal and other minerals for lighting."

As set forth in their petition, recorded in the said office on the 17th day of May, 1859.

1231. And EDWARD CHARLESWORTH, of No. 1, De Grey Street, York, and No. 3, King William Street, Strand, in the county of Middlesex, has given the like notice in respect of the invention of "Counteracting the recoil of small fire arms, and lessening the risk of injury arising from bursting of the same."

1238. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in heating."—A communication from abroad by Stanislas Lebobe, of Paris.

As set forth in their respective petitions, both recorded in the said office on the 18th day of May, 1859.

1241. And GEORGE WALKER, of Old Nickols Street, Church Street, Shoreditch, in the county of Middlesex, has given the like notice in respect of the invention of "Certain improvements in swing looking-glasses."

1247. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the roasting or calcining of ores, applicable also to the oxidising of other substances."—A communication from abroad by Professor Jean François Persoz, of Paris, in the empire of France.

As set forth in their respective petitions, both recorded in the said office on the 20th day of May, 1859.

1264. And GEORGE BURNELL, of East Hoathly, in the county of Sussex, Gentleman, has given the like notice in respect of the invention of "An improved preparation or medicine for the cure of ague."

1269. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Editor of the Mechanics' Magazine and Patent Agent, has given the like notice in respect of the invention of "Improvements in axles and in fitting wheels thereto."—A communication from abroad by M. Masson, residing at Paris.

As set forth in their respective petitions, all recorded in the said office on the 23rd day of May, 1859.

1277. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Atmospheric apparatus for the submarine transport of blocks of stone, and for raising sunken vessels."—A communication from abroad by T. Bandier, of Paris, in the empire of France.

1279. And GILBERT DANIEL JONES, of Clerkenwell, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in mills or machinery for grinding, reducing, and pulverizing."

1284. And ANTOINE JOSEPH SAX, trading under the firm of Adolphe Sax, of Paris, France, Musical Instrument Maker, has given the like notice in respect of the invention of "Improvements in wind musical instruments."

As set forth in their respective petitions, all recorded in the said office on the 24th day of May, 1859.

1294. And JOHN MALLETT, of Barnstaple, in the county of Devon, Watch Manufacturer, Silversmith, and Jeweller, has given the like notice in respect of the invention of "An improved regulator for watches, portable clocks, and time pieces."

1296. And JAMES HOWARD, of Bedford, Agricultural Implement Maker, has given the like notice in respect of the invention of "An improved construction of horse-rake."

As set forth in their respective petitions, both recorded in the said office on the 25th day of May, 1859.

1300. And HUGH WILLIAM PATRICK, of No. 4, Mill Hill Terrace, Acton, in the county of Middlesex, has given the like notice in respect of the invention of "A new substance or material to be used in lieu of ivory and other like substances."

As set forth in his petition, recorded in the said office on the 26th day of May, 1859.

1324. And MARCUS DAVIS, of 5, Lyon's Inn, Strand, in the city of Westminster, Caoutchouc Wheel Manufacturer, has given the like notice in respect of the invention of "Improvements in the construction of wheels, axles, and boxes for carriages."

As set forth in his petition, recorded in the said office on the 30th day of May, 1859.

1341. And SAMUEL CARR and GEORGE BUTTERWORTH, of the firm of Carr and Butterworth, of Leeds, in the county of York, Manufacturers, have given the like notice in respect of the invention of "Improvements in the manufacture of felted cloth, and in the machinery or apparatus employed in such manufacture."

As set forth in their petition, recorded in the said office on the 31st day of May, 1859.

1356. And SAMUEL BURY, of Manchester, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces."

1357. And SAMUEL BURY, of Manchester, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces."

1358. And WILLIAM HENRY PARKES, of Birmingham, in the county of Warwick, Manufacturer, and WILLIAM BAGNALL, of Birmingham aforesaid, Plater, have given the like notice in respect of the invention of "A new or improved ventilator for hats and other head coverings, and also for carriages."

1360. And JEAN BAPTISTE PASCAL, of Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "Improvements in hot-air engines."

As set forth in their respective petitions, all recorded in the said office on the 2nd day of June, 1859.

1361. And JOHN WILSON, of St. Helen's, in the county of Lancaster, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of carbonate of soda."

As set forth in his petition, recorded in the said office on the 3rd day of June, 1859.

1390. And ROBERT BARCLAY, of Bucklersbury, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of paper from which writing or other inks cannot be expunged or extracted without detection."

As set forth in his petition, recorded in the said office on the 7th day of June, 1859.

1406. And THOMAS GREENSHIELDS, of No. 11, Little Titchfield Street, London, has given the like notice in respect of the invention of "Improvements in purifying gas and obtaining ammoniacal and other salts."

As set forth in his petition, recorded in the said office on the 10th day of June, 1859.

1442. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new siphon meter for liquids."—A communication from abroad by A. Grenet, of No. 10, Rue Mogador, Paris, in the empire of France.

1449. And THOMAS EDWARD TALLENT, of the Southwark Bridge Road, Southwark, county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of leather, and in machinery for that purpose."

As set forth in their respective petitions, both recorded in the said office on the 16th day of June, 1859.

1461. And DAVID DEAS, of Carneil, in the county of Fife, North Britain, Farmer, has given the like notice in respect of the invention of "Improvements in reaping machines."

As set forth in his petition, recorded in the said office on the 17th day of June, 1859.

1467. And JOZÉ LUIS, of the British and Foreign Office for Patents, of No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new system of windmill." — A communication from abroad by Bernard Zacharie Lethiers, No. 10, Rue Mogador, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 18th day of June, 1859.

1511. And Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in the manufacture of artificial sand-stone, bricks, tiles, and similar articles."—A communication from abroad by Léon and Edouard Pavin de Lafarge, Merchants, residing at Viviers, département de l'Ardêche, in the empire of France.
As set forth in his petition, recorded in the said office on the 23rd day of June, 1859.

1519. And William Clark, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in sewing machines."—A communication from abroad by Mr. James Snow Goodridge, of No. 29, Boulevart St. Martin, Paris, Merchant.
As set forth in his petition, recorded in the said office on the 24th day of June, 1859.

1549. And William John Thompson Williamson, of 37, Gerrard Street, Soho, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in gas burners."
As set forth in his petition, recorded in the said office on the 29th day of June, 1859.

1594. And William Knapton, of Albion Foundry, Monkbar, in the county of York, and Adam Aitchison, of Knottingley, in the county of York, have given the like notice in respect of the invention of "Improvements in the manufacture of gas."
As set forth in their petition, recorded in the said office on the 5th day of July, 1859.

1602. And Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "An improved mode of manufacture of wheel tires for railway carriages and engines, by means of the herein described apparatus."—A communication from abroad by Duplay Vidal Lachaise and Co., No. 10, Rue Mogador, Paris, in the empire of France.
As set forth in his petition, recorded in the said office on the 6th day of July, 1859.

1669. And John Bailey, of Manchester, in the county of Lancaster, Manager, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for stretching woven fabrics."
As set forth in his petition, recorded in the said office on the 14th day of July, 1859.

1748. And Alfred Sidebottom, of Crown Street, Camberwell, in the county of Surrey, Consulting Chemist, has given the like notice in respect of the invention of "Improvements in the mode or process of separating animal fibre from mixed fabrics of animal fibre and cotton, or other vegetable fibre."
As set forth in his petition, recorded in the said office on the 28th day of July, 1859.

1807. And Nathaniel Berry, of Paris, in the empire of France, Merchant, has given the like notice in respect of the invention of "An improvement in the manufacture of knitted fabrics."—A communication from William Benjamin, residing in New York.
As set forth in his petition, recorded in the said office on the 5th day of August, 1859.

1870. And William Green, of Kidderminster, William Fawcett, of Wolverley, and Francis Best Fawcett, of Wolverley, all in the county of Worcester, Carpet Manufacturers, have given the like notice in respect of the invention of "Improvements in the manufacture of rugs."
As set forth in their petition, recorded in the said office on the 13th day of August, 1859.

1958. And Emil Rettig, of New Cross, in the county of Kent, Merchant, has given the like notice in respect of the invention of "Improvements in the form and construction of anchors."—Partly a communication from abroad by Ferdinand Martin, of Marseilles, in the French empire, Merchant.
As set forth in his petition, recorded in the said office on the 27th day of August, 1859.

1972. And George Collier, of No. 23, Elizabeth Street, Eaton Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in chairs and couches."

1974. And Joshua Field, of Lambeth, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for superheating steam."
As set forth in their respective petitions, both recorded in the said office on the 30th day of August, 1859.

1987. And Henry Higgin, of Bow, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for cutting and preparing match splints."

1990. And Edwin Ellis, of St. Ann's Well Road, Nottingham, has given the like notice in respect of the invention of "Improvements in finishing silk fabrics made on bobbin net and warp frames."
As set forth in their respective petitions, both recorded in the said office on the 31st day of August, 1859.

2065. And Henry Oliver Robinson, of Westminster, in the county of Middlesex, Civil and Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for the manufacture of sugar."
As set forth in his petition, recorded in the said office on the 10th day of September, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patent on which the Stamp Duty of £50 has been Paid.

(*To 24th September*, 1859.)

2265. DAVID LAW, of Glasgow, in the county of Lanark, North Britain, and JOHN INGLIS, of the same place, Ironfounders, for an invention of "Improvements in moulding or shaping metals."—Dated 27th September, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 24th September*, 1859, *inclusive.*)

23rd September.

264. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in apparatus for manufacturing gas and coke."—A communication.—Dated 6th October, 1852.

24th September.

11. THOMAS WOOD GRAY, of Warkworth Terrace, Commercial Road, Limehouse, in the county of Middlesex, for an invention of "Improvements in cocks and valves."—Dated 1st October, 1852.

12. THOMAS WOOD GRAY, of Warkworth Terrace, Commercial Road, Limehouse, in the county of Middlesex, for an invention of "Improvements in steam-engines."—Dated 1st October, 1852.

70. ROBERT LAKIN, of Ardwick, in the county of Lancaster, Machinist, and WILLIAM HENRY RHODES, of Gorton, in the said county of Lancaster, Mechanic, for an invention of "Improvements in machines for spinning and doubling cotton and other fibrous substances."—Dated 1st October, 1852.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 6th September, 1859, and each bearing that date.

No. 25,310. HENRY W. ADAMS, of Brooklyn, N. Y., for an "Improvement in lamps."

"I claim constructing the upper end of the wick tube B, with elevated ends *a*, *a*, so as to enclose the ends of the wick C, and prevent said ends from burning too high when the central part is sufficiently elevated above the central part *b* of the wick tube to be allowed to burn, substantially as and for the purpose herein set forth."

No. 25,311. WM. ADAMSON, of Philadelphia, Pa., for an "Improved apparatus for making decoctions."—Ante-dated 6th April, 1859.

"I claim the conical roller arranged within the caldron A, when the same is used for the purpose of thoroughly intermixing the ingredients to be extracted during the process of boiling, as herein set forth."

No. 25,312. THOS. D. AYLESWORTH, of Ilion, N. Y., for an "Improvement in the cutting apparatus of harvesters."

"I claim a cutting apparatus for harvesting machines, composed substantially of the cutters *c* and guards *b*, when constructed and operating together without any motion, except that of being advanced or drawn over a field, substantially as described."

No. 25,313. H. H. BAKER, of New Market, N. J., for an "Improved tonguing and grooving machine."

"I claim the employment of flanged feed rollers, having a lateral play and acted upon by suitable springs in combination with the fixed intermediate rings or flanges P, P^1, or their equivalents, when arranged and operating, essentially in the manner and for the purpose herein specified."

No. 25,314. E. O. BAXTER, of Foreston, Ill., for an "Improvement in railroad excavators."

"I claim the arrangement and combination of adjustable timbers or arms B, C, plow and excavator, as above described, when the same are employed in the manner herein above shown, for the purpose of loosening and removing the earth, and keeping the ditch free from the wash of the slopes on railroads."

No. 25,315. JEHU BRAINERD and WM. H. BURRIDGE, of Cleveland, O., for an "Improvement in tanning."

"We claim the use of the herein-described compound for tanning, consisting of a solution of the herein-named mineral salts in mixture with a solution of tanning, either with or without the addition of aloes."

No. 25,316. LEOPOLD RICHARD BREISACH, of New York, N. Y., for an "Improvement in making gas from wood."

"I claim the process of manufacturing illuminating gas from wood by distilling the same in two retorts of varying temperatures, as set forth, one of which retorts is charged with charcoal, varying in amount according to the conditions indicated, the whole process being conducted, as herein set forth."

No. 25,317. ARCHIBALD CAMERON, of Charleston, S. C., and DAVID MATTHEW, of Philadelphia, Pa., for an "Improvement in railroad wheels."

"We claim the peculiar construction of car wheels, having elastic curved arms B with chilled cast tread A and cast hub C, forming one combined wheel, substantially as herein-set forth."

No. 25,318. CHAS. W. CLEWLEY, of Providence, R. I., for an "Improvement in machines for making watch rims, &c."

"I claim the combination of the male and female plungers, substantially as described, for the purposes set forth."

No. 25,319. R. W. DAVIS and DANIEL DAVIS, of Yellow Springs, O., for a "Machine for printing the address on newspapers, &c."

"We claim, 1st, the arrangement of wooden blocks (*r*) of suitable size for a single address, with indented letters in their faces, and attached by means of small tacks, or equivalent, to a flexible band or belt in close compact columns, and operated substantially as described. 2. The use of the triangular stationary bed piece (*l*), over which the belt slides by means of belt pulley (*p*), and regulated and adjusted by means of lever (*n*), substantially in the manner and for the purpose set forth."

No. 25,320. JEAN JUSTIN ALBERT DE BRONAC and AUGUSTIN JOSEPH MARTIAL DEHERRYPON, of Paris, France, for an "Improvement in treating metallic ores with spongy iron."

"We claim the treatment of metallic sulphurets or other ores or metallic bodies with spongy iron, for purposes sub-

stantially as herein set forth, by the combination of the several processes herein specified, in the order stated, viz., firstly, pulverizing the ore and the spongy iron separately. Secondly, mixing the two powders in definite proportions. Thirdly, compressing the mixed powders into the form of cakes or small bricks; and, fourthly, treating the thus prepared ores, in suitable furnaces, as herein described."

No. 25,321. R. Densmore, of South Haven, Mich., for an "Improved machine for sawing staves."

"I claim, 1st, surrounding the stationary drum B with a series of saws, all hung in one gate, and having the same movement, in combination with the rotating table C, for the purposes and in the manner represented and specified. 2nd, I claim, in combination with the rotary table and drum B, the sliding carriages, when the same are arranged radially around said drum, and operated automatically, to feed the bolts up against the drum B, for the purposes and in the manner herein specified. 3rd, I claim the rolling spring guides P, in combination with the drum B, for discharging the staves from the machine, after they have been sawed, as set forth."

No. 25,322. Chas. A. Desobry, of Plaquemine, La., for an "Improvement in bagasse furnaces."

"I claim the combination of the upright air chamber D, having a vertical partition wall *a*, and the system of ducts E, E, F, G, and H, and the damper or shutter I, the whole applied in connection with the fire chamber and the flue C, or its equivalent, substantially as herein described."

No. 25,323. Hugh T. Douglas, of Zanesville, O., and John Cooper, of Mount Vernon, O., for an "Improvement in portable evaporating apparatus."

"We claim the combination of the diving flue H, I, the valves E^1, F^1, and *i*, and the damper J, when these several parts are arranged in relation to the evaporating pan, and operating in the manner substantially as set forth."

No. 25,324. M. D. Dubois, of Newburgh, N.Y., for a "Roofing cement."

"I claim a composition formed of the ingredients or substances compounded in the proportions and in the manner as herein specified, for the purpose set forth."

No. 25,325. Lewis Duvall, of Big Spring, Ky., for an "Improvement in boots."

"I claim the within described method of cutting the piece of leather or other suitable material A, and uniting the same with the gore B, so that when it is folded in the lines *b*, b^1, and *f*, f^1, and if the gore is brought in the proper position, said peace A, together with the gore, assumes the required shape of the upper of a boot, substantially as specified."

No. 25,326. Wm. F. Edson, of Philadelphia, Pa., for an "Improved machine for cutting and finishing shoe heels."

"I claim the combination of the movable post F, the former H (or the upper of the shoe) the guide K, and the cutter wheel D, or an emery or burnishing wheel, with the hand lever G, bow guide O, springs N, N, and radius bar J, acting as herein-before substantially set forth, for cutting or shaping, smoothing and burnishing the heels of shoes, either before or after they are fastened to the shoe."

No. 25,327. Benjn. G. Fitzhugh and McClintock Young, jr., of Frederick, Md., for an "Improvement in automatic rakes for reaping machines."

"We claim the locating of an automatic sweep rake, at the rear left hand or outside corner of the platform, when said rake has a rising and falling motion that will admit of its passing over the outside division board or fence, and then drop into or onto the extreme outer end of the platform, and sweep it off the cut grain, substantially as described."

No. 25,328. Thos. G. Gardner, of Mount Pulaski, Ill., for a "Foam collector for steam boilers."

"I claim fitting a boiler with one or more plates, so applied as to present inclined surfaces above the surface of the water, with one or more outlets *b*, *b*, for steam and foam at the highest part of the said plate or plates, and as to provide a receptacle for foam above the said plate or plates, substantially as described, and to operate substantially as herein set forth."

No. 25,329. Edwd. Haeckel, of Cincinnati, O., assignor to Haeckel and Co., of same place, for an "Improved apparatus for mashing."

"I claim the described combination and arrangement of the central shaft C, and satellite shafts N, the whole being armed with beaters Q, and rotated simultaneously, substantially in the manner and for the purpose set forth."

No. 25,330. E. H. Hancock, of Augusta, Geo., for an "Improvement in flood gates."

"I claim the combination of the flood or dam gate C, tilting trough D, and the draining structure A, B, or its equivalent, substantially as and for the purpose herein set forth."

No. 25,331. Jason W. Hardie, of New York, N.Y., for an "Improvement in sewing machines."

I claim, first, the 'method of making a 'knot stitch' herein described, namely, by taking the needle thread at the back of the needle (or at the side opposite to the position of the bobbin), and first doubling it upon itself around, and then looping it over the bobbin thread, substantially as specified. Second, I claim the employment of two hooks *h*, *h*, acting in opposite directions, when they take the thread at the back of the needle (or at the side opposite to the position of the bobbin) for the purpose of forming either the knot stitch or the ordinary shuttle stitch, by simply reversing the motion of the driving shaft, as herein set forth. Third, I claim making the feed eccentric *i*, self-adjusting by means of the loose sleeve *n*, slot *v*, and pin or stop i^4, so that the feeding shall take place during the descent of the needle, whichever way the driving shaft may be turned as herein described."

No. 25,332. Hiram H. Herrick, of East Boston, Mass., for an "Improved carpet sweeper."

"I claim, 1st, providing the end of the box with a groove as from *x* to *x*, when the same is used in connection with the flaring brush on the end of the shaft F, substantially as and for the purpose herein specified. 2nd, dividing the box in two parts, and providing each with a partition dividing the bottom of the box in two parts, through which the brushes protrude, and providing these parts of said bottom with flanges which hold the dirt, the several parts being connected and arranged together, substantially in the manner herein set forth."

No. 25,333. Kelsey Hazen, of Brooklyn, N. Y., for an "Improved amalgamator."

"I claim, compelling the water having the particles of gold in suspension, to flow within a certain small distance of the heated mercury, under conditions, substantially as herein set forth. I also claim, in connection with the above, the employment of a series of vibrating agitations and scrapers P, acting in the space under E, and of an adjustable gate G, for regulating the facility of egress of the least perfectly suspended particles, when combined and arranged, substantially as and for the purposes herein set forth."

No. 25,334. Iris Hobson, of Stout's Grove, Ill., for an "Improvement in mole ploughs."

"I claim the combination of a ditching plow beam, having a horizontal joint forward of the mole and colter, with a rod, arranged over the top of said joint, and with a horizontal adjusting and stop plate, substantially as set forth."

No. 25,335. Lewis G. Hoffman, of Waterford, N. Y., for an "Improved door bolt."

"I claim the combination of a common door bolt, with a barrel containing a wheel, with an arm acting on a slot in the bolt, so that when operated by a key the door may be fastened or unfastened on the outside, the whole being so constructed and arranged, as not to interfere with the ordinary mode of using the bolt on the inside.

No. 25,336. Lorenzo Holtslander, of Oberlin, O., for an "Improvement in marine propellers."

"I claim the device herein described, for changing valve seats, as applied to water propellers, to reverse the motion of vessels or boats. And also, the combination of the small forward pipes (*p*, *p*, *p*, *p*,) with the reservoir (R, *v*,) substantially as described."

No. 25,337. Geo. Hutchison, of Alleghany, Pa., for an "Apparatus for printing the address on newspapers, &c."

"I claim, first, the inclined hopper (*j*), with the slides or guides (*m* and *n*), in combination with the ways (*k*,) and

conveyors (*g*), on the belt (*f*), as herein described and for the purpose set forth. Second, the use of a metallic belt, furnished with the conveyors (*g* and *h*), as herein described and for the purpose set forth. Third, the arrangement of the pulleys (*d* and *e*), the belt (*f*), press roller *p*, and inking roller (4), as herein described and represented. Fourth, the use of the lug (*y*) on the end of the type frame when used in connection with the notch (*o*) in the conveyor (*h*), as herein described, and for the purpose set forth."

No. 25,338. Demase Lamoureux, of New York, N.Y., for an "Improvement in parlor grates."

"I claim, 1st, so constructing the grate that the fuel box and the ash pit are distinct from and independent of the bars, and capable of being removed whilst the bars remain undisturbed, thereby enabling me to effect the removal of the ashes and cinders, with much less trouble than by the ordinary mode, and thereby keep the apartment free from the dust and dirt, which are inseparable from the common method of removal as herein-before more fully described. 2nd, the combination of the crank L, the rod I, and the movable bottom E of the fuel box, constructed and arranged as herein-before described, by which an easy and convenient means of giving a reciprocating horizontal circular motion of the grate bottom is secured, without the necessity of cutting an opening in front for the passage of an arm, by which to vibrate the grate, substantially as described, and for the purpose set forth. 3rd, the arrangement in a parlor grate of the bottom grate upon which the fuel is supported in the manner described, by which it is made capable of being vibrated through the back of the fuel box upon a fixed axis placed entirely back of the space devoted to fuel, the wings of said bottom grate being so extended as to cover or compensate for the necessary vibration which is made into open space back of the fire box as set forth."

No. 25,339. Pierson Leffel and J. H. Mulholland, of Springfield, O., for an "Improved method of centering in watchmakers' lathes."

"We claim, 1st, a vibrating mandrel arranged within a socket or hollow spindle in such manner that its inserted end may fit closely within said socket, and its outer end allowed to vibrate, substantially as described for the purposes set forth. 2nd, in combination with the vibrating mandrel (D), we claim the rocking collar (*f*), spring (*e*), key (*k*), and nut (*j*), all constructed and arranged to operate substantially as described for the purposes set forth."

No. 25,340. Hosea Lindsey, of Ashville, N.C., for an "Improved submerged pump."

"I claim the arrangement of the short reciprocating piston rod E, open pistons F, F, sliding ring valves G, G, cylinder B, B^1, having a conducting pipe D, with the chains H, and brake I, in the manner and for the purpose herein set forth."

No. 25,341. Geo. M. Lonacre, of New Orleans, La., for an "Improvement in steam pans for clarifying sugar."

"I claim in combination with the pans, the relief valve V, and the cheek valve *t*, when arranged and operated as or substantially as and for the purpose herein set forth."

No. 25,342. Justus R. Loomis, of Winsted, Conn., for an "Improvement in lamps."

"I claim the arrangement of the cylindrical corrugated skirting J, perforated tubes G. adjustable radiating wires I, I^1, in the manner as and for the purpose described."

No. 25,343. Edward M. Manigle, of Philadelphia, Pa., for an "Improvement in stoves."

"I claim the arrangement of the series of distinct or uncommunicative hollow open air chambers (*f*, *f*), or their equivalents, in combination with the cross piece of the top plate (B), of a cooking stove substantially in the manner and for the purpose set forth and described, and this I claim whether the said cross piece (A), be either movable or stationary in the said top plate."

No. 25,344. Alvin C. Mason, of Springfield, Vt., for an "Improved machine for wiring the joints of clothes pins."

"I claim, first, the intermittingly rotating pliers E, E, in connection with a clamping device formed of the jaws *l*, recess a^*, and lever R, or their equivalents, and shears L, L, arranged to operate substantially as and for the purpose set forth. Second, in combination with the pliers E, and shears L, and clamping device, the sliding forks g^1, arranged for joint operation, as set forth. Third, the particular manner of opening and closing the pliers E, E, and operating the arbors D, to wit, by means of the sliding cones F, in connection with the springs *f*, and permanent bosses *g*, on the arbors D, whereby the jaws of the pliers are opened and closed, and the arbors D, shifted by a very simple mechanism."

No. 25,345. Thos. J. Mead, of Port Byron, N.Y., for an "Improvement in brakes for railroad cars."

"I claim the combined use of the 'U' shaped yoke, the brake bars, and the short brake blocks, for the purpose of adapting the brake to a simple lever, that acts directly upon it, as herein stated."

No. 25,346. Wm. Mosher and Isaac H. Mosher, of Green, N.Y., for an "Improved machine for bending wagon tire."

"We claim the clutch or clasp, to hold the end of the bar, in combination with the former being made three fourths of the circle, and the arrangement of the lever for operating as specified, and for the purposes as set forth."

No. 25,347. Jacob Parker, of St. Louis, Mo., for an "Improvement in trunks."

"I claim, firstly, forming the lid of the trunk in the shape of a semi-cylinder, as specified, for the purposes set forth. 2nd, the impervious box *g*, or sponge carrier, arranged in the tray, as described. 3rd, the peculiar formation of the division boards *n*, *n*, in such manner, that they will come down onto the rim of a gentleman's hat, placed in the middle box, as herein-before specified."

No. 25,348. Henry Pennie, of Buffalo, N.Y., for an "Improvement in bits for cutting washers."

"First, I claim the arrangement of the cutters D and D, upon the ends of the sliding bars C and C, and at right angles thereto, the said sliding bars passing through a mortise in the shank A, and lying parallel with each other, and one above the other, so that the cutters will work upon the same side of the centre point B, substantially as described. 2d, I claim the recess (*g*), made in the lower end of the shank A, so as to allow the inner cutter to slide close up to the point B, and thereby adapt the instrument to cutting very small washers, as set forth."

No. 23,349. James Powell, of Cincinnati, O., for an "Improved faucet."

"I claim the elastic annular valve seat S, and sliding collar O, in the described combination, with an adjustable plug valve L, of hard material."

No. 25,350. Isaac C. Shuler, of Amsterdam, N.Y., for an "Improvement in construction of sheet metal coffins."

"First, I claim the construction of a sheet metal coffin in two sections, stiffened with frames or straps, and in dividing the coffin into two sections, I do not confine myself to any particular locality on the sides for making the joint, but claim forming the joint on the side of the walls at any convenient point between the flange (*o*), and the rim (*b*), and concealing the same with an adjustable moulding. 2d, I claim the frames (*c*, *d*, *e*, *f*, *g*, *h*, and *i*), for stiffening the coffin, substantially as described, and also the scrolled rim or joint *b*."

No. 25,351. David G. Stafford, of Syracuse, N.Y., for an "Improvement in stoves."

"I claim the combination of a self-regulating valve, applied to the smoke pipe of coal stoves, and operating substantially as set forth, with an air flue, surrounding the fire box, constructed as described, the whole arranged substantially as stated."

No. 25,352. Joseph Tiberi, of St. Louis, Mo., for an "Improvement in grates."

"I claim arranging the adjustable furnace back B, in the furnace place, and in constructing and operating the same, substantially as set forth."

No. 25,353. Wm. S. Todd, of Mechanicsville, Iowa, for an "Improved joiner's clamp."

"I claim the combination of the adjustable lever F, with the frame A, and sliding block C, when the same are arranged and operated in the manner and for the purposes herein set forth."

No. 25,354. Louis Tregre, of the Parish of St. John the Baptist, La., for an "Improvement in construction of cane juice boxes."

"I claim the method of separating the pure from the impure parts of the juice, when the latter has settled to the bottom of the box, so that the pure parts can be drawn off without disturbing the impure, by dividing the one from the other by means of a movable partition valve, or its equivalent, arranged within the box, substantially as described."

No. 25,355. Edwd. A. Tuttle, of Brooklyn, N. Y., for an "Improved hot air register."

"I claim the arrangement and combination with the leaves C of the roller F, having its axis movable and traveling on a shelf G, with or without springs (*b*), as and for the purpose shown and described."

No. 25,356. Stephen D. Tucker, of New York, N. Y., assignor to R. M. Hoe, R. Hoe, and P. S. Hoe, of same place, for a "Mode of operating the fingers of printing presses."

"I claim operating the finger shaft C by means of a grooved disk E, attached thereto, and the rollers *j*, j^1, attached to a plate or proper support, so as to be respectively within and without the path of rotation of the finger shaft, substantially as and for the purpose set forth."

No. 25,357. Lemuel T. Wells, of Cincinnati, O., for an "Improvement in printing presses."

"In the described combination with stationary butments C on the ways, I claim the attachment to the bed of a closed cylinder D, its piston E, F, having a stroke relatively less than that of the bed, and acting to simultaneously condense and rarify the air at alternately opposite ends of the cylinder, as set forth."

No. 25,358. S. H. Wilder, of Grinnell, Iowa, for an "Improved method of opening valves to extinguish fire."

"I claim the arrangement, essentially as above described, of a reservoir or other means of producing pressure, combined with a system of tubes, cross tubes, and valve shafts, with valves or stopcocks, arranged as described, when used as a means of operating upon a cylinder and piston, or a wate r wheel for the purpose of starting and afterwards stopping the wheel or engine, without the intervention of any person than the one who discovers the fire. I also claim the use of gear wheel *i*, rack bar *h*, and blank wheel H, or their equivalents, arranged to move the gate of a water wheel out and in alternately by a repetition of the same motion."

No. 25,359. Wm. C. Allison, of Philadelphia, Pa., assignor to himself and John Murphy, of same place, for an "Apparatus for watering and sweeping railways."

"I claim, firstly, the horizontal perforated pipe T and T^1, and the swing pipes W, in combination with a truck having wheels, adapted to the rails of a passenger railway, the said truck carrying a tank L, and the said swing pipes being arranged and operated by the devices herein described, or their equivalents, substantially in the manner and for the purpose herein set forth. Secondly, the combination of the adjustable revolving brushes 19, with the truck, when the brushes are arranged in respect to the rails, substantially as and for the purpose specified. Thirdly, I claim in combination with the brushes any convenient number of projections 20, revolving simultaneously with the said brushes, and so arranged in respect to the rails, as to clean the grooves or corners of the treads from all obstructions."

No. 25,360. Wm. Barnes, of Troy, N. Y., assignor to Philo B. Stewart, of same place, for an "Improved feed water apparatus for steam boilers."

"I claim, first, in combination with a steam boiler A, and a close chamber B, placed higher than or at the same height as the boiler, and having communication therewith by a steam passage *e*, and a water passage *f*, each provided with a stopcock or valve, substantially as herein described, a close receiver C, located lower than the boiler, and having a steam passage from the boiler and a water prssage into the chamber B, substantially as herein set forth, for use in raising water from a place lower than and introducing it into the bolier while the boiler is charged with steam. And I also claim, in combination with the matter above claimed, making the receiver O in two parts, Y and X, with the steam pipe C, from the boiler A, and the cold water supply pipe *b*, both entering one part, and the hot water supply pipe *a* entering a water pipe *d* to the chamber B, leaving the other part, and with the two parts of the receiver, connected together by a passage *h* substantially as and for the purpose herein set forth."

No. 25,361. Delectus Durfey, of Fort Seneca, O., assignor to himself, L. A. Lyon, and H. P. Tyler, of Clarksfield, O., for an "Improvement in the mode of applying power to machinery."

"I claim the combination of the treadle levers *g*, arms g^2, and spring *c*, with the grooved wheel B, and spring braces *k*, operating as described, and for the purposes set forth."

No. 25,362. N. A. Dyar, of Medford, and J. F. Augustus, of Boston, Mass., assignors to Joseph C. Tucker, of Brookline, N.H., for an "Improved compound illuminating fluid."

"We claim the combination of the herein-before mentioned ingredients, for the purpose set forth, and essentially in the proportions described."

No. 25,363. Geo. Henderson, of Alleghany, Pa., assignor to himself and Geo. Hutchison, of same place, for an "Improvement in printing presses for addressing newspapers, &c."

"I claim, first, the combination and arrangement of the guide table (*g*) and pulley (*h*), the press wheel (*d*), the conveying pulley (*c*) and inking rollers (*k*), with type frame (*j*). and the open hopper, the whole being combined, arranged and constructed in the manner and for the purpose herein specified. Second, the use of the open hopper, when constructed as described and used for the purpose herein set forth. Third, the use of the pins (*o*), or their equivalent, on the type frame (*j*), for the purpose of carrying forward the papers, as herein set forth."

No. 25,364. Chas. E. Jacot, of New York, N.Y., assignor to Saltzman, Jacot, and Co., of same place, for an "Improvement in watches."

"I claim, first, constructing the bridge or plate *c*, with the curve *i*, and index 8, for the purposes, and as specified. Second, I claim constructing the bridge plate *c*, separately from, but screwed to the three quarter plate *b*, for giving access to the centre second and third wheels, without removing said three-quarter plate, as above described and shown. Third, I claim attaching the three-quarter plate *b* to the dial plate *a*, by riveting the columns 1 to the plate *b*, and inserting the screws 2, at the dial plate *a*, for the purposes and as set forth. Fourth, I claim constructing the click spring *e*, as specified, for preventing the ratchet teeth being broken, as above specified."

No. 25,365. John Martino, of Philadelphia, Pa., assignor to D. Stuart and Richd. Peterson, of same place, for an "Improvement in stoves."

"I claim the division plate L, with its damper N, the plate *k*, with its openings, and the casing J, with its wings *t*, *t*, when the several parts are arranged in respect to each other, and to the outer casing and fire-pot, as and for the purpose herein set forth."

No. 25,366. Robt. Poole, of Baltimore, Md., assignor to himself and German H. Hunt, of same place, for an "Improved forcing pump."

"I claim enlarging the areas of the inlet and exit openings, where they connect with the pump cylinders by means of the swells O. P, substantially in the manner and for the purpose set forth."

No. 25,367. Robt. Poole, of Baltimore, Md., assignor to himself and German H. Hunt, of same place, for an "Improvement in pistons of pumps."

"I claim a valve made of flexible material, hung loosely upon the piston rod, and having for its bearings the round edged wings of the nut, by which it is fastened to the piston, substantially in the manner and for the purposes herein described. I also claim, in combination with a flexible valve and winged screw nut, a piston constructed of ribs which present sharp edges to the water, while they are flat at the the end which constitutes the seat of the flexible valve, substantially in the manner and for the purpose herein described."

No. 25,368. John B. Powell, of Philadelphia, Pa., assignor to himself and G. B. Frick, of same place, for an "Improved automatic fan."

"Claim.—The spindle M. with any convenient number of cog wheels of different sizes, in combination with a similar

number of cog-wheels also of different sizes, on the crank spindle S, when the said spindle and its wheels are rendered adjustable, and are applied to and combined with the work of the automatic fan, substantially as and for the purpose herein set forth."

No. 25,369. CHAS. H. RAYMOND, of Southington, Conn., assignor to the Peck Smith Manufacturing Company, of same place, for an "Improvement in folding machines."

"I claim the arrangement of the clamp E and G, with bed piece D, and folder N, when combined with revolving gauge R, so that the width of the crimp or fold may be first gauged, and then that portion of the tin contiguous to the part intended to be folded, be first firmly clamped an held fast, and then the fold or crimp formed thereon, in th manner described, all by one simple movement of folder N and parts in connection, and without marring the tin, all in the manner fully set forth."

No. 25,370. G. W. RICHARDSON and ROBT. GLOVER, of Grayville, Ill., assignors to themselves, J. B. Williams, and W. A. Horrel, of same place, for an "Improvement in harvesting machines."

"We claim the cams *a*, cast in sections of one or more, and secured to the driving wheel by means of the bolt or screw *c*, and flange *b*, in the manner described for the purpose specified."

No. 25,371. IVES SCOVILLE, of Chicago, Ill., as signor to himself and W. H. Scoville, of same place for an "Improvement in machine for breaking stones for turnpike roads, &c."

"I claim the arrangement in the manner set forth, of the funnel-shaped hopper C, constructed substantially as described, with the two vertical cylinders A, A, constructed substantially as described, for the purpose of breaking stone for ballasting railroads, and macadamizing streets, turnpikes, &c."

No. 25,372. DANIEL H. SOLLIDAY, of Philadelphia, Pa., assignor to Edwd. H. Ashcroft, of Boston, Mass., for an "Improvement in gas burners."

"What I claim, is, the application of the conical or chambered burner A, to the main burner B, in manner and for the purpose substantially as herein-before set forth."

No. 25,373. SILAS B. TERRY, of Terryville, Conn., assignor to Silas B. Terry, jr., of same place, for a "Machine for making paper boxes."

"I claim, 1st, the pressure roller L, in connection with the rotating clamp formed of the head D, and disk *f*, arranged substantially as and for the purpose set forth. 2nd, in combination with the pressure roller L, head D, and disk *f*, the ring or band E, provided with the pins or strips *i*, the socket F, provided with the screws or pins *j*, and the guide plate G, arranged for joint operation, as and for the purpose described. 3rd, the arrangement of the pressure lever H, and sliding mandrels B, C, for the purpose specified. 4th, the employment or use of the folding device formed of the plate N, provided with the ledge *u*, and the pivoted bar *v*, when said folding device is used in connection with the pressure roller L, rotating head D, and disk *f*, for the purpose set forth."

No. 25,374. JOSEPH WESLEY, of Providence, R.I., assignor to Joseph B. Wesley, of same place, for an "Improvement in skeleton skirts."

"I claim a new article of manufacture, to wit, a skirt, having its hoops supported by tapes or straps, which are rendered adhesive by the application of caoutchouc or gutta percha, in the manner and for the purpose substantially as herein described."

RE-ISSUES.

WILLIAM S. LAVELY and JAMES M. COOPER, of Pittsburgh, Pa., assignees of Josiah Ells, of Pittsburgh, aforesaid, for an "Improvement in revolving fire-arm."—Patented 1st August, 1854.—Re-issued 6th September, 1859.

"I claim, 1st, the use of a stud in the trigger vibrating laterally, in combination with a beveled edged hammer, for the purpose of raising the hammer to full cock, and firing the piece by simply pulling the trigger, which after the discharge of the piece will regain its position for repeated action, or (as a mere modification of arrangement), the use of a stud in the hammer vibrating laterally, in combination with a bevel-edged trigger, for the purpose above specified. 2nd, the use of a bevel-edged hammer, with or without a notch in its toe and trigger, with vibrating stud, and cam for the trigger spring, constructed and arranged substantially as herein-before described for the purpose of causing the hammer, trigger, and revolving breach to assume their proper relative positions at full cock by simply pulling the trigger and retaining them in that position, and securing the breech from rotation or displacement preparatory to firing. 3rd. The notch or depression in the toe of the hammer at the point of contact of the stud and edge of the hammer, in combination with the laterally vibrating stud, for the purpose of preventing the slipping of the stud, and the more easy retention of the hammer at the point of full cock. 4th, the mode herein-before described of locking the rotating breech at the moment of firing by means of the locking bolt, operated by the trigger, in combination with the hexagonal neck of the rotating breech, which, nevertheless, permits the breech to be freely rotated by hand or otherwise when the trigger is not drawn back. 5th, the use of a double trigger spring or spring and lever, for the purpose herein-before set forth."

HENRY JENKINS, of Cincinnati, Ohio, for an "Improved ornamental connection of the parts of an iron fence.—Patented 30th January, 1852.—Re-issued 6th September, 1859.

"I claim forming the ornament or cast-iron connections for a railing, fence, or other article of iron, cast into a divided iron mould, substantially as and for the purpose specified."

JACOB H. MUMMA, of Harrisburgh, Pa., for an "Improvement in straw cutters."—Patented 26th January, 1858.—Re-issued 6th September, 1859.

"I claim, first, the combined application to straw-cutting machines of a changable feed gear with two edged revolving cutters or blades, when so made as that, by changing them end for end on their arms or supports they shall bring a different cutting edge into action, or when run in either direction shall always feed in the material in one and the same direction, substantially as and for the purpose stated. I also claim the combination of feed rollers acted upon by tappets, and the crushing rollers controlled by gum elastic springs, when arranged in relation to, and acting in connection with, the cutting apparatus, as herein described and represented."

JOHN W. MARSH, of Oxford, Mass., for an "Improvement in sewing machines."—Patented 27th October, 1857.—Re-issued 6th September, 1859.

"I claim, first, the combination of the slide A, provided with its guard E, and its slot or slots C, D, with the foot piece M, with its guide N, and slots arranged and operating substantially as described. Second, I claim the combination with the sewing apparatus, or its equivalent, of a movable knife operated by a connection with the sewing machine so as to trim or cut the work whilst being sewed, substantially in the manner and for the purpose as above set forth and described."

PHILO B. GILBERT, of New York, N. Y., for a "Design for the handles of spoons and forks."

"I claim the ornamental configuration herein represented as applied to the handles of spoons and forks, as set forth."

ELEMER J. NEY, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for carpet pattern."

"I claim the design or pattern for carpets, herein set forth."

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471	7*d.*	Ordnance.
472	3*d.*	Reversing gear for locomotive and other steam engines.
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1478. To LORING DANIEL DEWEY, of the United States of America, now of 4, Southampton Buildings, Chancery Lane, in the county of Middlesex, England, for the invention of "Improvements in spring seats for chairs, sofas, couches, carriages, and other similar articles."—A communication from Charles Robinson, residing at Massachusetts, in the United States of America.

On his petition, recorded in the Office of the Commissioners on the 20th day of June, 1859.

1589. To HENRY CHARLES HOWELLS, of 120, Duane Street, New York, in the state of New York, and JOSEPH CHARLES HOWELLS, of Madison, in the state of Wisconsin, both in the United States of America, for the invention of "Improvements in the mode of registering the number of persons entering or leaving public conveyances or places of public resort, and of determining the value of the entry or fare."

On their petition, recorded in the Office of the Commissioners on the 4th day of July, 1859.

1957. To JAMES PHILP, of Camden Town, in the county of Middlesex, Gentleman, for the invention of "Improvements in the manufacture of soap."—A communication from abroad by Professor Packer, residing at Newark, United States.

On his petition, recorded in the Office of the Commissioners on the 27th day of August, 1859.

1959. To JOSEPH WHITWORTH, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in ordnance, fire-arms, and ammunition."

1964. And to JOHN EDWARDS, of 77, Aldermanbury, in the city of London, for the invention of "Improvements in the manufacture of buttons."

On both their petitions, recorded in the Office of the Commissioners on the 29th day of August, 1859.

1989. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in treating auriferous and argentiferous ores and substances."—A communication from abroad by Dr. Raoul Destrem, residing at Paris.

On his petition, recorded in the Office of the Commissioners on the 31st day of August, 1859.

2014. To WILLIAM SUFFIELD, of Birmingham, in the county of Warwick, Dentist, for the invention of "Improvements in the manufacture of artificial teeth, and in machinery to be employed in the said manufacture."

2016. And to GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improvements in printing, and in apparatus connected therewith."—A communication from abroad by M. Aloïs Auer, Aulic Councillor and Director of the state Printing Office, Vienna.

On both their petitions, recorded in the Office of the Commissioners on the 3rd day of September, 1859.

2038. To EDWARD ROBERT DANN and EDWARD GOLDSCHMIDT, both of Nottingham, for the invention of "Improvements in the manufacture of bonnet fronts or lappets."

2040. To HENRY JONES, of Birmingham, in the county of Warwick, Gun Manufacturer, for the invention of "Improvements in breech loading fire arms."

2042. To JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North

Britain, Paper Makers, for the invention of "The manufacture of gelatine, and apparatus to be employed therein."

2044. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved manufacture of metallic strips, or bands applicable to ladies' skirts."—A communication from abroad by William Sparks Thomson, of New York, in the United States of America.

2048. And to WILLIAM ROTHWELL, of Carr House, Midgley, in the parish of Halifax and county of York, Mechanic, and THOMAS WATSON, of the same place, Overlooker, for the invention of "Improvements in screw gill-boxes."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of September, 1859.

2050. To THOMAS OSWALD SMALL, of the borough and county of Newcastle-upon-Tyne, Artist, for the invention of "Improvements in the stereoscope, by means of tinted media, and by the application of the pulley and lever, or spring, in changing the lights."

2052. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in cocks and valves."—A communication from abroad by Jean Baptiste Prudence Gire, of Paris, in the empire of France.

2054. To JAMES TANDY, of Cavendish Grove, Wandsworth Road, in the county of Surrey, for the invention of "Improvements in locomotive and other steam boilers."

2056. And to GEORGE GOWLAND, of Liverpool, in the county of Lancashire, Chronometer and Nautical Instrument Maker, for the invention of "Improvements in nautical and surveying instruments for measureing angles."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of September, 1859.

2060. To SAMUEL WORSSAM, of Chelsea, in the county of Middlesex, Engineer, for the invention of "Improvements in sawing machinery."

2062. To WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, of No. 4, Wellington Street, South, Strand, London, Patent Agents, for the invention of "Improvements in the manufacture of nails."—A communication from abroad by Bernard-Roelandt and Company, of Fontaine l'Evèque, Belgium, Nail Manufacturers."

2064. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the process of, and machinery for, manufacturing hat bodies."—A communication from abroad by Andrew Campbell, of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of September, 1859.

2066. To ANDREW SMITH, of Mauchline, in the county of Ayr, North Britain, Manufacturer of Scotch Fancy Wood Work, for the invention of "Improvements in strengthening umbrella and walking stick handles, and other articles or details wherein the cross or transverse grain of the wood or other material is subject to strains."

2068. To WILLIAM ROSS, of Glasgow, in the county of Lanark, North Britain, Brassfounder, for the invention of "Improved apparatus connected with the discharge of liquids."

2069. To EDWARD JONES MALLETT, of the city of New York, but now Commercial Agent of the United States, at Florence, in Italy, for the invention of "Improvements in axles."

2070. And to THOMAS JOSEPH PERRY, of Bilston, in the county of Stafford, Engineer and Ironfounder, for the invention of "An improved construction of hot air oven."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of September, 1859.

2076. To JOHN EASON, of Oxford Street, in the county of Middlesex, for the invention of "Improvements in the manufacture of buff or losh and other oiled leathers."

2078. To WILLIAM HENRY MORRISON, of Nottingham, Manufacturer, for the invention of "Improvements in the manufacture of bonnet and cap fronts, and in the means or apparatus employed therein."

2080. To JOSIAH MASON, of Birmingham, for the invention of "An improvement in boxes or cases and cards to contain or hold pens."

2082. And to WILLIAM ELLIOTT, of Birmingham, in the county of Warwick, for the invention of "Improvements in the manufacture of African or Guinea rods."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of September, 1859.

2091. To CHARLES GODFREY GUMPEL, of No. 2, Gordon Cottages, Holland Road Brixton, in the county of Surry, for the invention of "Improvements in the application of motive power to the propelling of vessels."

2093. To JOHN PITT KENNEDY, of Torrington Square, in the county of Middlesex, Lieutenant Colonel and Engineer, for the invention of "Improvements in steam boilers."

2095. To CHARLES BESLAY, of Rue St. Sebastian, Paris, in the empire of France, Gentleman, for the invention of "Improvements in preparing and obtaining printing surfaces with designs sunk as also in relief."

2097. And to JOHN STANTON SLOCUM, of Providence, Rhode Island, United States of America, for the invention of "Improvements in projectiles, suitable for ordnance."—A communication from abroad by Charles Tillinghast James, of Providence, Rhode Island aforesaid.

On their several petitions, recorded in the Office of the Commissioners on the 14th day of September, 1859.

2099. To JOHN ROBINSON, of Sutton, near Hull, Agricultural Implement Maker, for the invention of "An improved agricultural implement."

2101. To JULIEN BRIÈRE, of Brussels, in the kingdom of Belgium, Mechanic, for the invention of "Improvements in railway breaks."

2103. And to HENRY WINTER, of Albion Place, Hackney, in the county of Middlesex, for the invention of "A machine or apparatus for lifting and weighing loaded sacks, and also merchandize."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of September, 1859.

2105. To JOHN WILSON HADWEN, of Kebroyd Mills, in the parish of Halifax, and West Riding of the county of York, Cotton Spinner, for the invention of "An improvement or improvements in apparatus or machinery used for drawing fibrous substances or materials in any of the processes or machines for preparing to be spun, or for spinning the same."

2107. To NATHANIEL HECKFORD, of Forest Gate, in the county of Essex, Gentleman, for the invention of "A method of purifying the Thames and other rivers, and of treating night soil."

2109. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 56, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in machinery for forming hat bodies."—A communication from abroad by H. A. Burr, of New York.

2111. And to HENRY JACKSON, of Oak Works, Oak Lane, Limehouse, for the invention of "Improvents in fire bars."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of September, 1859.

2113. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A new brick and tile making machine."—A communication from abroad by Alexis Maigné, of Paris, in the empire of France.

2115. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "Further improvements in brakes for railway carriages."—A communication from abroad by Laurent Rigolier, of Rhône, in the empire of France.

2117. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "A slip bridle for stopping runaway horses."—A communication from abroad by Cesar Bourdenet-Bouchot, of Paris, in the empire of France.

2119. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "An improved disc and lantern signal with double repeaters."—A communication from abroad by Jules Rousseau, of Paris, in the empire of France.

2121. To SAMUEL NEWMAN RODIER, of Prospect Cottage, Strand-on-the-Green, Chiswick, in the county of Middlesex, for the invention of "Improvements in the regulation of gas to burners, which he calls 'Rodier's regulating gas valve.'"

2123. And to ABRAHAM JOHN NORMAN, of Gore Lodge, Turnham Green, in the parish of Chiswick, county of Middlesex, for the invention of "Paving roads and surfaces."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of September, 1859.

2125. To FREDERIC NEWTON GISBORNE, of No. 3, Adelaide Place, London Bridge, in the city of London, Engineer, for the invention of "Paying out submarine telegraphic cables."

2127. To WILLIAM ROBERTSON and JOHN TWEEDDALE, both of Johnstone, in the county of Renfrew, North Britain, Engineers, for the invention of "Improvements in hydrostatic jacks, or lifting apparatus."—A communication from abroad by John Robertson, of Brooklyn, New York, United States.

2129. To JAMES WRIGHT, of 42, Bridge Street, Blackfriars, city of London, Civil Engineer, for the invention of "Improvements in the construction of carriages, coaches, omnibuses, and other such like conveyances."—A communication from abroad by Rene Sauvage, De Saint Marc, of Lyons, in the empire of France.

2131. To PETER FAIRBAIRN, of Leeds, in the county of York, Knight, for the invention of "Improved machinery for finishing the teeth of spur and other gearing."

2133. To RICHARD ARCHIBALD BROOMAN, of 166 Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in elevators or lifts, for hotels, warehouses, and other structures."—A communication from abroad by Otis Tufts, of Boston, United States.

2135. And to LOUIS ENGLER and ERNEST FRÉDÉRIC KRAUSS, Manufacturers, of 29, Boulevart St. Martin, Paris, in the empire of France, for the invention of "A new or improved system of insulators for electric wires."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of September, 1859.

2139. To WILLIAM WEILD, of the city of Manchester, in the county of Lancaster, Machinist, for the invention of "Improvements in fluted rollers, used in machines for preparing, spinning, and doubling cotton, wool, flax, silk, and other fibrous materials, and in the manufacture of such rollers."

2141. To JOHN BEADS, of Pendleton, near Manchester, in the county of Lancaster, Manager, for the invention of "Improvements in machinery or apparatus for spinning cotton, wool, or other fibrous substances, part of which improvements is applicable to other purposes."

2143. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in projectiles."—A communication from abroad by A. B. Stoughton, of Washington, in the United States of America.

2145. And to EDWARD COLLIER, of Myddleton Street, Clerkenwell, in the county of Middlesex, Surgical Instrument Maker, for the invention of "Improvements in ear dilators."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of September, 1859.

2147. To HENRY CORLESS, of West Derby, in the county of Lancaster, Gentleman, for the inven-

tion of "Improvements in apparatus for washing, wringing, and mangling."

2151. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved mode of and apparatus for condensing the waste steam of marine engines." —A communication from abroad by Messrs. Mazeline and Co., of Paris, in the empire of France.

On both their petitions, recorded in the Office of the Commissioners on the 21st day of September, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

2154. EDWIN BRUCE DIMOCK and JULIUS HALSEY BAKER, of Ware House Point, in the county of Hartford, and state of Connecticut, United States of America, praying for Letters Patent for the invention of "A new and useful improvement in mechanism or apparatus for drying woolen or other cloths,"—a communication by one Charles F. Bennett, of the town, county, and state aforesaid—was deposited and recorded in the Office of the Commissioners on the 21st day of September, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

29th September, 1859.

797. JOHN CARTWRIGHT, of Shrewsbury, in the county of Salop, Agricultural Implement Manufacturer, for an invention of "An improved implement for crushing clods and pulverizing the surface soil, also convertible into a press-wheel roller."—Dated 30th March, 1859.

798. COWPER PHIPPS COLES, of Southsea, in the county of Hants, Captain R.N., for an invention of "An apparatus for defending guns and gunners in ships of war, gun boats, and land batteries."—Dated 30th March, 1859.

801. WILLIAM SMITH, of King Street, Smithfield, in the city of London, and EDMUND SMITH, of Hamburgh, Gas Meter Manufacturers, for an invention of "Improvements in means or apparatus for the purpose of regulating the flow or passage of fluids."—Dated 30th March, 1859.

807. ALEXANDER MORTON, of Morton Place, Kilmarnock, for an invention of "Improvements in sextants or quadrants for nautical purposes, and which are also adapted to the measuring of altitudes or angular distances."—Dated 31st March, 1859.

813. DANIEL KINNEAR CLARK, of 11, Adam Street, Adelphi, in the county of Middlesex, Civil Engineer, for an invention of "Feed water heating apparatus."—Dated 1st April, 1859.

814. FREDERIC PHILIPPE AUGUSTE AUBURTIN, of Paris, in the empire of France, at present residing at No. 32, Gerard Street, Islington, in the county of Middlesex, for an invention of "An improved preparation of food for herbivorous animals."—Dated 1st April, 1859.

822. YVES-MARIE THOMAS, of 2, Rue Sainte-Appoline, Paris (empire of France), and of 45, Essex Street, Strand, London, for an invention of "An improved propeller for ships, vessels, boats, and water-wheels."—Dated 1st April, 1859.

824. ABRAHAM RIPLEY, of 21, Bridge Street, Blackfriars, London, county of Middlesex, Engineer, and JOHN ROBERTS, of Nelson Square, Bermondsey, county of Surrey, Engineer, for an invention of "Improvements in machinery for striking or scraping leather, and tanned or untanned hides."—Dated 2nd April, 1859.

832. MICHAEL COUPLAND, of Haggerstone, in the county of Middlesex, Engineer, for an invention of "Improvements in furnaces." — Dated 2nd April, 1859.

834. THOMAS WILLIAMS, of Aberdaron, in the county of Caernarvon, Engineer, and JOHN HOBSON FULLER, of 70, Hatton Garden, in the county of Middlesex, Tool Manufacturer, for an invention of "Improvements in screw stocks and dies."—Dated 2nd April, 1859.

836. JOSEPH ECCLES, of Blackburn, in the county of Lancaster, Cotton Manufacturer, for an invention of "Improvements in machinery for making bricks, tiles, and other articles formed of plastic materials."—Dated 4th April, 1859.

840. JAMES HENRY BURTON, of Enfield Lock, in the county of Middlesex, for an invention of "Improvement in the manufacture of barrels for small fire-arms."—Dated 4th April, 1859.

843. CHAMPION RUSSELL, of Stubbers, near Romford, in the county of Essex, Esquire, for an invention of "An improvement in the working of marine engines."—Dated 4th April, 1859.

844. MATTHEW AUGUSTUS CROOKER, of New York, United States of America, Engineer, for an invention of "Improvements in paddle wheels for steamers."—Dated 4th April, 1859.

846. EDMUND MOREWOOD, of Enfield, in the county of Middlesex, for an invention of "Improvements in coating metals."—Dated 4th April, 1859.

848. ANDREW SHANKS, Engineer, No. 6, Robert Street, Adelphi, Westminster, for an invention of "Certain improvements in machinery for forging and stamping metals."—Dated 5th April, 1859.

850. EDWARD FAIRBURN, of Kirklees Mills, Mirfield, in the county of York, Card Manufacturer, for an invention of "Improvements in machinery for carding wool and other fibrous substances."—Dated 5th April, 1859.

852. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, for an invention of "Improvements in open fire places."—A communication from abroad by Calvin Dodge, of Pittsburgh, North America. —Dated 5th April, 1859.

853. GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer,

and Edward Dutch, of the same place, Commercial Traveller, for an invention of "Improvements in the apparatus for regulating the quantity of water to be used for the flushing of water closets and other purposes."—Dated 5th April, 1859.

855. John Hetherington, of Manchester, in the county of Lancaster, Machinist, and Thomas Webb and James Craig, of Tutbury, in the county of Derby, Cotton Spinners, for an invention of "Improvements in machinery or apparatus for spinning and doubling cotton and other fibrous materials."—Dated 5th April, 1859.

861. Jean Auguste Hilarion Ballande, of Paris, in the empire of France, Gentleman, for an invention of "An improvement in the preparation of writing paper, and ink to be used thereon."—Dated 6th April, 1859.

862. William Owen, of Rotherham, in the county of York, Engineer, for an invention of "Improvements in the manufacture of railway wheels and tyres, and in the apparatus employed therein."—Partly a communication from Robert Owen, residing at San ge Ronimo, Central America.—Dated 6th April, 1859.

864. John Scoffern, of 4, Barnard's Inn, Bachelor of Medicine, for an invention of "Improvements in lubricating projectiles and cartridges."—Dated 6th April, 1859.

865. David Moseley, of the Chapel Field Works, Ardwick, in the city of Manchester, Manufacturer of India Rubber and Gutta Percha, for an invention of "Improvements in the manufacture of cards for carding cotton and other fibrous materials."—Dated 7th April, 1859.

871. John Garrett, of Arundel Place, Haymarket, in the county of Middlesex, Tinman, for an invention of "Improvements in the construction of goblets, jugs, and other like articles."—Dated 7th April, 1859.

873. John Talbot Pitman, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention of "Improvement in the construction and use of fire works for signals."—A communication from abroad by Martha J. Coston, of the city of Washington, D.C., in the United States of America.—Dated 8th April, 1859.

878. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved articulated joint for water, gas, and steam pipes."—A communication from Victor Doré, a person resident in Paris, France.—Dated 8th April, 1859.

880. Nicolas Alexis Grumel, formerly a Dyer, and at present Ink Manufacturer, in Paris, in the empire of France, for an invention of "Improvements in dyeing cotton, wool, silk, flax, and other fibrous materials or fabrics."—Dated 8th April, 1859.

883. William Henderson, of Alderley Edge, in the county of Chester, Chemist, for an invention of "Improvements in treating certain ores, and obtaining products therefrom."—Dated 8th April, 1859.

885. Elias Robison Handcock, of No. 23, Norfolk Street, Strand, in the county of Middlesex, Esquire, for an invention of "Improvements in steam and other motive-power engines."—Dated 8th April, 1859.

886. Thomas Spencer, of No. 192, Euston Road, Euston Square, London, Analytical and Consulting Chemist, for an invention of "Improvements in the economical treatment of refuse or waste matter containing sulphur."—Dated 9th April, 1859.

891. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the manufacture or production of the ferro cyanide and cyanide of potassium."—A communication from abroad by Jean Victor Lucas, of Paris, in the French empire, Chemist.—Dated 9th April, 1859.

895. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in steam engines and boilers."—A communication from abroad by Ernest Georges Xavier Boileau, of Paris, in the empire of France.—Dated 9th April, 1859.

934. John Gillett, of Upper Brailes, in the county of Warwickshire, Agricultural Implement Maker, for an invention of "An improved mill used for grinding, crushing, and reducing bones, and other mineral and vegetable substances."—Dated 14th April, 1859.

957. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the manufacture of alumina."—A communication from abroad by Mr. Le Chatelier, of Paris.—Dated 16th April, 1859.

960. Henry Harrison, of the firm of Joseph Harrison and Sons, of Blackburn, in the county of Lancaster, Machine Makers, for an invention of "Certain improvements in looms for weaving."—Dated 16th April, 1859.

982. William Parsons, of Pontar-Tawe, near Swansea, in the county of Glamorgan, Tin Plate Manufacturer, for an invention of "Improvements in preparing sheet iron and other metal sheets for japanners and other uses."—Dated 18th April, 1859.

987. Isaac Dutton, of Tipton, in the county of Stafford, Whitesmith, and Robert Martin, of Dudley, in the county of Worcester, Coke Merchant, and Thomas Phillips, of Dudley, aforesaid, Coke Merchant, for an invention of "New or improved machinery for preventing accidents in coal or other mines by the drawing of skips or cages over their pullies."—Dated 19th April, 1859.

991. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for weaving seamless bags or other articles with hemispherical or regular or irregular ends or forms."—A communication from abroad by John Pender, of the United States of America.—Dated 19th April, 1859.

1046. Robert Main, of Birkenhead, in the county of Chester, Carriage Builder, for an invention of

"Improvements in wheels for carriages."—Dated 26th April, 1859.

1051. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for grinding and polishing knives and other articles of cutlery and tools."—A communication from abroad by James Dodge, of Waterford, Saratoga county, state of New York, United States of America.——Dated 26th April, 1859.

1090. CHARLES HANSON GREVILLE WILLIAMS, of 39, Regent Square, Gray's Inn Road, in the county of Middlesex, for an invention of "Improvements in the manufacture of colouring matters, and in applying the same for dyeing and printing fabrics and materials."—Dated 30th April, 1859.

1109. WILLIAM SELLERS, of Philadelphia, in the state of Pennsylvania, United States of America, Engineer and Machinist, for an invention of "Improved machinery for making screw bolts and nuts."—Dated 3rd May, 1859.

1134. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improved steam gauge."—A communication from abroad by Anthoine Ernest Dupas, of New Orleans, in the United States of America.—Dated 5th May, 1859.

1135. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Certain improvements in fish-hooks."—A communication from abroad by Theodore Frederic Weil, of New Orleans, in the United States of America.—Dated 5th May, 1859.

1295. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery applicable to the manufacture of rivets, bullets, and other like articles."—A communication from abroad by Charles Bartholomew Allen, of Philadelphia, United States of America.—Dated 25th May, 1859.

1418. HENRY JOHN NICOLL, of the firm of Messieurs H. J. and D. Nicoll, Merchant Tailors, 114 to 120, Regent Street, in the county of Middlesex, for an invention of "Improvements in trousers."—Dated 11th June, 1859.

1529. JOHN BODEN, of Portswood Road, Southampton, Engineer, and WILLIAM CLARK, of Northern Road, Southampton aforesaid, Boiler, Maker, for an invention of "Improvements in apparatus for super-heating steam."—Dated 25th June, 1859.

1538. GEORGE DAWES, of Milton Iron Works, in the parish of Hoyland, in the county of York, Ironmaster, and CHARLES JOHN CARR, of Hoyland aforesaid, Engineer, for an invention of "Certain improvements in atmospheric and vacuum hammers and stamps, part of which improvements is also applicable to steam and other engines."—Dated 28th June, 1859.

1580. THOMAS JAMES HART, of Birmingham, in the county of Warwick, Gun Barrel Manufacturer, for an invention of "Improvements in breech loading fire arms."—Dated 2nd July, 1859.

1587. JAMES HOLLINGWORTH, of the Clyde Paper Mills, Eastfield, in the county of Lanark, North Britain, Manager, for an invention of "Improvements in machinery or apparatus for the manufacture of paper."—Dated 4th July, 1859.

1627. DAVID MATHEWS, of Eshald Well Brewery, Oulton, near Leeds, in the county of York, Brewer, for an invention of "Improvements in apparatus for refrigerating and heating liquids."—Dated 8th July, 1859.

1639. CHARLES ILIFFE, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in the manufacture of buttons."—Dated 9th July, 1859.

1658. ALLAN COOPER, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in the manufacture of the grips of swords and sword bayonets."—Dated 13th July, 1859.

1720. SAMUEL ALEXANDER BELL and JOHN BLACK, of Bow Lane, Cheapside, in the city of London, Vesta Light and Fusee Manufacturers, for an invention of "An improved manufacture of fusee."—Dated 22nd July, 1859.

1738. JOSEPH GILLOTT, of Birmingham, in the county of Warwick, Manufacturer, and JOHN MORRISON, of Birmingham aforesaid, Machinist, for an invention of "New or improved machinery for the manufacture of the handles of penholders, which machinery, or a part or parts thereof, may also be employed for manufacturing other cylindrical articles."—Dated 26th July, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 28th September*, 1859, *inclusive.*)

26th September.

2267. FREDERICK RANSOME, of Ipswich, for an invention of "Improvements in the manufacture of artificial stone, and in rendering it and other building materials less liable to decay."—Dated 27th September, 1856.

2293. JOHN DAUGLISH, of Great Malvern, in the county of Worcester, Doctor of Medicine, for an invention of "An improved method of making bread."—Dated 1st October, 1856.

27th September.

2279. ROBERT MORRISON, of the town and county of the town of Newcastle-upon-Tyne, Engineer, for an invention of "Improvements in the construction of apparatus for lifting, lowering, hauling, and removing moveable articles, by the direct action of either water, steam, or gaseous vapour."—Dated 29th September, 1856.

2443. LEON JOSEPH POMME DE MIRIMONDE, Gentleman, of Paris, in the French empire, for an invention of "Certain improvements in reducing the friction of axles and axletrees of carriages on railways."—Dated 18th October, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(To 28th September, 1859, inclusive.)

27th September.

56. JOHN FINLAY, of Glasgow, in the county of Lanark, North Britain, Ironmonger, for an invention of "Improvements in grates and fireplaces, or apparatus for the generation of heat."—Dated 1st October, 1852.

77. STEPHEN SOULBY, of Ulverston, in the county of Lancaster, Printer, for an invention of "Improvements in machinery for letterpress printing."—Dated 1st October, 1852.

96. HENRY BRIDSON, of Bolton-le-Moors, in the county of Lancaster, Bleacher, for an invention of "Improvements in machinery to facilitate the rinsing, washing, and cleansing of fabrics, which machinery is also applicable to certain operations in bleaching and dyeing."—Dated 1st October, 1852.

103. CHARLES LUNGLEY, of Poplar, in the county of Middlesex, Ship-builder, for an invention of "Improvements in ship-building."—Dated 1st October, 1852.

142. HENRY BERNOULLI BARLOW, of Manchester, in the county of Lancaster, Patent Agent and Consulting Engineer, for an invention of "Improvements in the manufacture of cylinders for carding cotton and other fibrous substances."—A communication.—Dated 1st October, 1852.

28th September.

6. MOSES POOLE, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of guns and pistols."—A communication.—Dated 1st October, 1852.

16. MOSES POOLE, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of telescope and other tubes."—A communication.—Dated 1st October, 1852.

19. MOSES POOLE, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in moulding articles when india rubber combined with other materials are employed."—A communication.—Dated 1st October, 1852.

24. MOSES POOLE, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the making covers for and in binding books and portfolios, and in making frames for pictures and glasses."—A communication.—Dated 1st October, 1852.

28. MOSES POOLE, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in coating metal and other substances with a material not hitherto used for such purposes."—A communication.—Dated 1st October, 1852.

Notice of Emendation.

1402.—(1859.)—Notice is hereby given, that a petition, declaration, and provisional specification in the name of WILLIAM BUMESS, of 2, Prospect Terrace, Brixton, in the county of Surrey, applying for Letters Patent for his invention of "Improvements in steam-culture machinery, part of which is applicable to steam cartage and other purposes"—(advertized in the London Gazette on the 15th July last), the certificate of the law officer allowing provisional protection thereon, and the records relating thereto, in the Office of the Commissioners for Patents, have been severally amended by the substitution of the name of WILLIAM BURNESS for William Bumess, the same having been written William Bumess in error.

Erratum in Journal of 27th September.

1594. For "Monkbar, in the county of York," read "Monkbar, in the city of York."

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

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No. 600. TUESDAY, OCTOBER 4, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1210. JOHAN VALDA, of London, in the county of Middlesex, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in stud fastenings, and a system of ornamenting and adapting belts, cravats, ribbons, draperies, and other articles to stud fastenings."

1244. And GEORGE JOHN PARFITT, of the city of Bath, in the county of Somerset, City Surveyor, has given the like notice in respect of the invention of "Improvements in gas burners."

As set forth in their respective petitions, both recorded in the said office on the 20th day of May, 1859.

1253. And JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the county of Stafford, Mechanic, has given the like notice in respect of the invention of "Improvements in the construction of lubricating and other cans, in order to regulate the discharge or flow of the liquids they contain."

As set forth in his petition, recorded in the said office on the 21st day of May, 1859.

1261. And JOHN KNOWLES, of Lower Broughton, near Manchester, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Certain improvements in power looms for weaving."

As set forth in his petition, recorded in the said office on the 23rd day of May, 1859.

1280. And JOSEPH GIBBS, of Brentford, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "A method of treating coal, shale, lignites, and peat, in order to manufacture manure."

1282. And GEORGE HADFIELD, of Carlisle, in the county of Cumberland, Varnish Manufacturer, has given the like notice in respect of the invention of "An improved arrangement of heating and evaporating apparatus."

As set forth in their respective petitions, both recorded in the said office on the 24th day of May, 1859.

1290. And EDWIN MAW, of the Doncaster Iron Works, Yorkshire, has given the like notice in respect of the invention of "Improvements in the construction of metallic bedsteads and other furniture."

As set forth in his petition, recorded in the said office on the 25th day of May, 1859.

1298. And JAMES WEBSTER, of Birmingham, in the county of Warwick, Engineer, has given the like notice in respect of the invention of "An improvement or improvements in pressure and vacuum guages."

1304. And GEORGE FREDERIC CHANTRELL, of Liverpool, in the county of Lancaster, Furnace Engineer, has given the like notice in respect of the invention of "Improvements in the construction of charcoal kilns, and in the manufacture of coolers for charcoal kilns."

1306. And JOHN DRAPER, of 5, Little Tower Street, in the city of London, has given the like notice in respect of the invention of "Improvements in applying indices to account and other books."

As set forth in their respective petitions, all recorded in the said office on the 26th day of May, 1859.

1311. And WILLIAM WEILD, of the city of Manchester, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in looms for weaving pile fabrics."

1314. And LEON FARRENCE, Gentleman, and BERNARD SUBRA, Professor of Mathematics, both of Paris, France, have given the like notice in respect

of the invention of "Improvements in gas lighting by means of direct carburators."

1315. And HILARY NICHOLAS NISSEN, of Mark Lane, in the city of London, Stationer and Printer, has given the like notice in respect of the invention of "An improvement in book indexes."

1316. And GEORGE HADFIELD, of Carlisle, in the county of Cumberland, Varnish Manufacturer, has given the like notice in respect of the invention of "Improvements in the mode of, and apparatus for, forming casks or barrels."

As set forth in their respective petitions, all recorded in the said office on the 27th day of May, 1859.

1328. And JOHN BRUCE, of Tiddington, near Stratford-on-Avon, in the county of Warwick, Agricultural Implement Maker, has given the like notice in respect of the invention of "An improvement in agricultural drills."

1331. And OLIVER MAGGS, of Bourton, in the county of Dorset, has given the like notice in respect of the invention of "Improvements in harrows."

1332. And WILLIAM GREEN, of Victoria Works, Dod Street, Limehouse, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in washing or purifying and treating sugar."

As set forth in their respective petitions, all recorded in the said office on the 30th day of May, 1859.

1344. And GEORGE HENRY SMITH, of the city of Manchester, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in sewing machines."

1345. And PHILIPPE GAMBARDELLA, of Naples, Engineer, at present temporily residing at the Office for Patents, 123, Chancery Lane, London, has given the like notice in respect of the invention of "Improvements in obtaining motive power, and in machinery or apparatus connected therewith."

1348. And FREDERICK ROBERTS, of Maiden-Newton, and ALEXANDER ROBERTS, of Froome Vanchurch, both in the county of Dorset, have given the like notice in respect of the invention of "Improvements in apparatus employed for ploughing, tilling, or cultivating land when steam power is employed."

As set forth in their respective petitions, all recorded in the said office on the 31st day of May, 1859.

1351. And FRANCIS WALTER SALTONSTALL, of Northumberland Street, Strand, in the county of Middlesex, and ALFRED BUSH, of Hanover Cottage, Park Road, Saint John's Wood, in the county of Middlesex aforesaid, have given the like notice in respect of the invention of "An improved machine or apparatus for dredging and excavating."

As set forth in their petition, recorded in the said office on the 2nd day of June, 1859.

1363. And ROBERT WILLIAM SIEVIER, of Upper Holloway, in the county of Middlesex, but now residing in Hull, in the county of Yorkshire, in the kingdom of Great Britain, has given the like notice in respect of the invention of "Improvements in smelting and purifying of iron and other ores."

1365. And ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of iron and steel."

As set forth in their respective petitions, both recorded in the said office on the 3rd day of June, 1859.

1379. And CHRISTOPHER JAMES, of Mountain Ash, Aberdare, in the county of Glamorgan, Agent, has given the like notice in respect of the invention of "An improvement in the manufacture of railway chairs."

As set forth in his petition, recorded in the said office on the 4th day of June, 1859.

1395. And CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the city of London, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for punching and sheering metal."—Partly a communication from abroad by Michael de Bergue, of Barcelona, in the kingdom of Spain.

As set forth in his petition, recorded in the said office on the 8th day of June, 1859.

1402. And WILLIAM BURNESS, of 2, Prospect Terrace, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in steam-culture-machinery, part of which is applicable to steam-cartage and other purposes."

As set forth in his petition, recorded in the snip office on the 9th day of June, 1859.

1436. And EDME JULES MAUMENÉ, Professor of Chymistry, and VICTOR ROGELET, Merchant, both residing in Reims, a town of France, have given the like notice in respect of the invention of "Using 'suint,' or the portion soluble in water of the greasy substance found on the skin and hair of sheep for the purpose of manufacturing potash and other products."

As set forth in his petition, recorded in the said office on the 15th day of June, 1859.

1509. And CROMWELL FLEETWOOD VARLEY, of No. 4, Fortess Terrace, Kentish Town, and CORNELIUS JOHN VARLEY, No. 7, York Place, Kentish Town, St. Pancras, Middlesex, have given the like notice in respect of the invention of "Improvements in proving electric conductors, and in the apparatus connected therewith."

As set forth in their petition, recorded in the said office on the 23rd day of June, 1859.

1522. And PROSPER FAURE and JULES PERNOD, of Avignon, in the empire of France, have given the like notice in respect of the invention of "An improved process for utilizing the residues of madder, in the manufacture of garancine and other preparations of madder."

As set forth in their petition, recorded in the said office on the 24th day of June, 1859.

1737. And JOHN HINKS and GEORGE WELLS, of Birmingham, in the county of Warwick, Manufacturers and Copartners, have given the like notice

in respect of the invention of "An improvement in, or a substitute for, the hook of the ordinary hook and eye dress fastening."

As set forth in their petition, recorded in the said office on the 26th day of July, 1859.

1757. And Thomas Culpin, of No. 25, Royal Hill, Greenwich, in the county of Kent, Engineer, has given the like notice in respect of the invention of "Improvements in water-closets, water-cisterns, urinals, baths, lavatories, and other sanitary apparatus, and in the mode of supplying water thereto."

As set forth in his petition, recorded in the said office on the 29th day of July, 1859.

1799. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in mills for grinding coffee, corn, and other substances."—A communication from Joseph Poole Pirsson, residing in New York.

As set forth in his petition, recorded in the said office on the 4th day of August, 1859.

1820. And Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in machinery or apparatus for manufacturing chenille."—A communication from abroad by Jean Baptiste Mallion, Merchant, residing at Saint Chamond (département de la Loire), in the empire of France.

As set forth in his petition, recorded in the said office on the 6th day of August, 1859.

1886. And William Leatham, of Leeds, in the county of York, Engineer, has given the like notice in respect of the invention of "An improved double-acting superlative screw throttle valve."

As set forth in his petition, recorded in the said office on the 16th day of August, 1859.

1916. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in apparatus for preparing and spinning fibrous materials."—A communication from abroad by Felix Edmond Lemaire, residing at Paris.

As set forth in his petition, recorded in the said office on the 22nd day of August, 1859.

1985. And Augustus Smith, of Brentwood, in the county of Essex, Manufacturer, has given the like notice in respect of the invention of "Improvements in machinery for the preparation of cocoa nut fibre."

As set forth in his petition, recorded in the said office on the 31st day of August, 1859.

1998. And Peter Wright, of Dudley, in the county of Worcester, Manufacturer, has given the like notice in respect of the invention of "An "Improvement or improvements in the manufacture of anvils."

As set forth in his petition, recorded in the said office on the 2nd day of September, 1859.

2059. And John Gay Newton Alleyne, of Butterley Iron Works, Alfreton, in the county of Derby, has given the like notice in respect of the invention of "Improvements in the manufacture of wrought iron beams."

2064. And Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the process of and machinery for manufacturing hat bodies."—A communication from abroad by Andrew Campbell, of New York, in the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 9th day of September, 1859.

2071. And Thomas Gregory Gutch, of Southampton, in the county of Hants, Stationer and Printer, has given the like notice in respect of the invention of "The improvement of copying books, for order books, and letter books, and so forth as the improvement can be applied."

2080. And Josiah Mason, of Birmingham, has given the like notice in respect of the invention of "An improvement in boxes or cases and cards to contain or hold pens."

2081. And Henry George Collins, of McLean's Buildings, New Street Square, in the city of London, has given the like notice in respect of the invention of "Improvements in producing printing surfaces on stone, metal, and other materials capable of being employed in printing, in the manner of lithographic stones, also in the production of printing plates and surface printing blocks, and in transfer inks."

As set forth in their respective petitions, recorded in the said office on the 12th day of September, 1859.

2089. And William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improved apparatus for drying paper and other fabrics."—A communication from abroad by Edward L. Perkins, of Roxbury, in the county of Norfolk, and state of Massachusetts, United States of America.

As set forth in his petition, recorded in the said office on the 13th day of September, 1859.

2109. And William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machinery for forming hat bodies."—A communication from abroad by H. A. Burr, of New York.

2111. And Henry Jackson, of Oak Works, Oak Lane, Limehouse, has given the like notice in respect of the invention of "Improvements in fire bars."

As set forth in their respective petitions, both recorded in the said office on the 16th day of September, 1859.

2131. And Peter Fairbairn, of Leeds, in the county of York, Knight, has given the like notice in respect of the invention of "Improved machinery for finishing the teeth of spur and other gearing."

As set forth in his petition, recorded in the said office on the 19th day of September, 1859.

2154. And Edwin Bruce Dimock and Julius Halsey Baker, of Ware House Point, in the county of Hartford, and state of Connecticut, United States of America, have given the like notice in respect of the invention of "A new and useful improvement in mechanism or apparatus for drying woolen or other cloths."—A communication by one Charles F. Bennett, of the town, county, and state aforesaid.

As set forth in their petition, recorded in the said office on the 21st day of September, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patent Sealed.

List of Letters Patent which passed the Great Seal on the

1st October, 1859.

863. Joseph Rogers, of 9, Queen Square, Bartholomew Close, in the city of London, Rope Maker, and Edward Johnson Tweed, of 22, Castle Street, Falcon Square, also in the city of London, for an invention of "Improvements in coating conducting wires used for electric telegraphic purposes."—Dated 6th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 1st October*, 1859, *inclusive.*)

29th September.

2334. Herbert Mackworth, of Clifton, in the county of Gloucester, for an invention of "Improvements in the separation and treatment of mineral substances, and in coking, and in apparatus connected therewith."—Dated 6th October, 1856.

30th September.

2413. George Hazeldine, of Lant Street, Southwark, in the county of Surrey, Coachmaker, for an invention of "Improvements in carriages requiring 'poles' between the horses or draught animals."—Dated 15th October, 1856.

1st October.

2305. Edwin Hardon, of Stockport, in the county of Chester, Manufacturer, and Joseph Henry, of the same place, Mechanic, for an invention of "Improvements in looms for weaving, and in machinery for communicating motion to looms and other machines."—Dated 2nd October, 1856.

2319. George Fergusson Wilson, and Alexander Isaac Austen, both of Belmont, Vauxhall, for an invention of "Improvements in the manufacture of soap."—Dated 3rd October, 1856.

2320. David Ogilvy Boyd, of 78, Welbeck Street, in the county of Middlesex, for an invention of "Improvements in constructing and arranging smoke and air flues"—Dated 3rd October, 1856.

2335. Andrew Dunlop, of Glasgow, in the county of Lanark, North Britain, Grain Merchant, for an invention of "Improvements in dressing or sifting flour or meal."—Dated 6th October, 1856.

2348. George Fergusson Wilson, of Belmont, Vauxhall, for an invention of "An improvement in the manufacture of resin oil."—Dated 7th October, 1856.

2349. William Marriott and David Sugden, of Huddersfield, in the county of York, Agricultural and Manufacturing Chemists, for an invention of "An improvement in purifying coal gas."—Dated 7th October, 1856.

2378. Frederick Albert Gatty, of Accrington, in the county of Lancaster, Manufacturing Chemist, for an invention of "Certain improvements in dyeing."—Dated 10th October, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 1st October*, 1859, *inclusive.*)

29th September.

30. Moses Poole, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of trunks, cartouch and other boxes, knapsacks, pistol-holsters, dressing, writing, and other cases, and sword and other sheaths."—A communication.—Dated 1st October, 1852.

33. Moses Poole, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of pails, tubs, baths, buckets, measures, drinking and other vessels, basins, pitchers, and jugs, by the application of a material not hitherto used in such manufactures."—A communication.—Dated 1st October, 1852.

37. Moses Poole, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in covering and sheathing surfaces with a material not hitherto used for such purposes."—A communication.—Dated 1st October, 1852.

43. Moses Poole, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in harness, and in horse and carriage furniture."—A communication.—Dated 1st October, 1852.

123. Richard Whytock, of Green Park, Zibberton, in the county of Mid-Lothian, for an invention of "Improvements in the manufacture of fringes, and of pleat for these and other ornamental work."—Dated 1st October, 1852.

30th September.

9. George Green, of the Mile End Road, in the county of Middlesex, for an invention of "Improvements in the manufacture of casks."—Dated 1st October, 1852.

57. John Joseph Macdonnell, of the Temple Mead, in the city of Bristol, Civil Engineer, for an invention of "Certain improvements in the construction of railways."—Dated 1st October, 1852.

156. Joseph Brown, of Leadenhall Street, in the city of London, Upholsterer and Cabinet Maker, for an invention of "Improvements in beds, sofas, chairs, and other articles of furniture, to render them more suitable for travelling and other purposes."—Dated 2nd October, 1852.

160. Joseph Burch, of Crag Hall, near Macclesfield, in the county of Chester, Carpet Manufacturer, for an invention of "Certain improvements in building and propelling ships and vessels."—Dated 2nd October, 1852.

163. Moses Poole, of Serle Street, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of tables, sofas, bedsteads, stands, chairs, and other articles of furniture, and the frames and bodies of musical instruments."—A communication.—Dated 2nd October, 1852.

172. John Jobson, of Litchurch, in the county of Derby, Ironfounder, for an invention of "Improvements in manufacturing moulds for casting metal."—Dated 2nd October, 1852.

237. Herm Jäger, of Ludgate Hill, in the city of London, Merchant, for an invention of "Improvements in the treatment of cotton and other similar fabrics by the introduction of chemical agents, to supersede the use of dung in the dunging process."—A communication.—Dated 5th October, 1852.

246. George Hallen Cottam, of Charles Street, Hampstead Road, in the county of Middlesex, Engineer, for an invention of "Improvements in chairs, sofas, and bedsteads."—Dated 5th October, 1852.

251. Auguste Edouard Loradoux Bellford, of 16, Castle Street, Holborn, in the city of London, Patent Agent, for an invention of "Improvements in sewing machines."—A communication.—Dated 6th October, 1852.

1st October.

41. Joseph Barrans, of Queen's Road, Peckham, in the county of Surrey, for an invention of "Improvements in steam-engine boilers."—Dated 1st October, 1852.

184. Joseph Needham, of 26, Piccadilly, in the county of Middlesex, Gun Manufacturer, for an invention of "Improvements in breech-loading fire-arms, and in apparatus connected therewith."—Dated 2nd October, 1852.

187. Alexander Miller, of Glasgow, in the county of Lanark, North Britain, Manager, for an invention of "Improvements in the treatment or finish of textile fabrics and materials."—Dated 2nd October, 1852.

214. Thomas Kennedy, of Kilmarnock, in the county of Ayr, North Britain, Gun Manufacturer, for an invention of "Improvements in obtaining and applying motive power, which improvements, or parts thereof, are applicable to timekeepers and clockwork, and for measuring and registering the flow of water and other fluids and aëriform bodies."—Dated 4th October, 1852.

272. Joseph Hill, of Birmingham, in the county of Warwick, Stamper, &c., for an invention of "A machine for stamping metals and forging iron and steel."—Dated 6th October, 1852.

275. Alphonse René le Mire de Normandy, of Judd Street, in the county of Middlesex, for an invention of "Improvements in obtaining fresh water from salt water."—Dated 6th October, 1852.

Erratum in Journal of 30th September.

No. 2109. For "56, Chancery Lane," read "66, Chancery Lane."

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 22nd September, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 596 of this Journal.)

7866. P. E. Ladrange, of Schaerbeek, for "Improvements in apparatus for mincing meat according to Parod's system."—Dated 12th August, 1859.

7921. J. F. Harmegnies, of Dour, for "A system of sewing flat hempen and aloes ropes."—Dated 26th August, 1859.

7938. Vanden Hielakker, of Brussels, for "An apparatus for marking the points at billiard games."—Dated 2nd September, 1859.

7939. Ed. Vienne, of Mons, a Patent of Improvement for "A lift and force beer pump."—Dated 3rd September, 1859.—(Original Patent, 25th April, 1859.)

7940. M. Lebeau, of Dampremy, for "An apparatus for removing glass sheets from the stretching plate."—Dated 5th September, 1859.

7941. V. Fontaine, of Brussels, for "A system of railway sleepers and chairs."—Dated 3rd September, 1859.

7942. J. G. Marshall, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for working up flax, hemp, china grass, &c."—Dated 3rd September, 1859.—(English Patent, 9th March, 1857.)

7943. P. Carmier and E. Masson, represented by H. Biebuyck, of Brussels, for "A system of jointed axles applicable to all carriages."—Dated 3rd August, 1859.—(French Patent, 19th April, 1859.)

7944. R. Destrem, represented by H. Biebuyck, of Brussels, for an imported invention of "Treatment of gold and silver ores."—Dated 3rd September, 1859.—(French Patent, 27th August, 1859.)

7945. L. J. G. Rul, represented by P. Bals, at Brussels, for "An apparatus for preparing malt in distilling or brewing amylaceous, saccharine, and fermenting substances."—Dated 3rd September, 1859.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

7946. J. F. F. Leroux, represented by O. Daillencourt, of Brussels, for an imported invention of "An apparatus for collecting and taking up money."—Dated 3rd September, 1859.

7947. F. Van Campenhout, of Vilvorde, for "A composition for destroying bugs."—Dated 5th September, 1859.

7948. Ed. Daveluy d'Elhougne, of Bruges, a Patent of Improvement for "A process of colouring playing cards."—Dated 5th September, 1859. —(Original Patent, 31st August, 1859.)

7949. F. Calliouw, of Bruges, for "A system of locks."—Dated 8th September, 1859.

7950. M. Defries, represented by Th. Boutillier, of Schaerbeek, for an imported invention of "Improvements in the means of regulating the pressure of gas in burners."—Dated 6th September, 1859.—(English Patent, 16th May, 1859.)

7951. A. Maigne, represented by Th. Bontillier, of Schaerbeek, for "A rolling mill for the manufacture of bricks and tiles."—Dated 6th September, 1859.

7952. J. Edwards, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in saggars for articles of biscuit, fayence, and porcelain."—Dated 6th September, 1859.—(English Patent, 1st March, 1859.)

7953. J. S. Larue, of Brussels, for "Mastic called 'lithophène.'"—Dated 6th September, 1859.

7954. P. E. G. Lécorney, represented by Lahaye, of Brussels, for an imported invention of "So-called 'flower embroidery.'"—Dated 7th September,1859.—(French Patent, 27th December, 1858.)

7955. Ed. Lannoy and Co., of Brussels, a Patent of Improvement for "Gunpowder for blasting rocks 'without explosion.'"—Dated 7th September, 1859.—(Original Patent, 24th March, 1858.)

7956. E. Schlenker and E. Dams, represented by X. Raclot, of Brussels, for an imported invention of "A rotary forge-hammer."—Dated 7th September, 1859.—(American Patent, 29th March, 1859.)

7957. F. J. Manceaux, represented by A. Anoul, of Ixelles, a Patent of Improvement for "A system of bolts applicable to breech-loading fire-arms."—Dated 7th September, 1859.—(Original Patent, 8th October, 1855.)

7958. J. Van Coutereu, of Brussels, for "Improvements in cylinders for roasting coffee."—Dated 8th September, 1859.

7959. J. Brunfaut, of Brussels, for "Manufacturing starch from the waste of rice."—Dated 8th September, 1859.

7960. R. Sauvage de Saint-Marc, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of carriages with jointed frames."—Dated 8th September, 1859.—(French Patent, 13th April, 1856.)

7961. J. Hartley, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in apparatus for regulating the speed of steam-engines."—Dated 8th September, 1859.—(English Patent, 22nd July, 1859.)

962. A. Auer, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in printing-presses."—Dated 8th September, 1859.—(French Patent, 29th August, 1859.)

7963. M. Lapierre, of Brussels, a Patent of Improvement for "Manufacture of gutta percha."—Dated 8th September, 1859.—(Original Patent, 28th May, 1857.)

7964. J. B. Arnou-Flament, represented by Bikadu-Bois, of Schaerbeek, for "Improvements in the construction of stoves."—Dated 8th September, 1859.

7965. J. S. Parfit, represented by X. Raclot, of Brussels, for "A machine for stamping the heads of bolts, screws, and rivets, whilst hot."—Dated 8th September, 1859.

7966. L. de Hault and H. Braas, of Schaerbeek, for "An economical funnel."—Dated 8th September, 1859.

7967. E. Anthoine, of Brussels, for "A kind of petticoat with puffed rollers."—Dated 8th September, 1859.

7968. J. B. P. Gire, represented by A. Crooy, of Brussels, for "A cock for water, steam, and gas."—Dated 8th September, 1859.—(French Patent, 31st August, 1859.)

7969. R. H. Collyer, represented by A. Crooy, of Brussels, for an invention of "Improvements in preparing substances used in the manufacture of paper."—Dated 8th September, 1859.—(French Patent, 2nd August, 1859.)

7970. D. Macaire, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of casks and safety apparatus for preserving liquids."—Dated 9th September, 1859.—(French Patent, 30th July, 1859.

7971. Mrs. Lefevre, née Roulleaux, represented by H. Biebuyck, of Brussels, for an imported invention of "A mode of fastening hair dresses."—Dated 9th September, 1859.—(French Patent, 22nd August, 1859.)

7972. L. Pirotte and Sister, of Brussels, for "A rocking scale."—Dated 9th September, 1659.

7973. J. Gheers, of Ghent, for "Manufacture of a tissue imitating plaited straw."—Dated 10th September, 1859.

7974. F. X. Mayer, represented by D. Tassin, of Liége, for "An apparatus for closing cartridges for breech-loading fire-arms."—Dated 9th September, 1859.

7975. F. Heindryckx, of Brussels, for "A system of railway-chairs."—Dated 12th September, 1859.

7976. W. H. Ward, represented by F. Anthoine, of Brussels, for an imported invention of "A system of sea-telegraphs or signals worked by day and night."—Dated 12th September, 1859.—(French Patent, 6th September, 1859.)

7977. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "A metallic alloy."—Dated 12th September, 1859.—(English Patent, 18th March, 1859.)

7978. D. Evans, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in furnaces of locomotives, and in heating the feeding water of steam boilers."—Dated 12th September, 1859.—(English Patent, 23rd June, 1857.)

7979. J. I. Imbs, represented by A. Crooy, of Brussels, for an imported invention of "A kind of wadded tissue and means of manufacturing the same."—Dated 12th September, 1859.—(English Patent, 23rd June, 1857.

7980. W. Ralston, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of goffering and finishing tissues and machines relating thereto."—Dated 12th September, 1859.—Original Patent, 8th March, 1859.)

7981. A. Baillot, of Saint Josse-ten-Noode, a Patent of Improvement for "A needle holder applicable to sewing machines."—Dated 13th September, 1859.—(Original Patent, 14th June, 1859.)

7982. A. Fichot, represented by X. Raclot, of Brussels, for "A truss."—Dated 13th September, 1859.

7983. D. Evans, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in tubular boilers, and in their furnaces."—Dated 13th September, 1859.—(English Patent, 20th November, 1858.)



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 13th September, 1859, and each bearing that date.

No. 25,375. Henry Adams, of New York, N.Y., for an "Improvement in saddle trees."

"I claim a tree for side or ladies' saddles, constructed by connecting the bars A, A, by a bridge B, at the point herein specified, and with an open space *a* between the front ends of the bars at their junction with the horns C, D, for the purpose set forth."

No. 25,376. Geo. S. Avery, of Cross River, N.Y., for an "Improvement in rails for railroads."

"I claim an improvement in railroad iron bars or rails by an off-set or bend made in one end of the rails and the lapping on of the other end of the rails, and inserting a key between them at the lap, and riveting or bolting them together, substantially as and for the purposes herein described."

No. 25,377. E. S. Bartlett, of Romulus, N.Y., for an "Improvement in ditching plough."

"I claim the combination of the arms D, D, D, brace H, rods *d*, *d*, and blocks F, F, substantially as and for the purpose herein set forth. I also claim the mode of attaching and adjusting the shares E, E, E, by means of the packing blocks *l*, *l*, *l*, in combination with the bolts *b*, *b*, and arms D, D, substantially in the manner specified."

No. 25,378. Andrew F. Blunk, of Indianapolis, Ind., for an "Improvement in straw cutters."

"I claim a straw cutter constructed as herein shown and specified, that is to say, with angular knives T, arms K, wheel E, feed rollers B, C, and D, slides P, S, springs O, band N, pulleys J, J, and endless belt I, when these several parts are constructed and arranged for operation conjointly as and for the purposes described."

No. 25,379. Elias K. Breckenridge, of West Meriden, Conn., for an "Improvement in window sash fasteners."

"I claim the employment or use of two cams B, B¹, placed on a common arbor *b*, with a spring *c*, applied to them and a lever C, the whole being fitted within a frame A, and arranged to operate substantially as and for the purpose set forth."

No. 25,380. Zerah B. Brown and Melvin C. Godard, of Granby, Conn., for an "Improvement in seed planters."

"We claim the arrangement and combination of the carrier and stamping wheels F, F, cams and marker device I, I, upon the wheel F¹, the reciprocal levers H, H, seed slides or valves D, D, hoppers B, B, drill formers J, J, and covering shares K, K, substantially in the manner as and for the purpose described."

No. 25,381. Jonathan S. Buell, of Buffalo, N.Y., for an "Improvement in sewing machines."

"I claim, first, in combination with the stationary corrugated surface O, O, the corrugated foot piece Q, constructed arranged and operating therewith as herein set forth. Second' I also claim in combination with the needle or its thread, the conical spool X, and guide U, for causing the slack in the thread to form the loop, and holding said loop from turning until seized by the looper as herein set forth and explained."

No. 25,382. Stephen Burrows, of Lima., Wis., for an "Improvement in seed drills."

"I claim, 1st, the employment of a grooved ring B, C, fitted on the axle or shaft of a seed drill in combination with the peculiarly constructed tube D, E, leading from the hopper into the groove of the ring substantially as and for the purposes set forth."

No. 25,383. Wm. Campbell, of Waterloo, Pa., for an "Improved churn."

"I claim the perforated and hinged floats F, as an improvement in the construction of dasher heads for churns."

No. 25,384. Rosanna Carpenter, of Medford, Mass., for an "Improvement in extracts of fruits."

"I claim as a new article of manufacture, is, the above described extract of fruit, prepared in the manner substantially as specified."

No. 25,385. Richardson P. Clark, of Johnstown, N. Y., for an "Improvement in hand mill for grinding apples, &c."

"I claim the herein described improved hand mill for household use, in reducing apples, potatoes, and other fruits and roots, to pomace, the teeth *e*, *l*, of the combined cylinder and adjustable and yielding concave, being formed and arranged in the particular manner herein set forth."

No. 25,386. Barnes Clayton, of Philadelphia, Pa., for "Fastenings for shirt studs."

"I claim the hollow sliding case A, and spring B, in combination with the tie or post E, and the bar D, the same being arranged to operate together, substantially in the manner and for the purpose set forth and described."

No. 25,387. P. S. Clinger, of Conestoga, Centre, Pa., for an "Improvement in wire fences."

"I claim the combination of the pin S, with the ratchet T, in connection with the mortised posts Fig. 2, and the hooked wires H, W, when these several parts are substantially as herein described, for the purpose set forth."

No. 25,388. T. T. Collier, and H. W. S. Collier, of Lavernia, Texas, for an "Improvement in cotton seed planters."

"We claim the arrangement of the distributor E, and the stirrer H, constructed as described, to operate in combination with the packing wheel I, substantially as and for the purpose set forth."

No. 25,389. Henry W. Colvin, of Pendleton county, Ky., for an "Improvement in sight for fire-arms."

"I claim the semi-circular form of the fire-sight with its range piece, or bead and shades, and triangular form of the hind-sight, with its needle, or range and shades, substantially as herein described, and for the purpose set forth."

No. 25,390. Geo. Cook, of Paris, Ill., for an "Improvement in rotary harrows."

"I claim the arrangement of the teeth *d*, placed eccentrically on triangular frames E, which rotate on oblique pivots *c*, substantially as and for the purpose specified."

No. 25,391. Solomon Crowell, jr., of Palmyra, N. Y., for an "Improvement in coffee pots."

"I claim the combination of the perforated diffusing chamber C, having a tight, conical bottom *f*, with the concentric, perforated digester D, whereby the coffee is exposed in a thin layer of nearly uniform thickness, to the water percolating nearly uniformly through all parts, for the purposes herein specified."

No. 25,392. Henry Davis, of Baltimore, Md., for an "Improvement in brakes for railroad cars."

"I claim increasing the frictional action of car brakes upon the peripheries of car wheels, by the introduction of sand, or its equivalent between the frictional surfaces at the time that the brakes are brought into contact with the car wheels, substantially as herein set forth."

No. 25,393. David Decker, of New York, N. Y., for an "Improvement in pianoforte actions."

"1st, I claim attaching the relieving jacks regulating screw F^3 directly to the key, or to some part carried by the key, so that the repeating lever shall govern the action of the relieving jack, by or through the said regulating screw, whether constructed in this precise manner, or in an equivalent, for the purpose as herein described. 2d, I claim the groove, in combination with the tongue-pin, or equivalent, for the purpose of keeping the lifting jack in its proper position, in relation to the repeating lever and for preventing any binding or sticking of said repeating lever and lifting jack. 3rd, I claim so arranging the adjustable piece D, and repeating lever E, both, or either of them, so that their regulating screws D^2 and E^3, both or either of them, shall be at or near the end next toward the front of the key, in front of the hammer rail, for the purpose of being thus conveniently placed for regulating."

No. 25,394. Sylvanus A. Denio, of Boston, Mass., for an "Improved prison lock."

"I claim the lock, or part *b*, with its parts *c*, *e*, *i*, and *k*, arranged with each other as described, to move, hold, and lock the bolt *k* in door *l*, when combined, positioned, and secured with lock *h*, which in turn locks the shaft *c*, all by turning a single knob, all parts being constructed and operated in the peculiar manner described, and for the purposes fully set forth."

No. 25,395. Simeon Dodge, jr., and Benjn. Podter, jr., of Marblehead, Mass., for an "Improvet heel for boots and shoes."

"We claim as a new article of manufacture, is, a heel having a concave seat and a flat tread, with its rises united by cement, as set forth."

No. 25,396. Thos. Dougherty, of Macon, Geo., for an "Improvement in switch stand for railroads."

"I claim the combination of eccentric B with the pin C, through lever D to bar E, for the purpose of locking and unlocking the main pin A to and from notches M, M, M, substantially as and for the purpose set forth."

No. 25,397. Eugene Duchamp, of St. Martinsville, La., for an "Improved faucet."

"I claim the arrangement and combination of the oblique slot G, handle F, stem C, and tube A, so that on turning the handle F the stem C will rise and fall with a spiral or screw movement, thus ensuring ease of operation and tightness of packing, as herein shown and described."

No. 25,398. Eugene Duchamp, of St. Martinsville, La., for an "Improved filter."

"I claim the employment of fine-spun glass, arranged in the manner and for the purposes herein set forth, in combination with the reservoir G, floating valve J, chamber E, and pure-water chamber F, essentially in the manner herein represented and described."

No. 25,399. Eugene Duchamp, of St. Martinsville, La., for an "Improvement in apparatus for heating water."

"I claim the combination and arrangement with the false bottom E and tank A of the perforated casing D, fire-chamber C, draft pipe F, smoke pipe H, as and for the purpose herein shown and described."

No. 25,400. John Fasig, of West Salem, O., for an "Improved mop head."

"I claim the herein-named construction of a mop head, consisting of the piece B, with the slot C, and hole D, in combination with the rod E, notches *a*, *e*, screw and nut G, when these several parts are arranged and operated substantially as set forth."

No. 25,401. Jacob Fassnacht, of New Milltown, Pa., for an "Improvement in harness."

"I claim the device of combining the hip-strap and breech band in one continuous piece A for each half, united at B, B, to form the breeching, as herein set forth and described."

No. 25,402. Wm. R. Fee, of Cincinnati, O., for an "Improvement in hydraulic oil presses."

"I claim, 1, the peculiar construction of the dies D^1 and followers D, having the grooves G and conduits G^1, and also the oil passage *d*, to facilitate the expression of oil, substantially as set forth. 2, I claim the solid truss K when made a part of the press and worked by means of the rack and pinion, substantially as set forth, for the purposes described. 3, I claim the hinged hoop F for charging the press, substantas set forth."

No. 25,403. J. H. Frampton, of Hopewell, O., for an "Improvement in cultivators."

"I claim the adjustable share standards G, G, attached to the parallel adjustable bars D, D, which are secured to the beam A by the bars E, E^1, the whole being combined and arranged substantially as and for the purpose set forth."

No. 25,404. Daniel K. France, of Congress, O., for an "Improved churn dash."

"What I claim is, the metallic strips B attached to the convex surface of the slats by slots and screws, and operating in the manner and for the purpose substantially as set forth."

No. 25,405. C. L. Gilpatrick, of Saco, Me., for an "Improved churn."

"I claim the combination of the crank shaft D and staffs B, B, with the top A^1, when said top is provided with boxes (F), in which play slides, through which the staffs pass, the same being arranged and operating substantially as and for the purpose specified."

No. 25,406. Elias J. Hale, of Foxcroft, Me., for an "Improvement in lamp chimneys."

"I claim contracting the chimney above the frame, and admitting at or near the same point, a current of air, in the manner and for the purpose substantially as herein set forth."

No. 25,407. Robert Hale, of Roxbury, Mass., for an "Improved exhaust pipe for steam engines."

"I claim an exhaust pipe, constructed as described, and having an opening B, and a steam pipe C, in combination with a lip *f*, operating in the manner set forth, for the purpose specified."

No. 25,408. Wm. Hamilton, of St. Catherine, Mo., for an "Improved excavators."

"1, in combination with an excavator frame, constructed as described, having the side timbers braced in front only, I claim four wheels, when arranged in relation to the said frame, substantially as described, so that a common cart may either be backed between the hind wheels, or pushed over said wheels and frame under the excavator, when the same is hoisted to be discharged, as specified. 2, the combination of an excavator with a frame, having the rear ends of each of the side timbers bifurcated, for the reception of a wheel, the same being arranged to turn on a journal or pin, extending transversely through the two forks, as de-

scribed. 3, I claim the peculiar arrangement of hanging the excavator to the frame, by means of arms, the same being so pivoted at their ends, respectively, to the excavator and side timbers, as that they shall be exposed to a tensile strain in the draft line, or thereabout, during the excavating operation of the machine, substantially as shown and described."

No. 25,409. Stephen P. Hart, of Boston, Mass., for an "Improvement in barrel syringes."

"I claim the spring g, as applied to the syringe, operating in the manner substantially as set forth."

No. 25,410. Malachi B. Hassler, of Columbia City, Indiana, for an "Improved churn."

"I claim the arrangement of the hinged curved leaf (g) in combination with the wings (f, f^1), constructed and arranged to operate, substantially as described, for the purposes set forth."

No. 25,411. R. K. Hawley, of Baltimore, Md., for an "Improved construction of segmental circular saws."

"I claim a segmental veneer saw, the blades of which are formed, hung, and champed in the manner described."

No. 25,412. David Hinman, of Berea, O., for an "Improvement in grinding the teeth of mowers and reapers."

"I claim the circular grooves a, a, on the faces e, e, of the grindstone, in connection with the standards F, F^1, G, G^1, and holder H, arranged and operating in the manner specified."

No. 25,413. W. W. Hollman, of Eddyville, Ky., for an "Improved mangle."

"I claim the combination of the levers K, J, K^1, J^1, with one of the rolls and balancing lever H, H^1, substantially as and for the purposes set forth."

No. 25,414. Wm. H. Horstman, of Brooklyn, N.Y., for an "Improved mode of manufacturing telegraph cables."

"I claim constructing the cable by the apparatus, substantially as herein described, consisting of the reservoirs, wrapping apparatus, &c., or their equivalents, as specified. I also claim the final reservoir m, for coating a telegraphic cable, after it has passed all the other apparatus, and before it has entered the water or ground, constructed and applied, substantially as herein specified. I also claim the manufacturing of the cable, substantially in the manner described, at the time it is laid, so as to perfect it, and at once launch it into the place where it is to remain, whereby I avoid all the chances for injury and imperfections arising therefrom, growing out of stowing and handling the cable after it has been made, as heretofore has been done."

No. 25,415. A. H. Inskeep, of Middleburg, O., for an "Improvement in harvesting machines."

"I claim, 1st, the arrangement of the revolving spiral cone-shaped cutter or gatherer, with the base of the cone in front, to gather up and draw the grain back to either stationary or reciprocating cutters, substantially as described, for the purpose specified. 2nd, the combination of the spirally formed gatherer or cutter, arranged as described, with the divider D, guards D^1, D^1, and stationary cutters e, substantially as described, for the purposes specified."

No. 25,416. W. D. Johnson, of Raleigh, N. C., for an "Improvement in cultivators."

"I claim the bars A, A, curved so as to form handles at one end, and having horizontal oblique positions to form the body of the frame, the draft bar C and guide or returning bar D, the front ends of the bars A, A, being connected or secured together by the collar or loop B, in combination with the double scraper E, substantially as described, and for the purpose set forth."

No. 25,417. W. D. Johnson, of Raleigh, N. C., for an "Improvement in seeding machines."

"I claim the arrangement of the two distributing slides E, F, with the projections H, H, on the wheels C, C, and two or more compartments in the hopper B^1, inclined tube G, inclined draught bar B, and adjustable roller standard I, substantially as and for the purpose set forth."

No. 25,418. Morris L. Keen, of Rogers' Ford, Pa., for an "Improvement in boilers for making paper pulp from wood."

"I claim a boiler for boiling under pressure wood and ligneous materials for making paper pulp, constructed with an expansion chamber stirrers and discharge valve or cock, arranged for the purposes and in the manner substantially as herein stated."

No. 25,419. Asa M. Keith, of Koscuisko, Miss., for an "Improvement in cultivators."

"I claim the arrangement of the double scraper, the hoe drum and the hillers, or coverers, in their relation to each other, and to the parts of the frame to which they are attached, as and for the purposes herein set forth."

No. 25,420. John C. Kimball, of New Haven, Conn., for an "Improvement in movable tops for carriages."

"I claim so constructing the standards or supports of a standing top carriage and attaching them by means of screws that the top and standards or supports may be readily removed, when the whole is constructed and connected substantially as herein described, and for the purposes herein set forth. 2, I claim the combination of the standards with the body when the standards are secured by being screwed into the upper ends of the studs, and the whole is constructed, arranged, and made to serve the purpose intended, substantially as herein described."

No. 25,421. Nelson J. Knapp, of Chicago, Ill., for an "Improvement in locomotive lamps."

"I claim the combination of the ellipsoidal and paraboloidal reflectors E, D, and burner C, arranged substantially as and for the purpose set forth."

No. 25,422. Jesse Ladd, of Holderness, N. H., for an "Improved machine for arranging pegs."

"I claim a machine or combination, consisting of the following devices, or their mechanical equivalents, viz., 1st, the grooved cylinder D, furnished with a hopper or other proper means of supplying it with pegs. 2nd, the guiding receiver H. 3rd, one or more advancers L, L, and the operative mechanism thereof. 4th, a device or mechanism for discharging from the guiding receiver H the refuse pegs. 5th, the springs N, N, or devices for preventing the discharge of the pegs from the guiding receiver, when they may be disposed therein with their buts in advance of their points. 6th, the receiving spout M. 7th, the peg carrier O; and 8th, mechanism for advancing the pegs through the said carrier. I also claim, in combination with the said machine, or its hopper and grooved cylinder, an agitator D, or means of shaking or agitating the mass of pegs in the hopper or its conductor. I also claim, in combination with the said machine or its receiving spout M, the serrated bar P, operated as described, or mechanism for insuring the descent of the pegs within the receiving spout, as specified. I also claim, in combination with the said machine, or with the receiving spout and peg carrier thereof, the device or part U made to operate in manner and by means substantially as specified. I also claim, in combination with the said machine, or with the receiving spout M thereof, the door R, and its operative mechanism, whereby the surplus pegs may be discharged from the spout after it may have become sufficiently supplied with pegs. I also claim, in combination with the said machine, or its spout M, the finger O^1, or equivalent, to be operated in manner and means, and for the purpose substantially as described."

No. 25,423. Augustus Lafever, of Battle Creek, Mich., for an "Improved board measurer."

"I claim, 1st, the employment or use of the cone gears E, J, and sliding pinions F, L, in connection with an endless toothed or serrated chain T, fitted within a suitable case, arranged with gearing and indexes, and with or without the arm C, and lever D, substantially as and for the purpose set forth. 2nd, the arrangement of the yielding frames H, K, with the pinion F and cone gear J, respectively attached the levers b^1, c^1, g^1, h^1, and racks a^1, f^1, substantially as and for the purpose specified."

No. 25,424. John S. Lash, of Carlisle, Pa., for an "Improvement in dumping cart."

"I claim the employment or use of the curved or segment rack F attached to the rod E, and provided with the ledge i, the pinion g, and hooks l, l^1, arranged for joint operation, as and for the purpose set forth. I further claim the rod H, provided with the spring r, and connected to the sliding or pressure bar I, provided with the arm p, the above parts being applied to the cart and arranged relatively with each

other, to operate substantially as and for the purpose set forth."

No. 25,425. Wm. Lees, of Germantown, Ohio, for an "Improvement in corn planters."

"I claim the cylinders (d, d^1), in combination with the hoppers (c^1, b), with reference to the feed bar (D), arranged to operate substantially as described."

No. 25,426. Ferdinand C. Lighte, of New York, N. Y., for an "Improvement in piano-fortes."

"I claim, 1st, the crystal reverberator G of glass or other material applied below, or at the back of the sound board, in combination with openings a, a, therein, substantially as and for the purpose herein described. 2nd, the insulators f, f, applied between the iron frame or plate G, and the wrest plank and wooden blocking of the instrument, in such manner that the said frame or plate will bear upon the plank and blocking only at few points, substantially as and for the purpose herein described."

No. 25,427. Geo. Lindsey and Wm. Cameron, of Petersburgh, Va., for an "Improvement in tobacco presses."

"We claim a portable hydraulic jack, or other powerful press, so constructed as to be readily applied to an ordinary or to a series of ordinary screw presses, for the purpose described, and adjustable as to height on the track on which it rests, in combination with the railway track E, at right angles with the track B, when said press is used for increasing the pressure of the screw press, and converting it into a retaining press, substantially as and for the purpose described."

No. 25,428. John H. Lyon, of New York, N. Y., for an "Improved lock and detector."

"I claim combining with a padlock or any lock provided with a shackle, a supplemental shackle, arranged with a lead or soft metal tube, so as to be temporarily secured thereby to the lock case, and admitting of being released only by the severing of said tube, which thereby serves as a detector, substantially as described. I further claim forming the lock case A of two parts a, b, with a division plate p between, whereby the construction of the lock is rendered extremely simple, and the invention enabled to be carried out or produced at a moderate cost."

No. 25,429. Murdick Lytle, of Alleghany, Pa., for an "Improved steering apparatus for barges in rivers."

"I claim the application of a wheel C to the bow of a barge, so that said wheel shall revolve at right angles to the direction of the barge, in combination with an apparatus for operating said wheel by the power of the propelling boat, substantially as and for the purposes specified."

No. 25,430. Jacob Maize, of Wooster, O., for an "Improvement in seeding machines."

"I claim the adjustable cultivators K, provided with the arms K^1, guides M, and the adjustable jointed harrow Q, when arranged in relation to each other as described, and acting conjointly with the seeding apparatus, in the manner and for the purpose set forth."

No. 25,431. W. A. McDonald, of Mott Haven, N. Y., for an "Improved dovetailing machine."

"I claim, 1st, the employment or use of spiral saw cutters G, G^1, and G^{11}, G^{111}, attached to the rotating heads F, connected by gearing E, for the purpose specified. 2nd, in combination with the cutters G, G^1, and G^{11}, and G^{111}, the adjustable platform L. And 3rd, the combination of the cutters G, G^1, G^{11}, G^{111}, platform L, and gauge M, operated by the screw c, for the purpose set forth."

No. 25,432. Edmund Miller and Benjn. Miller, of Rising Sun, Ind., for an "Improvement in cultivators."

"We claim the combined arrangement of the guard H, elevated wing I (curved horizontally in two directions), adjusting shank G, and bracket E, F, operating in connection with a shovel plow, in the manner and for the purpose set forth."

No. 25,433. Henry Miller, of Grafton, Virginia, for an "Improved shingle machine."

"I claim the manner of tilting the bed F, as shown, to wit, by means of the adjustable wheel I, on shaft J, actuated by the ratchet K, also on said shaft the pawl L, on the framing A, spring w, attached to the carriage E. and spring t^1, attached to the framing A, and acting on the bed F, the whole being arranged substantially as and for the purpose set forth. I further claim the arrangement of the bed F, and rods G, H, attached to the framing, as shown, to admit of the vertical adjustment of the bed, for the purpose of graduating the thickness of the shingles."

No. 25,434. Jonathan H. Mitchell, of Germantown, Tenn., for an "Improvement in cotton scrapers."

"I claim, first, the combination and arrangement of the beam (d), chair (c), mould board (a), and share (b), when operating substantially as herein set forth. Second, the adjustable and changeable share (b), when constructed, arranged and operating, substantially as and for the purpose set forth."

No. 25,435. Wm. Morrison, of Carlisle, Pa., for an "Improvement in corn planters."

"I claim a corn planter, constructed substantially as shown and specified, that is to say, with the mold boards m, m^1, adjustable cutters or coverers d, d, hopper B, slides q, q, and clearers N and e, when these several parts are constructed and arranged for joint operation, in the manner and for the purpose described."

No. 25,436. Wm. O'Neill, of Pine Level, Ala., for an "Improvement in ploughs."

"I claim the lapping landsides of the plows, and the bar A attached to the beam, as specified, in combination with the bolts, nuts, and braces described, whereby there may be formed at pleasure, a double, or hillside plow, as set forth."

No. 25,437. Wm. O'Neill, of Pine Level, Ala., for an "Improvement in ploughs."

"I claim the arrangement of the adjustable mould boards M, M^1, attached to the share by bolts a, and constructed as described, with braces Z and T, stock S, shares S^1, and point P, substantially as and for the purposes specified."

No. 25,438. Geo. T. Parkhurst, of Baltimore, Md., for an "Improvement in lamps."

"What I claim, is, the flattened air tubes bent at right or other convenient angles, with a slit or opening at the outer angles, in combination with flat wick tubes, and the combination of the above parts with the cap or dome, made and operating substantially as described."

No. 25,439. Stephen B. Peet, of New York, N.Y., for an "Improvement in carriage springs."

"I claim a compound spring, composed of a combination of an elliptic leaf or leaves, and a volute coil, substantially as herein set forth."

No. 25,440. John G. Perry, of Kingston, R. I., for an "Improved sausage stuffer."

"I claim combining the cylinder c, having a spiral cavity or cavities, with the follower D, substantially as described, for the purposes herein set forth."

No. 25,441. Orris Pier, of Ludlow, Vt., for an "Improvement in horse rakes."

"I claim the arrangement and combination of the jointed adjustable bar I, lever H, bar E, rods G, rake F, strap J, and seat I^1, as and for the purpose herein set forth and described."

No. 25,442. Daniel R. Prindle, of Bethany, N. Y., for an "Improvement in boilers and steamers."

"I claim the so turning or forming the flange of the upper section as that it will contain water to prevent the fire from burning the packing between the flanges, substantially as described."

No. 25,443. S. G. Randall, of New Braintree, Mass., for an "Improvement in seeding machines."

"I claim the arrangement and combination of the series of plate wheels D, D, seed boxes A, and horizontal bar B, substantially as herein shown and described, so that as the bar B is drawn along the plate wheels shall assume an oblique position, as set forth."

No. 25,444. J. A. Safford, of Winchester, Mass., and John W. Chase, of North Weare, N. H., for an "Improvement in skiving machines."

"We claim, firstly, hanging the gauge roll K in vibratory frames I, in combination with the spring *h* and retaining spring-catch N and adjustable stops *k*, *l*, the whole arranged and operating as specified, for the purposes set forth. 2dly, We claim, the overlapping knife L, in combination with the adjustable spring apron M, arranged and operating as specified, for the purpose set forth."

No. 25,445. Francis C. Schaffer, of Brooklyn, N. Y., for an "Improvement in carriage tops."

"I claim the arrangement and combination with the curtains D of the hooks (*l*), guides (*d*), and supporters (*c*), as herein shown and described, so that the curtains D may be kept stretched, and be readily lowered or raised and secured overhead within the carriage at any desired point, as set forth."

No. 25,446. Thaddeus S. Scoville, of Rochester, N. Y., for an "Improved spirit level."

"I claim employing a single transparent cell or cistern of spirits or other fluids in combination with the scale C and rectangular stock A, in such a manner that the surface line of the liquid shall indicate both the horizontal and perpendicular with the intermediate degrees, substantially in the manner and for the purposes herein set forth."

No. 25,447. Hervey Sloan, of Franklin, Ind., for an "Improvement in seeding machines."

"I claim, 1st, the arrangement of shanks I, I^1, drag bars K, K^1, levers J, J^1, bar G, rest H, and support *h*, the same being combined and operating substantially as and for the purpose herein specified. 2d, in connection with the subject of the first claim, the arrangement of rollers B, B, seed boxes C, and (D), slides *a* and *d*, *d*, *d*, when the same are constructed substantially as and for the purpose specified."

No. 25,448. C. A. Smith, of Piermont, N. Y., for an "Improvement in railroad car seats."

"I claim, first, the arrangement of the back and bottom of a car seat, as described, so that when the seat is adjusted to an inclined position both parts move together on the same pivot *a*, on which the back moves independent from the bottom when the seat is reversed, substantially as specified. Second, I do not claim the notched arc and spring catch independent from my other arrangements; but I claim the spring catch *e*, notched arc *f*, bottom A, and back D, when the same are arranged and combined as herein described."

No. 25,449. P. M. Smith and T. T. Collier, of Lavernia, Texas, for an "Improvement in cotton seed planters."

"We claim the arrangement and combination of the wheels B, axle C, crank *a*, pulley H, slide D, agitator F, fender bar S, plow-share G, and scraper *h*, substantially as and for the purpose described."

No. 25,450. James C. R. Steirly, of Brooklyn, N. Y., for an "Improved thimble."

"I claim the combination of the thimble and cutter, in the manner and for the purposes set forth."

No. 25,451. David Stuart, of Philadelphia, Pa., for an "Improvement in cooking stoves."

"I claim combining with the hollow cross piece *b* the distributor *a*, constructed and arranged as herein set forth."

No. 25,452. J. H. Swan, of New York, N. Y., for an "Improved folding chair."

"I claim, first, the arrangement of the back E, seat F, and arms G, G, substantially as shown, so that the back and seat, when occupied, will be nearly counterpoised, and the arms C, moved with the seat and back, for the purpose specified. 2d, in combination with the back E, seat F, and arms G, G, the curved legs A, A, B, B, when the whole are arranged substantially as shown so as to admit of being compactly folded."

No. 25,453. James Taylor, of Rushville, Ill., for an "Improved churn."

"I claim the peculiar construction and arrangement of perforated brakes and auxilliary reflectors, in combination with a dasher, having its blades flattened out gradually from near the shaft to their ends, substantially as and for the purposes set forth."

No. 25,454. James S. Taylor, of Danbury, Conn. for an "Improvement in machinery for forming hat bodies."

"I claim the combination of the two perforated cones and exhaust with one picker and seed arrangement, so arranged that the current of impelled fur is alternately shifted from the tip of one cone across on to the tip of the other, in such a manner as to give the required proportions in forming a perfect hat body."

No. 25,455. Geo. W. Tolhurst, of Liverpool, O., for an "Improved washing machine."

"I claim the inside bottom box B, constructed air-tight, so that when the pressure of the upper rubber is removed, it will float, and expose the clothes to be handled."

No. 25,456. M. L. Tourtelett, of Neshonoe Wis., for an "Improvement in seeding machines."

"I claim the combinaton and arrangement of the levers G, H, connected by the traverse rod *e*, the cam I, the slides F, F, and L, for joint operation, for the p urpose set forth."

No. 25,457. Louis S. Ullman, of Nashville, Tenn., for an "Improved hygrometer."

"I claim the combination of the capsule and naturally spiral tail like appendage of either of the plants hercin specified, with an index and dial, or their equivalents, substantially as herein described, to constitute a hygrometer."

No. 25,458. John Van Horne, of Magnolia, Ill., for an "Improvement in machine for weighing grain, &c."

"What I claim is, weighing by means of a round ball, or self-acting weigher 'O,' operating in a concave beam or balance and blocks, and spiral springs 'N, N,' working, in the bottom of the beam, by means of the grooves 'P, P,' so as to weigh different weights or drafts, and board 'H,' combined for the purposes set forth, as herein above described."

No. 25,459. Thos. J. Wallace, of Cameron, Ill., for an "Improvement in machines for raking and loading hay."

"I claim, first, a hay raker and loader, all the parts of which are constructed, arranged, and combined together for joit operation, substanaially as described. Second, the combination of the inclined part A with its pivot *c*, with the part A^1 of the main frame, and sloe *d*, substantially as and for the purposes set forth."

No. 25,460. Hamlin Whitmore and David M. Smith, of Springfield, Vt., for an "Improved carpenter's rule."

"We claim the spiral springs *h*, *h*, applied to the pindle *e* of the joint, in combination with the elastic bearings d^1 of the plates *c*, *c*, provided with notches *f* and projections *g*, as and for the purpose set forth."

No. 25,461. Chas. Whitaker, of Davenport, Iowa, for an "Improvement in corn planters."

"I claim the arrangement of the seed boxes or receptacles F, slides *g*, stationary plates G^1, and movable plate G, with the arms and weights *m*, attached, substantially as and for the purpose set forth."

No. 25,462. J. S. Williams, of St. Louis, Mo., for an "Improvement in grates."

"I claim the combination of the stove grate A, having register plates D, D, and valves H, I, I, which admit unheated air from the room at all times, through the bottom of said plates, but control the flow of heated air into the room, as described with the ordinary fireplace C, when the latter is separated from the flue above by a simple fire-board *b*, in the manner and for the purposes herein described."

No. 25,463. W. B. Williams, of Warrenton, N. C., for an "Improvement in ploughs."

"I claim, 1st, the combination of screw bolts S, nut *n*, in beam B, standard A, cuff *c*, and slotted brace *b*, to regulate the depth of ploughing, substantially as described. 2nd, and, in combination with the above, the curved arm D, for collecting weeds, substantially as described."

No. 25,464. W. B. Williams, of Warrenton, N.C., for an "Improvement in ploughs."

"I claim the combination of standards S, plate P, and oblique wings W., substantially as and for the purpose set forth, with share C."

No. 25,465. ALBERT BROUGHTON, of Malone, N.Y., assignor to himself and A. Lindsay, of same place, for an "Improvement in converting rotary into reciprocating rectilinear motion."

"I claim the combination of the divided journal box F, F¹, containing two bearings, and closed by springs G, G, and the spring I, or toothed plate I¹, with the vibrating pinion shaft E, the whole operating substantially as and for the purpose herein specified."

No. 25,466. J. H. GOULD, of Alliance, O., assignor to himself and E. A. Hartshorn, of Mount Union, O., for an "Improved cover for stove plates."

"I claim the self-erecting handle A, in combination with weight C, arranged essentially as and for the purposes set forth."

No. 25,467. JAMES A. HAMER, of Reading, Pa., assignor to himself and Norris Maris, of Kimberton, Pa., for an "Improvement in brick machines."

"I claim, first, the combination of the blades I¹, and rods L¹, with the valves J¹, and spiral K¹, constructed, arranged, and operating, in relation to each other, substantially as and for the purposes set forth. Second, the combination of the adjustable cover D, with spiral K¹, and trough B, for the purpose of relieving or increasing the pressure upon the clay in the molds, as set forth. Third, the combination of the hinged smoothing piece Q, with the hinged vertically reciprocating piece P, as and for the purposes set forth. Fourth, providing the hinged smoothing piece P, with the slot O, and tube S, as and for the purposes set forth.'

No. 25,468. S. P. LA DUE, of Rockford, Iowa., assignor to Thos. S. La Due, of same place, for an "Improvement in calendar clocks."

"I claim, 1st, the arrangement and combination of the wheels C, D, E, and G, and the ring M and Q, the faces of which are marked with the proper figures and letters, so that they indicate the seconds, the minutes, the hours, and the days of the week and month, substantially in the manner herein specified. 2nd, arranging the wheel G in such a manner that it serves the double purpose of actuating the bell hammer, and to indicate the hours of the day, substantially in the manner described. 3rd, placing the figures and dials on the faces of the driving wheels, to indicate the seconds and minutes, by a continuous motion; also to indicate the hours, either by a continuous or intermittent motion, substantially in the manner described."

No. 25,469. JOSEPH B. OKEY, of Indianapolis, Ind., assignor to himself and Wm. H. Hendrick, of same place, for an "Improvement in straw cutters."

"I claim, 1st, the combination of sliding bar B, when constructed, as set forth, with yoke C, and vibrating bottom D; and, 2nd, the combination of cams F and G, with lever A, when constructed and used as described, all operating substantially as and for the purposes mentioned in the foregoing specification."

No. 25,470. JOSEPH RIDER, of Newark, O., assignor to himself and E. Remington and Sons, of Ilion, N. Y., for an "Improvement in breech-loading fire-arms."

"I claim the combination of the movable breech pin F, and the cap tube E, applied to a pistol, substantially as herein described. And in combination with a hammer of the form herein described, I claim the arrangement of the main spring and trigger, relatively to each other, to the hammer, and to the stock and barrel, substantially as herein described."

No. 25,471. JOSEPH C. SILVEY, of New Orleans, La., assignor to Thos. J. Dobyns, of St. Helena Parish, La., for an "Improvement in sewing machines."

"I claim, 1st, operating the needle arm by means of a grooved eccentric G, and a pin *b* on the needle arm, arranged relatively to each other, to operate in the manner herein described, and illustrated in Fig. 4. 2nd, the construction or arrangement of the portion of the feed plate or table B, through which the needle and the feeding dog work, to form an inclined plane relatively to the direction of the movement of the feeding dog, substantially as herein described and illustrated in Fig. 2, for the purpose set forth. 3rd, the combination of springs R, T, and M, applied in the manner described, to effect the tightening of the stitch, and otherwise control the thread between the perforating needle and its spool by the automatic operation herein explained."

No. 25,472. SETH D. TRIPP, of Stoneham, Mass., assignor to himself and Luther Hill, of same place, for an "Improvement in apparatus for feeding pegs."

"I claim winding up the blank or strip of pegs with the ribbon *f*, so that as the ribbon is wound off by the movement of the machine, the blank will be fed up in the manner substantially as herein set forth. 2nd, I claim hanging the spool I on a vibrating arm F, so that the spool and trough M may follow the motions of the swinging gate or part of the pegging machine to which the trough M is attached."

No. 25,473. ANDREW TURNBULL, of West Meriden, Conn., assignor to himself and James D. Frary, of Meriden, Conn., for an "Improvement in scales."

"I claim, 1st, the combining of the beam lever F with scoop platform C, attached with springs K, rack J, adjustable or fixed pinion *e*, with index or indexes N, attached to its arbor *d*, and traversing over a graduated plate or plates M, substantially as and for the purpose set forth. 2nd, I claim attaching or suspending loosely the rack J to the beam lever F by means of a pivot *f*, and having a spring *g* acting on said rack, in order to keep the same in gear with the pinion *e*, for the purpose set forth. 3rd, I claim attaching the lower end of the spring K to the traverse bar *h* by means of the screw L, and nut *i*, in order to regulate the tension of the spring and preserve its uniformity, substantially as and for the purpose set forth. 4th, I claim in combination with the beam lever F, spring K, and indexes N, connected with the beam lever, the stop *j*, on the arbor B, for the purposes specified."

No. 25,474. O. H. WATERS, of Baltimore, Md., assignor to Alfred Hunter, of Washington, D. C., for an "Improved clothes dryer."

"I claim the combination and arrangement of the adjustable grooved post B, its radial arm F, and box H, with box A, cylinder B, and protector K, the whole being constructed in the manner and for the purpose herein set forth."

No. 25,475. LEWIS WHITE, of Hartford, Conn., assignor to himself and Daniel McLaughlin, of New York, N. Y., for an "Improvement in lamps."

"I claim the application and arrangement of the operating gears when placed in the manner and for the purpose as herein described. I also claim the movable flaps B, B, in the manner and for the purpose substantially as herein described."

RE-ISSUES.

WILLIAM FULTON, of Cranberry, N. J., for an "Improvement in lamps." — Patented 3rd August, 1858.—Re-issued 13th September, 1859.

"I claim, 1st, the perforated plate or air distributor C, or its equivalent, as shown in Fig. 2, for the purpose of regulating the elastic force of the air, so that it may be presented evenly to the flame (when applied to flat wick lamps), it being placed horizontal. 2nd, I claim the perforations *b* in the lower part of the cap D, as shown at Fig. 1, in combination with the perforated or air distributing plate C, as shown in Fig. 2. 3rd, I claim the register formed of the perforations, *e* in the top A, as shown in Fig. 3, in combination with the perforated plate or air distributor C, as shown in Fig. 2, and the holes *b* in the lower part of the cap D, as shown in Fig. 1, the whole being arranged substantially as and for the purpose described."

P. A. PALMER, of Troy, N. Y., for an "Improvement in heating elevated ovens,"—Patented 24th September, 1850. — Re-issued 13th September, 1859.

"I claim the arrangement and combination of revertible flues in elevated ovens of cook stoves, with partition walls, in the manner as and for the purpose herein described and set forth. I also claim the arrangement and combination of the oven plate (*c*), in and with the inner plate and ends of the oven, as and for the purpose herein described and set forth. I claim the arrangement of the damper (*e*) immediately between the main part of the stove and the bottom or lower part of the elevated oven, thereby combining it with said oven, the stove and the double fluc (*c*), for the purpose of controlling and regulating the heat in its passage into the flues of the said elevated oven, as herein described, disclaiming any damper found in any stove not having an elevated oven, as herein set forth."

HENRY B. GOODYEAR, of New York, N. Y., administrator of Nelson Goodyear, deceased, for an "Improvement in the manufacture of India fabrics."—Patented 13th May, 1845.—Extended for 7 years from 13th May, 1859.—Re-issued 13th September, 1859.

"I claim making fabrics by thoroughly intermingling and incorporating the shearings or clippings of fibrous substances with the gum, while rendered plastic by heat, substantially as and for the purpose specified."

DESIGN.

HENRY HEBBARD, of New York, N. Y., for "Design for the handles of spoons, forks, &c."

"I claim the use of the ornamental devices herein-before described, for the purpose of ornamenting the handles of spoons, forks, and other articles of table cutlery, whether made of silver or other metal."

EXTENSIONS.

C. J. WOOLSON, of Cleveland, Ohio, for an "Improvement in cooking stoves."—Patented 9th September, 1843.

"I claim the forming of the bottom plate of the oven with a number of tubes or boxes usually of sheet iron or other substance thinner than the bottom plate, that desend from it through the lower flue space, the same being effected under an arrangement of their respective parts, substantially the same with that herein described, and for the purpose set forth."

FREDERICK E. SICKELS, of New York, N. Y., for an "Improvement in the mode of tripping cut-off valves."—Patented 19th September, 1845.

"I claim tripping the drop valve of the cut-off by a motion independent of the lifters, substantially in the manner and for the purpose herein described. I also claim combining the wiper that drops the valve of the cut-off, whether working horizontally or vertically with any of the moving parts of the engine other than the lifters or their rocking shaft by means of the sector and arm or arms, by means of which the extent of the cut-off can be regulated at pleasure during the action of the engine from the full to the least portion of the stroke, as herein described."

LIST of SPECIFICATIONS, &c. published during the week ending 30th September, 1859.

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550	7*d.*	Preparation of materials for the manufacture of paper, &c.
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555	3*d.*	Stay fastening.
556	6*d.*	Barometers.
557	9*d.*	Grease boxes and bearings.
558	10*d.*	Weaving.
559	1*s.* 10*d.*	Steam engines for propelling ships and vessels.
560	6*d.*	Machinery for cutting and finishing the surfaces of woollen and other fabrics.
561	3*d.*	Manufacture of pipe stems, cigar stems, &c.
562	6*d.*	Coats.
563	3*d.*	Rotating window sashes.
564	3*d.*	Breech-loading fire-arms.
565	3*d.*	Machine for cutting or mincing meat, vegetables, &c.
566	7*d.*	Fire-arms.
567	3*d.*	Shuttles for looms.
568	3*d.*	Manufacture of soap.
569	3*d.*	Manufacture of paraffine candles.
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571	3*d.*	Apparatus for raising and lowering coffins, &c.
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Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
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Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
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B. WOODCROFT,
Superintendent of Specifications, &c.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 1st October, 1859.

Mornings - - - -	1266
Evenings - - - -	934
Total - - -	2200

Since the opening of the Museum Free Daily (May 12, 1858,)—147,145.

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Great Seal Patent Office,
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 601. FRIDAY, OCTOBER 7, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1739. To DEIDAMIA B. HALE, of the city and state of New York, in the United States of America, for the invention of "A new and useful garment for ladies wear, being a combined waist or body and a skirt supporter and bustle."—Partly a communication from Albert W. Hale, of New York aforesaid.

On his petition, recorded in the Office of the Commissioners on the 26th day of July, 1859.

2024. To JEAN BAPTISTE HENRI HONORÉ RAYMOND BARRE and JEAN BAPTIST MARIE ERNEST BARRE, of Paris, 27, Rue de Penthièvre, Merchants, for the invention of "Improvements in cutting out or engraving metals and their alloys."

On their petition, recorded in the Office of the Commissioners on the 5th day of September, 1859.

2058. To MATTHEW MURRAY JACKSON, of Zurich, in the Republic of Switzerland, Engineer, for the invention of "Improvements in generating steam for condensing engines."

On his petition, recorded in the Office of the Commissioners on the 9th day of September, 1859.

2086. To ERNEST AUGUSTE FREDERIC LEBOURGEOIS, of Suresnes, France, Mechanician, for the invention of "An improved machine for providing with pin points the blocks employed for surface printing on calico, paper, or other similar materials."

2088. And to ALEXANDER BANKIER FREELAND, of Camden Road Villas, in the county of Middlesex, for the invention of "Improvements in preparing hay and clover for food for horses and other animals."

On both their petitions, recorded in the Office of the Commissioners on the 13th day of September, 1859.

2092. To JOHN MARRITT, of Sutton, in the county of York, for the invention of "An improved double-action rotating harrow."

2094. To RICHARD CHRISTOPHER RAPIER, of Newcastle-upon-Tyne, in the county of Northumberland, Engineer, for the invention of "Improvements in the construction of steam boilers."

2096. To NATHAN DEFRIES, of No. 5, Fitzroy Square, in the county of Middlesex, Gas Engineer, for the invention of "Improvements in gas meters."

2098. And to AUGUSTUS APPLEGATH, of Dartford, in the county of Kent, Engineer, for the invention of "Improvements in machinery for printing and for cutting printed paper into sheets."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of September, 1859.

2100. To JOSEPH ADDENBROOKE, of the city of London, Manufacturer, for the invention of "An apparatus for wrapping, folding, or packing up goods or parcels."

2102. To JOSEPH THOMAS WOOD, of the Strand, in the city of Westminster, Embosser and Publisher, for the invention of "Improvements in printing and embossing dies."

2104. And to JOHN PRETTY CLARKE, of King Street Mills, Leicester, for the invention of "Improvements in the manufacture of spools or reels for the winding on of cotton, linen, thread, silk, or other fibrous materials."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of September, 1859.

2106. To JAMES BOTTOMLEY, of North Bierley, near Bradford, in the county of York, Manufac-

turer, and ALEXANDER HENNAH MARTIN, of the same place, Mechanic, for the invention of "Improvements in means or apparatus employed in weaving."

2108. To BERNARD LAUTH, late of Pittsburg, Pennsylvania, but now of Manchester, in the county of Lancaster, Mechanician, for the invention of "Improvements in the manufacture of rails for railways."

2112. And to JOSEPH BECK, of the firm of Smith, Beck, and Beck, of Coleman Street, in the city of London, for the invention of "Improvements in stereoscopes."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of September, 1859.

2114. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "Improvements in mechanical hammers."—A communication from abroad by Jean Schmerber, of Haut Rhin, in the empire of France.

2116. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for the invention of "An automaton bell for the prevention of collisions at sea."—A communication from abroad by Gallois Foucault, of St. Martin, in the empire of France.

2118. To JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, (Patent Agent), for the invention of "Improvements in cooling apparatus for liquids, especially beer."—A communication from abroad, by Jean Louis Baudelot, Paris, in the empire of France.

2120. And to JOHN JAMES KERR, of Twickenham, in the county of Middlesex, for the invention of "Improvements in the manufacture of cartridges containing shot."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of September, 1859.

2124. To EDWARD HENRY TAYLOR, of Saltney, in the city of Chester, Wagon Builder, for the invention of "Improvements in the mode of securing the bolts in fish joint and other fastenings for rails on railways."

2126. To JOHN HAWKINS, of Lisle Street, London, in the county of Middlesex, and of Walsall, in the county of Stafford, Bit, Spur, and Stirrup Manufacturer, and CHARLES HAWKINS, of Walsall aforesaid, Manager of the Works of the said John Hawkins, for the invention of "Improvements in fly presses to be worked by steam, water, or other power."

2128. To ROBERT MCCALL, of the city of Dublin, Civil Engineer, for the invention of "Improvements in obtaining precipitates of copper, parts of which improvements are applicable to the production of yellow ochre."

2130. To THOMAS CHARLES EASTWOOD, of Bradford, in the county of York, Woolcomber, for the invention of "Improvements in means or apparatus for preparing and combing wool, cotton, and other fibres."

2134. To WILLIAM CLAR, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Certain improvements in electro-magnetic telegraphs."—A communication from abroad by Mr. Leverett Bradley, of Folsom City, in the county of Sacramento, and state of California, Doctor of Medicine.

2136. And to JOHN COURT, of Brompton Row, in the county of Middlesex, for the invention of "Improvements applicable to gas and other lamps and lights, and also gas stoves for effecting more complete combustion therein."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of September, 1859.

2140. To WILLIAM MCILWRAITH, of Glasgow, in the county of Lanark, North Britain, Weaving Foreman, for the invention of "Improvements in weaving."

2142. And to ANDREW LAMB, of Southampton, in the county of Hants, Engineer, for the invention of "An improved method of heating the feed water for boilers."

On both their petitions, recorded in the Office of the Commissioners on the 20th day of September, 1859.

2155. To THOMAS FIELD, Stay Cleaner, of No. 5, Rose Gardens, Hammersmith, in the county of Middlesex, for the invention of "A new means and system for cleaning, ironing, pressing, and glazing women's stays, corsets, supporting bands, mens jackets, coats, trousers, and waistcoats, chintzs, laundry work (that is to say goods and articles generally washed by laundresses), window blinds and textile fabrics generally."

2157. And to JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the city of London, for the invention of "Improvements in purifying sewage and other impure waters, and in separating therefrom materials suitable for use as manure and also the preparation of a substance to be employed for such purposes."

On both their petitions, recorded in the Office of the Commissioners on the 22nd day of September, 1859.

2159. To LÉON CASTELAIN, of No. 53, Newman Street, Oxford Street, and CHARLES FRÉDERIC VASSEROT, of No. 45, Essex Street, Strand, both in the county of Middlesex, for the invention of "A novel application of a plant to the manufacture of pulp for paper and millboard, and in the method of treating the same when so applied."

2161. And to CHARLES JAMES PARRY, of the firm of Parry and Briddon, of the city of Manchester, in the county of Lancaster, Shirt Front and Collar Manufacturers, for the invention of "Improvements in diamond shirt fronts."

On both their petitions, recorded in the Office of the Commissioners on the 23rd day of September, 1859.

2163. To JEAN JACQUES BOURCART, of Guebwiller, Haut Rhin, France, but now residing at Manchester, in the county of Lancaster, Spinner, for the invention of "Improvements in machinery or apparatus for opening, cleaning, carding, and drawing cotton and other fibrous materials."

2165. To ALPHONSE RENÉ LE MIRE NORMANDY, of No. 67, Judd Street, Brunswick Square, London, in the county of Middlesex, Analytical Che-

mist, for the invention of "Improvements in the application of steam for cooking food."

2167. To Charles Lambert, of Sunk Island, in the East Riding of the county of York, Farmer, for the invention of "Improvements in machines or apparatuses for cutting and pulping food for cattle and for other like purposes."

2169. To Thomas Robinson, of St. Helen's, Lancashire, Iron Founder, for the invention of "Improvements in steam hammers."

2171. To Joseph Tunnicliff Pope, of Burslem, in the county of Stafford, Potter, for the invention of "Improvements in the manufacture of marbles."

2173. And to Joseph Opie, of Tremar, in the county of Cornwall, Fuse Manufacturer, for the invention of "Improvements in instruments or apparatus for charging holes in blasting operations, parts of which are also applicable for like purposes."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of September, 1859.

2175. Robert William Sievier, of Upper Holloway, in the county of Middlesex, but now residing in the city of Hamburgh, for the invention of "Improvements in the means of creating a draught, so as to remove the gases which may be produced by combustion, or from places where gases may be generated where they may be detrimental to health."

2177. To David White, of 18, High Holborn, in the county of Middlesex, Gas Fitter and Engineer, for the invention of "Increasing the illuminating and heating powers of gases, and regulating the flow of gases, and improvement in the material for gas meters, and improvement in glass and cylinder holders."

2179. And to Joseph Villet-Collignon, Literary Man, and Louis George, Typographer, of Paris, 29, Boulevart St. Martin, in the empire of France, for the invention of "Improvements in the typography."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of September, 1859.

2181. To William Airey, of Brighouse, in the county of York, and James Clayton, of Golcar, in the same county, for the invention of "Improvements in machinery or apparatus for preparing silk, wool, cotton, flax, or other fibrous substances for spinning."

2183. To Thomas Birtwell and Richard Marshall, both of Padiham, in the county of Lancaster, Farmers, for the invention of "An improved arrangement of apparatus to facilitate the putting on of boots to the feet."

2185. To John Spalding Parfitt, of Paris, 60, Boulevart de Strasbourg, Practical Engineer, for the invention of "An improved machine for heading bolts, rivets, screws, and other similar articles requiring to be headed whilst hot."

2187. And to Thomas Beards, of Stowe, in the county of Bucks, for the invention of "Improvements in ploughing and cultivating land by steam power, and in machinery used for such purposes."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of September, 1859.

2189. To William Maltby, of De Crespigny Park, Camberwell, in the county of Surrey, Gentleman, for the invention of "An improved mode of producing starch-gum."

2191. To Edward Kenworthy Dutton, of Sale, in the county of Chester, Mechanical Draughtsman, for the invention of "Certain improvements in 'governors,' particularly adapted to steam engines."

2193. To Thomas Sutton, of St. Brelade, in the island of Jersey, Gentleman, for the invention of "Improvements in the construction of apparatus for taking photographic pictures, consisting of and entitled 'an improved panoramic lens for taking photographic pictures.'"

2195. To William Henry Phillips, of Nunhead, Peckham, in the county of Surrey, Engineer, for the invention of "Improvements in apparatus for generating and regulating heat, applicable to culinary and other purposes."

2197. To George Evans and Edward Huxley, both of No. 12, Old Cavendish Street, Cavendish Square, in the county of Middlesex, for the invention of "Improvements in the construction of hernial trusses and pads adapted to surgical purposes generally."

2199. To Manuel Leopold Jonas Lavater, of the Strand, in the county of Middlesex, India Rubber Manufacturer, for the invention of "Improvements in apparatus known as injection bottles, and in pneumatic discs used in apparatus for adhering to glass and other impermeable substances."

2201. And to David Stewart, of Newcastle-on-Tyne, in the county of Northumberland, and of Bombay, in the East Indies, Engineer, for the invention of "Improvements in presses used for pressing goods."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of September, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

7th October, 1859.

866. Alexander Chaplin, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in steam boilers."—Dated 7th April, 1859.

876. William Campion, of the town and county of the town of Nottingham, Machine Builder, of the firm of W. W. Campion, of the said town, Machine Builders, for an invention of "Improvements in machinery for the manufacture of looped fabrics."—Dated 8th April, 1859.

877. Matthew Wheeldon, of No. 174, Liverpool Road, Burslem, in the county of Stafford, Glass Cutter, for an invention of "An improvement in looking glasses and mirrors."—Dated 8th April, 1859.

879. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "Improvements in the treatment of mineral phosphates of lime."—A communication from B. de Siebenthal, a person residing in Paris.—Dated 8th April, 1859.

881. William Hooper, of Mitcham, in the county of Surry, India Rubber Manufacturer, for an invention of "Improvements in insulating and protecting telegraphic conductors."—Dated 8th April, 1859.

882. William Hooper, of Mitcham, in the county of Surry, India Rubber Manufacturer, for an invention of "Improvement reworking or re-manufacturing compounds of india rubber and sulphur."—Dated 8th April, 1859.

888. Thomas Barnett, of Oldham, in the county of Lancaster, Henry Turner Sourbuts and William Loynd, of Hyde, in the county of Chester, Engineers, for an invention of "Improvements in steam engines."—Dated 9th April, 1859.

890. John Hawkins, of Lisle Street, London, in the county of Middlesex, and of Walsall, in the county of Stafford, Bit, Spur, and Stirrup Manufacturer, for an invention of "Certain improvements in the manufacture of stirrups, bits, spurs, buckles, and other such like articles connected with harness and saddlery."—Dated 9th April, 1859.

893. John Martin, of No. 4, Buckingham Street, Islington, in the county of Middlesex, Manufacturer, for an invention of "Improvements in the materials used in the manufacture of bonnet fronts and ruches."—Dated 9th April, 1859.

905. William Rowan, of the firm of John Rowan and Sons, of Belfast, in the county of Antrim, Engineers, for an invention of "Improvements in spinning flax, hemp, and other fibrous materials."—Dated 11th April, 1859.

906. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in candle moulds."—A communication from Auguste Godchaux, residing at Paris.—Dated 11th April, 1859.

907. William Southern Clark, of Aberdare, in the county of Glamorgan, Mining Engineer, for an invention of "Improved means of loading ships or vessels with coal and of separating or removing small coal therefrom."—Dated 11th April, 1859.

909. John Marland, of Southport, in the county of Lancaster, for an invention of "An improvement in the manufacture of cop tubes."—Dated 11th April, 1859.

912. Patrick Aitchison, Brass Founder, of Sheffield, in the county of York, for an invention of "Improvements in taps." — Dated 12th April, 1859.

918. Mathieu Castay, of Paris, in the empire of France, Clergyman, for an invention of "Improvements in metallic bridges."—Dated 12th April, 1859.

921. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in the preparation of red dyes."—A communication from abroad by Messieurs Renard Frères, of Lyons.—Dated 12th April, 1859.

922. Samuel Tatton, of Leek, in the county of Stafford, Silk Dyer, for an invention of "Improvements in preparing and treating silk, and improvements in dyeing silk."—Dated 12th April, 1859.

923. Richard Emery, of No. 6, King Street, St. James's Square, in the city of Westminster and county of Middlesex, Gentleman, for an invention of "Certain improvements in carriages for common roads."—Dated 13th April, 1859.

928. William Craft, of No. 12, Cambridge Road, Hammersmith, and Thomas Wilson, of Bradmore House, Chiswick, both in the county of Middlesex, for an invention of "Improvements in the manufacture of pinafores and bibs for children."—Dated 13th April, 1859.

929. Alfred Richard Johnson, of St. John's Wood, in the county of Middlesex, Gentleman, for an invention of "An instrument for damping, severing, and affixing postage and other like stamps."—Dated 13th April, 1859.

930. John Ambrose Coffey, of 4, Providence Row, Finsbury, in the county of Middlesex, Engineer, for an invention of "Improvements in apparatus for heating liquids."—Dated 13th April, 1859.

932. John Lee Stevens, of No. 1, Fish Street Hill, in the city of London, Civil Engineer, for an invention of "Improvements in the fire grates of locomotive marine and other furnaces."—Dated 13th April, 1859.

933. John Hughes, William Williams, and George Leyshon, of Brockmoor Works, Brierley Hill, Staffordshire, for an invention of "Improvements in the manufacture of tin and terne plates."—Dated 13th April, 1859.

946. Germain Abeillou, of Toulouse, a town of France, Joiner's Tool Manufacturer, for an invention of "An extensible arching plane."—Dated 15th April, 1859.

952. Henry Barrow, of Birmingham, in the county of Warwick, Sadler, for an invention of "A new or improved fastening for fastening trunks, boxes, and articles of dress, and for such other purposes as the same is or may be applicable to."—Dated 16th April, 1859.

956. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in apparatus for separating metals from their ores and other matters." — A communication from abroad by Henri François Toussaint, Chemist, and Louis Napoleon Langlois, Civil Engineer, both of Paris.—Dated 16th April, 1859.

967. Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "An improved machine for raising water." — A communication from abroad by M. Dupré, of No. 10, Rue Mogador, Paris, in the empire of France.—Dated 18th April, 1859.

1045. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the manufacture of nitric acid, and its application for the production of artificial nitrous or nitric salts."—A communication from abroad by Madame Lefebvre, of Paris, in the empire of France.—Dated 26th April, 1859.

1050. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in machinery or apparatus for combing wool and other fibrous substances."—A communication from abroad, by Cullen Whipple, of the city and county of Providence, in the state of Rhode Island, United States of America.—Dated 26th April, 1859.

1067. Robert Harrington, Watchmaker, of No. 3, Colonnade, Albany Road, in the parish of Camberwell, county of Surrey, for an invention of "Improvements in umbrellas and parasols."—Dated 28th April, 1859.

1120. Jacob Geoghegan Willans, of 2, Clarence Place, Belfast, for an invention of "Improvements in utilizing bog stuff or peat, when applied for treating metals and certain mineral and alkaline substances."—Dated 4th May, 1859.

1204. William Sparks Thomson, of New York, in the United States of America, but now of St. Martin's-le-Grand, London, Skirt Manufacturer, for an invention of "Improvements in the manufacture of hooped skirts."—Partly a communication from abroad by William Wilmot, of New York, in the United States of America.—Dated 13th May, 1859.

1270. Frederick Joseph Bramwell, of Great George Street, Westminster, in the county of Middlesex, for an invention of "Improvements in apparatus for raising ships and vessels out of the water."—Partly a communication from abroad by Messrs. Miers Brothers and Maylor, of Rio de Janeiro.—Dated 23rd May, 1859.

1297. Charles Edwards Amos, of the Grove, in the Borough of Southwark, Engineer, for an invention of "Improved apparatus for raising vessels for repair, and for floating vessels in shallow water."—Dated 25th May, 1859.

1318. Thomas Wilson, of Birmingham, in the county of Warwick, Engineer, for an invention of "Improvements in breech loading fire arms and ordnance."—Dated 28th May, 1859.

1412. William Sellers, of Philadelphia, in the state of Pennsylvania, one of the United States of America, Engineer and Machinist, for an invention of "Improvements in ovens for baking bread or other substances which improvements are also applicable for drying, annealing, and other analogous purposes."—Dated 10th June, 1859.

1552. George Baker, of Birmingham, in the county of Warwick, for an invention of "Improvements in the manufacture of metallic lattice or trellis work."—A communication from abroad by Owen Carraway, late of New York.—Dated 29th June, 1859.

1572. Edwin Archer Wood, of Victoria Terrace, Notting Hill, in the county of Middlesex, of the Peninsular and Oriental Steam Navigation Company, and Martin Dadd Rogers, of Bromley, in the county of Middlesex, Shipwright, for an invention of "Improved apparatus for raising and lowering boats."—Dated 1st July, 1859.

1592. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in the process of and improved apparatus for separating metals from their ores."—A communication from abroad by Lewis Solomon, of New York, in the United States of America.—Dated 4th July, 1859.

1597. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improved apparatus for moving iron or other metals while the same is in process of manufacture at the rolls."—A communication from abroad by Charles Hewitt, of the city of Trenton, in the state of New Jersey, one of the United States of America.—Dated 5th July, 1859.

1843. John Dyer Bryant, of Rock, in the county of Cornwall, Merchant, for an invention of "Improved superphosphate of lime."—Dated 9th August, 1859.

1872. John Stuart, of Musselburgh, in the county of Mid Lothian, North Britain, and William Stuart, of the same place, Manufacturers, for an invention of "Improvements in nets for fishing and for other purposes."—Dated 13th August, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 5th October, 1859, inclusive.*)

26th September.

2266. William Smith, of Skinner Street, Snow Hill, in the city of London, and Nathaniel Fortescue Taylor, of Stratford, in the county of Essex, Gas Engineers, for an invention of "Improvements in apparatus for measuring gas and other fluids, and in regulating the flow of the same."—Dated 27th September, 1856.

4th October.

2389. George William Varnell, Assistant Professor, Royal Veterinary College, Camden Town, for an invention of "Improvements in mounting troughs, mangers, and apparatus used for feeding horses and other animals."—Dated 11th October. 1856.

5th October.

2352. Francis Whitehead, of Crayford, in the county of Kent, Draughtsman, for an invention of "A method of and apparatus for producing devices in or on wood, leather, and other similar surfaces, whether for ornamenting the same, or for the production of printing and embossing surfaces therefrom."—Dated 8th October, 1856.

2358. David Joy, of Leeds, in the county of York, Engineer, and William Holt, of the same place, Organ Builder, for an invention of "Improvements in hydraulic motive power engines, and the application thereof to certain useful purposes."—Dated 8th October, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 5th October, 1859, inclusive.*)

1st October.

324. Thomas Restell, of the Strand, in the city of Westminster, Watchmaker, for an invention of "Certain improvements in chronometers, watches, and clocks, part of which improvements is applicable to roasting-jacks."— Dated 9th October, 1852.

3rd October.

234. John Balmforth, William Balmforth, and Thomas Balmforth, all of Clayton, in the county of Lancaster, Ironmasters, for an invention of "Improvements in steam-boilers, and in fixing the same."—Dated 5th October, 1852.

4th October.

280. William Bissell, of Wolverhampton, for an invention of "An improved cramp or improved cramps for cramping floors, doors, and joiners' and ship work generally."—Dated 7th October, 1852.

565. William Henry Fox Talbot, of Lacock Abbey, in the county of Wilts, Esquire, for an invention of "Improvements in the art of engraving."—Dated 29th October, 1852.

5th October.

330. Henry Moorhouse, of Dewton, in the county of Lancaster, Tailor, for an invention of "Improvements in machinery or apparatus for cleaning woollen, cotton, or linen rags and waste, which machinery or apparatus is applicable to cleaning and tempering clay or other similar purposes."—Dated 11th October, 1852.

400. Simon Pincoffs, of Manchester, in the county of Lancaster, Manufacturing Chemist, and Henry Edward Schunck, of Rochdale, in the county of Lancaster, Doctor of Philosophy, for an invention of "Improvements in the treatment of madder and other plants of the same species, and of their products for the purpose of obtaining dyeing materials."—Dated 15th October, 1852.

Erratum in Journal of 4th October.

No. 1314. For "Farrence" read "Farrance."

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

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THE

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No. 602. TUESDAY, OCTOBER 11, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1323. JOHN BAPTY, of Leeds, in the county of York, Foreman, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "An improved mode of, and apparatus for, manufacturing felted cloth."

As set forth in his petition, recorded in the said office on the 28th day of May, 1859.

1325. And ARCHIBALD SMITH, Engineer, of 69, Princes Street, Leicester Square, London, has given the like notice in respect of the invention of "Improvements in machinery for making lines, ropes, and cables for telegraphic and other purposes."

1326. And WESTON GRIMSHAW, of Bowdon, in the county of Chester, Gentleman, has given the like notice in respect of the invention of "Certain improvements in machinery for compressing bricks, tiles, artificial fuel, and other similar articles."

1330. And JAMES FRY, of Wrotham, Sevenoaks, in the county of Kent, Miller, has given the like notice in respect of the invention of "An improvement in mills for grinding."

As set forth in their respective petitions, all recorded in the said office on the 30th day of May, 1859.

1339. And WILLIAM SMITH, of Nos. 18 and 19, Salisbury Street, Adelphi, Civil Engineer, has given the like notice in respect of the invention of "Apparatus for raising and docking ships and other similar purposes."—A communication from abroad by Mr. John W. Nystron, a citizen of the United States of North America, at present residing in Russia.

1340. And JAMES SEPTIMUS COCKINGS, Civil Engineer, of Ann Street, Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in the construction of self-adjusting cases for holding and carrying cartridges of various sizes or guages, parts of which improvements are also applicable to cartridge-carriers now in use."

1343. And JAMES WANSBROUGH, of Bridge Street, in the borough of Southwark, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of stereoscopes."—A communication from abroad by Egbert Moxham, of Bruges, in the kingdom of Belgium.

As set forth in their respective petitions, all recorded in the said office on the 31st day of May, 1859.

1349. And JEAN FELIX MIQUEL, of Paris, France, Physician, has given the like notice in respect of the invention of "Improvements in trusses."

As set forth in his petition, recorded in the said office on the 1st day of June, 1859.

1354. And SAMUEL WOOD and JOHN WOOD, both of the city of Manchester, Embroiderers, and PHILLIP BILLINGTON, of Rusholme, near the city of Manchester, Mechanic, have given the like notice in respect of the invention of "Certain improvements in, and applicable to, machines for embroidering."

As set forth in their petition, recorded in the said office on the 2nd day of June, 1859.

1366. And HERBERT NEWTON PENRICE, of Witton House, near Norwich, has given the like notice in respect of the invention of "Improvements in machinery for propelling vessels."

1370. And ALEXANDER ROBERTSON ARROTT, of Saint Helen's, in the county of Lancaster, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of soda."

1371. And James Burrow, of Ashford Parsonage, Bakewell, in the county of Derby, Clerk in Holy Orders, and William Newton Wilson, of 144, High Holborn, in the county of Middlesex, have given the like notice in respect of the invention of "An improved floor scrubber and sweeper for carpets, floors, lawns, and other such like useful purposes."

As set forth in their respective petitions, all recorded in the said office on the 3rd day of June, 1859.

1377. And George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "An improvement in wearing apparel."—A communication from abroad by Gabriel Jean Julien Laury, of Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 4th day of June, 1859.

1384. And Willoughby Green, of No. 2, Victoria Street, in the city of London, and of Leeds, in the county of York, has given the like notice in respect of the invention of "Improvements in mowing machines."

As set forth in his petition, recorded in the said office on the 6th day of June, 1859.

1385. And Charles Pooley, of the city of Manchester, Cotton Spinner, has given the like notice in respect of the invention of "Improvements in machinery for preparing to spin, and for spinning cotton and other fibrous materials."

1388. And William Bryer Nation, of Union Row, Union Bridge, Rotherhithe, London, Analytical Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of superphosphate of lime."

As set forth in their respective petitions, both recorded in the said office on the 7th day of June, 1859.

1404. And Joseph Henry Tuck, of 34, Great George Street, Westminster, has given the like notice in respect of the invention of "Improvements in breakwaters, sea walls, and like structures."

1405. And Enos Wellsford, of Bona, Algeria, Proprietor, has given the like notice in respect of the invention of "Improvements in tanning."

As set forth in their respective petitions, both recorded in the said office on the 9th day of June, 1859.

1423. And Henry Lee Corlett, of Inchicore, in the county of Dublin, Engineer, has given the like notice in respect of the invention of "Improvements in rails, and the permanent way of railways, parts of such improvements being applicable to common roads."

As set forth in his petition, recorded in the said office on the 13th day of June, 1859.

1438. And Edward Humphrys, of Deptford, in the county of Kent, has given the like notice in respect of the invention of "Improvements in marine steam engines."

As set forth in his petition, recorded in the said office on the 15th day of June, 1859.

1445. And William Birkmyre, of Port Glasgow, in the county of Renfrew, North Britain, Manufacturer, has given the like notice in respect of the invention of "Improvements in drying, treating, and preparing yarns or thread."

1450. And Thomas Wharton Jones, of 35, George Street, Hanover Square, in the county of Middlesex, Esquire, has given the like notice in respect of the invention of "Stereoscopic glasses for single pictures."

1456. And Thomas Cattell, of 30, Euston Square, in the county of Middlesex, Doctor of Medicine, has given the like notice in respect of the invention of "Improvements in the manufacture of varnish and lacker."

As set forth in their respective petitions, all recorded in the said office on the 16th day of June, 1859.

1474. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "An improved method of supplying furnaces with hot air."—A communication from abroad by Messrs. Addison Calvin Fletcher, of Cincinnati, Ohio, and George Ambrose Redman, of New York City, Gentleman, United States of America.

As set forth in his petition, recorded in the said office on the 18th day of June, 1859.

1483. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved apparatus for blowing off water from steam boilers."—A communication from abroad by James Havey Washington, of Baltimore, in the United States of America.

As set forth in his petition, recorded in the said office on the 20th day of June, 1859.

1491. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement in tailors' and other shears."—A munication from abroad by James H. Roome, of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 21st day of June, 1859.

1551. And John Joseph Griffin, of 119 and 120, Bunhill Row, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in gas furnaces, suitable for fusing refractory metals."

As set forth in his petition, recorded in the said office on the 29th day of June, 1859.

1577. And Mark Bogg, of Duggleby, near Malton, in the county of York, Joiner, has given the like notice in respect of the invention of "Improvements in washing machines."

As set forth in his petition, recorded in the said office on the 1st day of July, 1859.

1773. And Perceval Moses Parsons, of Arthur Street West, London Bridge, has given the like notice in respect of the invention of "Improvements in switches and crossings of railways."

As set forth in his petition, recorded in the said office on the 30th day of July, 1859.

1847. And WALTER MACLELLAN, of Glasgow, in the county of Lanark, North Britain, Iron Merchant, has given the like notice in respect of the invention of "Improvements in parts of the permanent way of railways."—A communication from abroad by John Gregory, of Lisbon, in the kingdom of Portugal, Engineer.

As set forth in his petition, recorded in the said office on the 9th day of August, 1859.

1928. And WILLIAM HOLLINS, of Glossop, in the county of Derby, Overlooker, and FREDERICK HYDE, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in power looms for weaving, part of which improvements is also applicable to other machines driven by power."

As set forth in their petition, recorded in the said office on the 23rd day of August, 1859.

1978. And JAMES COWGILL and JOHN STOCKS, both of Bradford, in the county of York, Mechanics, have given the like notice in respect of the invention of "Improvement in 'caps' for spinning fibrous substances, and in the means or method of manufacturing the same."

1981. And ROBERT BEVERLEY, of Leeds, in the county of York, Gas Meter Maker, has given the like notice in respect of the invention of "Improvements in wet gas meters."

As set forth in their respective petitions, both recorded in the said office on the 31st day of August, 1859.

2092. And JOHN MARRITT, of Sutton, in the county of York, has given the like notice in respect of the invention of "An improved double-action rotating harrow."

As set forth in his petition, recorded in the said office on the 14th day of September, 1859.

2106. And JAMES BOTTOMLEY, of North Bierley, near Bradford, in the county of York, Manufacturer, and ALEXANDER HENNAH MARTIN, of the same place, Mechanic, have given the like notice in respect of the invention of "Improvements in means or apparatus employed in weaving."

As set forth in their petition, recorded in the said office on the 16th day of September, 1859.

2129. And JAMES WRIGHT, of 42, Bridge Street, Blackfriars, city of London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction of carriages, coaches, omnibuses, and other such like conveyances."—A communication from abroad by Rene Sauvage De Saint Marc, of Lyons, in the empire of France.

As set forth in his petition, recorded in the said office on the 19th day of September, 1859.

2140. And WILLIAM MCILWRAITH, of Glasgow, in the county of Lanark, North Britain, Weaving Foreman, has given the like notice in respect of the invention of "Improvements in weaving."

As set forth in his petition, recorded in the said office on the 20th day of September, 1859.

2193. And THOMAS SUTTON, of St. Brelade, in the island of Jersey, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of apparatus for taking photographic pictures, consisting of and entitled 'An improved panoramic lens for taking photographic pictures.'"

As set forth in his petition, recorded in the said office on the 28th day of September, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 7th October*, 1859, *inclusive.*)

8th October.

2380. WILLIAM RENNIE, the younger, of Lagan Foundry, Belfast, in the kingdom of Ireland, Engineer, for an invention of "Improvements in the condensing apparatus of steam-engines."—Dated 10th October, 1856.

8th October.

2364. THOMAS KING, of Spitalfields, in the county of Middlesex, Surveyor, for an invention of "An improved continuous compressing machine."—Dated 9th October, 1856.

2371. LEWIS JACOB JORDAN, of Berner Street, in the county of Middlesex, Gentleman, for an invention of "A medicine for the cure of venereal affections."—Dated 9th October, 1856.

2414. GEORGE COLLIER, of Halifax, in the county of York, Engineer, for an invention of "Improvements in the manufacture of piled fabrics."—Dated 16th October, 1856.

2446. JACQUES FELIX DESHAYES, of Paris, in the empire of France, Dyer, for an invention of "Improvements in machinery for dyeing silk, cotton, or wool, in hanks or skeins, or woven fabrics."—Dated 18th October, 1856.

2456. JOSEPH LACASSAGNE, Chemist, and RODOLPHE THIERS, Manufacturer, both of Lyons, in the empire of France, for an invention of "An improved electric lamp."—Dated 20th October, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 8th October, 1859, inclusive.*)

6th October.

282. JOHN BLAIR, of Ducie Bridge Mill, Manchester, in the county of Lancaster, for an invention of "Certain improvements in the manufacture of waddings, and in the machinery for making the same."—Dated 7th October, 1852.

292. SAMUEL RAINBIRD, of Norwich, in the county of Norfolk, Builder, for an invention of "Improvements in grappling and raising sunken vessels and other submerged bodies, and in apparatus for that purpose."—Dated 7th October, 1852.

413. CHARLES TIOT JUDKINS, of Britannia Works, Manchester, in the county of Lancaster, for an invention of "Improvements in machinery or apparatus for sewing or stitching."—Dated 16th October, 1852.

448. JAMES OTAMS, of 2, Horton Villas, Camden Road, Holloway, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of manure."—Dated 19th October, 1852.

7th October.

324. THOMAS RESTELL, of the Strand, in the city of Westminster, Watchmaker, for an invention of "Certain improvements in chronometers, watches, and clocks, part of which improvements is applicable to roasting-jacks." — Dated 9th October, 1852.

8th October.

545. CHARLES BENJAMIN NORMAND, of Havre, in the Republic of France, Ship Builder, for an invention of "Improvements in machinery for sawing wood."—Dated 27th October, 1852.

Erratum in Journal of 7th October.

No. 2126. For "Improvements" read "Certain improvements."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.

UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 20th September, 1859, and each bearing that date.

No. 25,476. LEMUEL ALLEN, of Pekin, Ill., for an "Improved planetarium."

"What I claim as my invention in the construction of planteriums is the representation of the planets and their orbits, suspended on a diametric rod, and capable of rotating on said rod within a broad belt, which represents the zodiac, substantially as set forth. I also claim the arrangement of devices, by which the earth may be adjusted to represent its relative position to the sun and to the plane of its orbit, at any point thereof, in the manner and for the purpose set forth."

No. 25,477. ASTLEY C. ANCONA, of Reading, Pa., for an "Improvement in slide valves for steam engines."

"I claim the corrugated valve seat, in combination with the cavities *c*, *c*, *c*, *c*, in the face of the valve, substantially the same as and for the purposes herein set forth."

No. 25,478. P. J. AUKNEY and DANIEL MCGREEVY, of New Lexington, O., for an "Improvement in grain separators."

"We claim, first, the oscillating hopper or trough *b*, as constructed, in combination with the revolving screen *c*, as constructed, operating jointly as described, for the purpose set forth. Second, we claim the combination of the screen *c* and trough and hopper *b* with the adjustable hopper or spout *h*, and the spout *j* with gauge j^1, cut-off *k*, and valve k^1, the whole operating as described, and for the purpose set forth."

No. 25,479. WM. R. AXE, of Beloit, Wis., for an "Improvement in mortising machines."

"I claim the gage plate R^1, and slides *x*, *x*, in combination with the reciprocating table W, and adjustable table W^1, arranged in the manner and for the purposes represented and specified."

No. 25,480. HORACE BERTOLET, of Reading, Pa., for an "Improvement in steam engines."

"I claim the peculiar arrangement of the bar I, I, in the slotted valve stem, and the connection of the arms R, R, with the cylinder cocks C, C."

No. 25,481. JONATHAN BIGELOW, of Brighton, Mass., for a "Changeable stencil."

"I claim the character plate formed at its ends, as described, for the purpose specified, whether the same be swaged at one edge or not. Also, the stencil formed by the combination of said character plates, and a frame or frames or clamps, as described."

No. 25,482. PETER S. BISHOP, of Springfield, R.I., for an "Improvement in manufacture of thimbles."

"I claim the new article of manufacture herein described, namely, a thimble made from plated or overlaid metal, either in the common form with fluted sides, or with sides in the form of a regular geometrical figure, the whole article being substantially such as specified."

No. 25,483. Alpheus Bissell, of Berlin, Wis., for an "Improved washing machine."

"I claim the arrangement of the false bottom C, cords (*a*, *a*), pulleys *x*, *x*, platform D, and cam chuck E, with the frame F, provided with corrugated rubbers H, H, with rollers *m*, *m*, and with levers I, I, said frame being operated by means of cranks J, J, the whole bing combined and used substantially as and for the purpose specified."

No. 25,484. J. L. Booth, of Cuyahoga Falls, O., for an "Improvement in grain separators."

"I claim the inclined zig-zag screens and boxes B, C, and troughs E, having a shake motion given them, and used in connection with the revolving fan G, and spout H, the parts being arranged relatively with each other, to operate as and for the purpose set forth."

No. 25,485. J. H. Boyd, of Baltimore, Md., for an "Improvement in spring saddle trees."

"I claim the employment of the double head or gullet plates C and D, when the front head or gullet D, is connected to the body of the tree by means of springs E, E, in such manner, that when the straining web is attached to said head, and to the back of the tree, a spring seat will be formed substantially as set forth."

No. 25,486. Saml. W. Brown, of Lowell, Mass., for an "Improved steam-pressure indicator or alarm."

"I claim the arrangement and combination of cylinder A, rod F and C, tube G, and valve H, with each other, in the manner described, for indicating or giving the alarm with steam from the same or contiguous chamber, essentially in the manner and for the purposes fully set forth.

No. 25,487. Morgan Chittenden, of Danbury, Conn., for an "Improved sash fastener."

"I claim the combination of a T-shaped wedge C, with a bolt case B, having an opening corresponding thereto, whereby the two sashes are uniformly and closely secured together, substantially in the manner and for the purpose described."

No. 25,488. M. H. Clark, of Danville, Va., for an "Improvement in hydraulic presses."

"I claim, 1st, the arrangement of the water reservoir D^1, force pump or pumps E, main supply pipe F, branches G, G, stop cocks H, and a series of hydraulic presses A, B, C, for united operation, substantially as and for the purposes set forth. 2nd, arranging a leather packing ring on a disc, which is divided radially into a series of parts, and fitted loosely on a conical extension of the piston, and held in contact with said extension by means of an undivided disc, which is suspended loosely so as to have vertical play on a screw or headed pin of the piston, substantially as and for the purposes set forth."

No. 25,489. Richardson P. Clark, of Johnstown, Pa., for an "Improved apple-parer."

"I claim the combination and arrangement of the paring knife A, lever *g*, N, M, spring R, cord L, clutch drum K, and spring V, with shaft C, band *g*, and pulleys H and J, and wheels D and E, and apple fork B, substantially as and for the purposes herein described."

No. 25,490. V. P. Corbett, of Washington, D. C., for an "Improvement in stoppers for preserve cans."

"I claim the arrangement of the plate *m*, screw *p*, conical nut *b*, and disc A, composed of two or more sections (*a*), when the same are used in connection with an elastic band or rim *h*, when the whole is adapted to be used as a stopper for preserve cans, substantially as specified."

No. 25,491. Geo. B. Cornish, of New York, N.Y., for an "Improved apparatus for reefing sails."

"I claim constructing the slip bands G, G, in one piece with four flanges *a*, *a*, a^1, a^1, the spaces between *a*, *a*, and a^1, a^1, serving as slip bands and the central space between flanges a^1, a^1, serving as a band on which the reef-pennant J is wound, said flanges serving to prevent any lateral movement of the yard, and also to prevent the reef-pennant from coming into contact with, and being injured by the quarter bands H, all as herein shown and described."

No. 25,492. Riley Doty, of Cardington, O., for an "Improved device for steadying logs in saw-mills."

"I claim the employment of the adjustable frames F, F^1, provided with journal bearings *n*, *n*, and with rollers *a*, *a*, the same being operated in one direction by means of the head and tail blocks, and in the opposite direction by means of a cord and a weight, one of said frames being stationed as described by a spring H, provided with a shoulder *c*, and an inclined plane *x*, the whole being arranged, substantially as and for the purpose specified."

No. 25,493. John L. Drake, of Cincinnati, O., for an "Improvement in lamps."

"I claim the employment or use of the disk E, applied to the wick tube B, and used in connection with the cap C, arranged relatively with it, for the purpose set forth."

No. 25,494. Eugene Duchamp, of St. Martinsville, La., for an "Improvement in derricks."

"What I claim, is, the combination of the toggle and right and left screw boom H, when the latter has its fulcrum movable, as above shown, with the pulleys J, J, L, N, and P, when the same are arranged essentially in the manner and for the purposes herein above represented and described."

No. 25,495. Oliver T. Eddy, of Philadelphia, Pa., for an "Improvement in coffee pots."

"I claim the annular cone-shaped deflecting plate E, resting on the bottom of the pot, and arranged in respect to the tube F, and perforated plate G, substantially as set forth and for the purpose specified."

No. 25,496. Moses G. Farmer, of Salem, Mass., for an "Improved electro-magnetic steam boile[r] gauge."

"I claim the combination of an indicator, an electric circuit or circuits, one or more circuit breakers, or rheortates with a float, in any manner substantially as herein described."

No. 25,497. L. R. Faught, of Atlanta, Geo., for an "Improvement in horse-power machines."

"I claim the arrangement and combination of a stationary geared rim A, movable rim E, supporting bar D, fitted in the pinions C, C, the shafts G, G, provided with pinions F, F, and wheels H, H, and the shaft F^1, substantially as and for the purpose set forth."

No. 25,498. Geo. Finn, of Oswego, N.Y., for an "Improved method of operating crozing knives."

"I claim arranging the cam *c*, that works the cutter on the bevel wheel O, so that it will not occupy more space on the arm that carries them, than that occupied by said bevel wheel, for the purpose of simplifying the mechanism, and economizing space on said arm, which is necessarily limited in length, as herein represented and shown."

No. 25,499. Eli Wheeler, of Elmira, N. Y., for an "Improvement in railroad car seats."

"I claim, 1st, the arrangement of box-formed supports *c*, *c*, cushioned seat bottoms C^2, C^2, and cushioned seat backs D, D, of a pair of car seats, in the manner herein specified, whereby, when the bottoms of the seats are turned over to fill up the space between the seats, the bed clothing contained in the box will be exposed so as to be readily removed, and then, when the backs are turned down to fill the place occupied by the bottoms, the said boxes will be closed up, and a continuous bed formed from one back edge to the other of the seat, as and for the purpose set forth. 2nd, the short open stationary partitions B, B, in combination with sliding panels *b*, *b*, which, when elevated, serve as head and foot boards, and allow ventilation under and above the berth during night time, and when lowered during day time, afford more room to the upper portion of the body of passengers, as they pass through the aisle of the car, substantially as set forth. 3rd, the short sliding closed blinds C, C, arranged to operate as described, and serve as foot and head boards, and allowing ventilation above and below the upper berth, in combination with the upper berths E, and partitions *c*, *c*, substantially as set forth."

No. 25,500. John Fretz, of Angel, Cal., for an "Improved furnace and apparatus for treating pyritous ores."

"I claim, first, the hollow stationary cylinder F, its revolving worm and its openings, for the admission of the pyrites and the introduction of air and discharge of the fumes of sulphur, in combination with the rotating cylinder

C, and its internal ribs, the said stationary and rotating cylinders communicating with each other through a pipe *k*, and the whole being arranged in respect to the furnace A, substantially as and for the purpose set forth. Secondly, the system of vertical boxes or chambers J, K, and L, communicating with each other, with the steam pipes k^1, the rotating cylinders C, and the exit pipe M, and arranged substantially as set forth and for the purpose specified."

No. 25,501. Richd. Garsed and Clayton Denn, of Philadelphia, for an "Improvement in machinery for warping yarn."

"We claim, 1st, the form of the drop wires, as in Fig. 14, arranged in the manner and for the purpose specified. 2nd, the cylinder 20, for the purpose of marking the cuts, operated substantially as above described. 3rd, the employment of a register, constructed substantially as above specified, for the purpose of registering the number of cuts, while the machine is in motion. 4th, the employment of the bar A, for the purpose of taking the leas constructed with fingers, either on one or both sides, as above described. 5th, the combination of the vibrating tube V, the stationary hook 52, the movable hook 55, and the pin 57, for the purpose of forming the yarn into links, constructed and operated in the manner substantially as above described."

No. 25,502. Saml. Gissinger, of Alleghany, Pa., for an "Improved churn."

"I claim the arrangement in the movable frame (*e*) of the oscillating churns (*i*) furnished with dashers (*m*) and wings (*h*), in combination with the revolving shaft (*f*) armed with wings (*g*), the whole being arranged and combined as herein described and represented, and for the purpose set forth."

No. 25,503. Eugene Grenet, jr., of Paris, France, for an "Improved galvanic battery."

"I claim, 1, the method of agitating the exciting liquid of a galvanic battery by forcing a current of air through it, in the manner and for the purposes, substantially as set forth. 2nd, arranging and constructing the zinc and charcoal elements in combination with the exciting fluid, substantially in the manner herein described, whereby they may be operated the one by the other, substantially as set forth. 3rd, forming the charcoal elements by pressing into or on to the surface of plates of lead, when yet in a semi-liquid state, small pieces of charcoal, in the manner substantially as described."

No. 25,504. Collins W. Griffith, of Dayton, O., for an "Improved gauge and box for casting journals in soft metals."

"In combination with a hollow box, I claim a loose removable gauge or centering plate, fitted and fastened to or held against the box so as to hold the shaft in its proper position in the box and at the same time retain or prevent the melted metal that is poured into the hollow box to form a box around the shaft from running out."

No. 25,505. Valentine Hall, of New York, N. Y., for an "Improvement in apparatus for cooling liquids."

"I claim the employment or use of one or more receivers A, B, placed within a tank F, and connected with the barrel or cask H, by means of a syphon I and with a pump E within or at the outer side of the tank, for the purpose set forth. I further claim combining a pump E with one or more receivers A, B, connected together and made to communicate with each other by syphons C, D, when said parts are submerged within a tank F and made to communicate with a cask or barrel H by means of a syphon I extending over the top of the tank, substantially as and for the purpose set forth."

No. 25,506. Halvor Halvorson, of Cambridge, Mass., for an "Improvement in lamps."

"I claim, 1st, the employment or use of the valve C in connection with the wick tubes B, B, for the purpose of regulating the supply of air to the interior of or between two planes of the wicks *g*, *g*. 2d, the arrangement of the shafts *e*, *f*, and their wheels e^1 so that the wheels e^1 on one shaft may gear into those on the other for the purpose of raising and lowering the wicks simultaneously by the turning of one shaft *f*."

No. 25,507. Riley Haskell, of Painesville, O., for "Trolling bait for catching fish."

"1st, I claim constructing the body of an artificial representation of a natural fish in two detached parts, to be used in combination, one portion thereof revolving and the other remaining fixed or stationary, both portions being on one shaft, as herein particularly described, and for the purpose set forth. 2nd, I claim, in connection with my first claim, filling the upper part of said fixed portion with a light substance, and weighting the lower part thereof for the purpose of keeping the said fixed portion vertical in the water, as described."

No. 25,508. Rochus Heinisch, of Newark, N. J., for an "Improvement in tailors' shears."

"I claim constructing the lower bow with its upper portion widened, and with the projection *p* thereon, so as to form a bearing for the forefinger within the bow, substantially as and for the purpose set forth."

No. 25,509. W. M. Hurlbert, of Northfield, Vt., for an "Improved variable exhaust for steam engines."

"I claim, applying the slides to operate in elbows or inverted L-shaped nozles, arranged substantially as herein described."

No. 25,510. Edwd. T. Jenkins and Frank B. Polley, of Williamsburgh, N. Y., for an "Improved steam trap."

"We claim the round pipe B, in combinatiou with the valve seat J, valve *a*, ring *c*, opening K, and float D, when arranged and operated in the manner described and for the purpose specified."

No. 25,511. Christian Kieffer, of Lancaster, Pa., for an "Improvement in boilers."

"I claim, the construction of the extension and perforated steam pipe C, with the extension hot-air flue B, the pan H, with pipes *i*, *i*, and perforated pipe K, arranged and combined substantially as herein described and for the purposes set forth."

No. 25,512. Josiah Kirby, of Cincinnati, O., for an "Improved bung-hole borer and reamer."

"I claim, the conical-shaped stock when made with a throat cut through from the edge of the bit on one side to the opposite side of the stock, so that the shavings are made to pass through the stock and out on the opposite side substantially as described. I also claim the combination of the auger bit C with reamer, when made in the manner and for the purpose substantially described."

No. 25,513. Levi L. Lancaster, of Rocky Mount, N. C., for an "Improvement in seed planters."

"I claim the frame *e*, wheels *c*, *c*, hopper *m*, cylinder *b*, pockets or depressions *r*, conveying tube D, furrow opener F, *u*, coulter Z, leveler H, H, and bottom I, I, the whole being arranged for operation conjointly as and for the purposes herein described."

No. 25,514. Lewis W. Leeds and Calvert Vaux, of New York, N.Y., for an "Improved thermometric regulator for heating apparatus."

"What we claim, is, so applying the vessel which we have termed the secondary heater containing the fluid to act upon the piston or its equivalent, in combination with the primary heater, and so applying the piston or its equivalent in combination with said secondary heater and with the regulating valve as herein described, that the secondary heater is exposed at the same time to the heating influence of the primary heater, and the cooling influence of the incoming cold air, and the fluid contained therein is by its expansion and contraction made to control the admission of the steam or other heating agent, and cause the supply of such agent to the heater to vary inversely with variations in the atmospheric temperature as herein set forth."

No. 25,515. Julius S. Lloyd, of Philadelphia, Pa., for an "Improved approach opening gate."

"I claim operating the angular bar D, by means of the carriage I, with its pulleys J and J^1, and guard L, in combination with the projecting arm f^1 of the rod F, and the cranked and weighted rods N and N^1 and their respective cords or chains, the whole being arranged for joint action as and for the purpose herein set forth."

No. 25,516. Geo. Lutz, of Logan, O., for an "Improved water indicator for steam boilers."

"I claim, first, operating auricular and visual alarms either severally or jointly at will by mechanism such as is herein described for the purpose set forth. Second, the combined index and tripping levers *e*, e^1, arranged substantially in the manner and for the purpose set forth. Third, the combina-

tion of the tripping levers c, c^1, balance lever K, and bifurcated rocking lever J, substantially as and for the purpose described. Fourth, the combination of the catch d, and dogs j, j^1, when arranged and operated substantially as and for the purpose set forth. Fifth, the combination of the bent lever D, thumb-screw d^1, and slotted bracket L, substantially as and for the purpose described."

No. 25,517. Augustus Miller, of Grafton, O., for an "Improved method of making soap."

"What I claim as my improvement, is a soap manufactured from the herein-named ingredients and chemicals, when the same are compounded substantially in the manner and for the purpose specified."

No. 25,518. G. J. Mix, of Wallingford, Conn., for an "Improved manufacture of iron spoons."

"I claim, 1st, the method substantially as herein described of making the handles of iron spoons. 2nd, forming a tongue D^1 upon the bowl blank, and a corresponding recess or inlet D upon the handles, or vice versa, substantially as and for the purposes herein set forth."

No. 25,519. Geo. G. Noyes, of Worcester, Mass.' for an "Improved carpet fastener."

"I claim the bar A, provided with the hooks B, knife edge a, and spurs d, substantially as shown, so that it may be readily secured to and detached from the base board and floor, for the purpose set forth."

No. 25,520. Wm. A. Nugent, of Susquehannah Depôt, Pa., for an "Improvement in rail road chairs."

"I claim the shell or body a, with the cam jaws b, b, and the chair, substantially as arranged, and for the purpose above specified."

No. 25,521. John K. O'Neil, of Kingston, N. Y., for an "Improved horizontal water wheel."

"I claim the arrangement of the guide partitions b, b, g, g, cylinders B, E, wheels C, D, and wheel or buckets f, f, in the manner and for the purposes substantially as herein specified."

No. 25,522. Thos. S. Page, of Milan, O., for an "Improvement in composition for tanning."

"What I claim is a liquor composed of terra japonica, sulphate of alumina, and potassa, muriate of soda, nitrate of potash, and sulphate of soda, when combined in the proportions and for the purpose herein described."

No. 25,523. Collin G. Pollock, of Cincinnati, O., for an "Improved boring and mortising machine."

"I claim the arrangement and combination of the bar o on the arbor F, projection p on the upright A, lever K, connected with the arbor F by the knuckle joint M, and the bevel gear G, H, for joint operation, substantially as set forth."

No. 25,524. Chas. Potter, jr., and C. B. Cottrell, of Westerly, R. I., for an "Improvement in feeding paper to and from printing presses."

"We claim the securing of the registering points I firmly to a fixed portion of the machine, and releasing the paper therefrom at the proper time by elevating the adjacent surface J, J, as herein set forth. We also claim depositing each sheet face upwards on the pile, by carrying it between vibrating series of tapes R, S, operated substantially in the manner herein set forth. We likewise also claim the arrangement of the cylinders n, n^1, p, p^1, and the series of tapes R, S, or their respective equivalents, in the vibrating frame P, which vibrates on the shaft N, as a center, and receives its proper vibratory motion from the hook w, or its equivalent, whereby the frame P may be readily unhooked, and swung out of the way, to allow access to the bed of the press, without deranging or disturbing any of the mechanism."

No. 25,525. Wm. H. Racey, of New York, N. Y., for an "Improvement in burners for vapor lamps."

"What I claim is the burner F and curved rods G, G, one or more in combination with one or more deflecting caps D, E, and draught tube C, arranged for joint operation substantially as and for the purpose set forth."

No. 25,526. Peter Reynard, of New York, and Victor Varin, of Brooklyn, N. Y., for an "Improved insect powder blower."

"We claim the divisions c, c, in the powder chamber to ensure the powder being in a position to be acted on by the air blown through the perforated diaphragm d, as and for the purposes set forth. And in combination with said powder chamber, constructed as aforesaid, we claim the india rubber perforated ball, fitting and acting as specified, to give the blast of air."

No. 25,527. Joshua Rollman, of Sinking Springs, Pa., for an "Improvement in threshing machines."

"I claim the application to a threshing machine of one or more independent fan blowers, which are attached outside of the machine, and in such positions as to prevent any dust arising from the operation of threshing from reaching the attendant on the machine when arranged and operated substantially in the manner herein described."

No. 25,528. Gelston Sanford, of Poughkeepsie, N. Y., for an "Improvement in horse-power machines."

"I claim, 1st, the combination of the internal toothed wheels C and F, and their connected pinions, with the hollow standard B, when arranged in the manner and for the purpose set forth. 2nd, the combination of the hollow standard B with the shaft K, and its connected gearing I and J, in the manner and for the purpose described. 3rd, the combination of the adjustable bearing or frame M with the hollow standard B and shaft K, as and for the purpose set forth."

No. 25,529. Nathan Sargent, of Charlestown, Mass., for "Improved tops for tables."

"I claim as an improved article of manufacture a panoramic table or table top, the same being constructed and operated in manner and for the purpose specified. I also claim the peculiar mechanism herein described, whereby the canvas or panoramic cloth is maintained with proper tension upon each of the rollers, however such cloth may vary in thickness or in number of folds upon such rollers."

No. 25,530. Caspar Schultze and J. Frederick Schroeder, of Covington, Ky., for an "Improvement in straw cutters."

"We claim a cutting box constructed as before shown and specified, that is, with adjustable compound knife-wheel H, in combination with feeding chute C, when these several parts are constructed and arranged for operation conjointly as and for the purposes described."

No. 25,531. Wm. W. Shipman, of New Haven, Conn., for an "Improvement in machines for making sewing-machine needles."

"I claim the feeding plier, formed by the lever F and block D, in combination with the punching die P^2, and die P^3, and 2^1, 3^1, Fig. 8, the cutter N, and clamp formed by J, J, and I, I, Fig. 5, the whole in combination as set forth in Figs. 1 and 2, and operated in the manner and for the purposes herein-before specified."

No. 25,532. Geo. B. Simpson, of Washington, D.C., for an "Improved electrical heating apparatus."

"I claim the insulation of the metallic coil or helical electrode, which I call an electro heater, and the successful generation of heat, by passing currents of electricity over a coil or coils of platina, or other metallic wire, resting on and supported by a non-conducting electrical base, or encased in metallic tubes or open vessels insulated with any of the well-known substances non-conducting of electricity, all of which is in conformity with the specifications of my caveat, filed in the Patent Office on the 16th day of December, 1857, as herein-before described."

No. 25,533. John Joseph Charles Smith, of Covington, Ky., for a "Mode of constructing matrices, &c."

"I claim the discovery of rendering a composition or alloy of copper and tin pliable, and in such a state as to admit of an easy impression of any figure or design on or in metal, whether engraved or produced by means of electrotyping, as a copy of any figure, design, or object, thus yielding a perfect matrix or mould; and this process I further claim as my invention in connection with the manufacturing of types of the 'alloy' of copper and tin, and as already aforesaid described, and which will and shall produce the intended effect."

No. 25,534. Chas. Stearns, of Lowell, Mass., for an "Improvement in making lightning conductors."

"I claim the twisting rollers, constructed as described, in combination with the corrugating rollers, for producing the corrugated twisted copper rod."

No. 25,535. Theodore J. Steffe, of Lancaster, Pa., for an "Improvement in horse-rakes."

"I claim the arrangement and combination of the teeth-heads E, key N, spiral spring attachment F, lifters B, B, lever G, H, cleaners *c*, C, when these several parts have made their centre of motion on the axle of the machine. Also, in combination with the above the foot brace K, L, hinged at I, I, slide M, and slot O, substantially as and for the purpose herein specified."

No. 23,536. Geo. Strause, of Boonsboro', Md., for an "Improvement in hominy mills."

"What I claim, is, giving to the shaft D substantially the shape represented in the accompanying drawings when the said shaft is armed with toothed segments, and is operated within a tube, which is also armed with counteracting segments, substantially in the manner herein set forth."

No. 25,537. David H. Van Duzer, of Sugar Loaf, N. Y., for an "Improvement in bridges."

"I claim, in combination with the blocks, E, F, G, H, I, rods B, B^1, blocks C, C^1, and bolts D, D^1, arranged as shown, the arrangement of the plates L, all substantially as and for the purposes herein shown and described."

No. 25,538. Saml. Walker, of Roxbury, Mass., for an "Improvement in the take up for trimming looms."

"I claim giving to the take up roll of a trimming loom, a reciprocating motion longitudinally on its axis, for the purpose specified."

No. 25,540. Chas. Fontayne, of Cincinnati, O., for "A photographic printing machine."

"I claim, first, the above-described machine for printing or multiplying photographic pictures. Second, the above described art of multiplying positive photographic pictures, or expressions, from the same negative, upon the same sheet of sensitive paper, or other material. Third, causing the sensitive material used for the reception of photographic impressions latent, or otherwise, made by the agency of solar or other light passing through a negative to traverse the aperture, or negative employed. Fourth, the traversing bed, whether cylindrical or plane, confined within a dark chamber, whose surface may be moved by ratchets, screws, cranks, or their equivalents, for the purpose of carrying the sensitive material when the same is used in connection with a negative, from which it receives positive impressions, substantially as described. Fifth, the employment of continuous sliding or revolving disks (with springs and spring stops, or their equivalents, to give them a uniform motion, and overcome the momentum or rebound) for admitting and shutting off light, uniformly to and from all parts of the surface to be acted upon, in printing positive photographic pictures from a negative, substantially as described. Sixth, the application of a lens, or lenses, for the purpose of condensing light, when used in combination with negative 28, the sensitive material and slide, or cut-off, for admitting and shutting off light, for the purpose of photographic printing. Seventh, the combination of condensing lens 33, negative 34, daguerreotype tube 75, with its lenses 76, the sensitive material and slide, or cut-off for photographic printing, substantially as described. Eighth, the combination of the sensitive material, negative 28, (as distinguished from negative 34,) and slide or cut-off, for the purpose of photographic printing. Ninth, the method of raising the glass negative, or other matrix, 28, from the sensitive material, to permit the motion of the latter, and the method of lowering it again, substantially as described. Tenth, the method of supporting and adjusting negative 28, substantially as described. Eleventh, the use of the glass negative (when negative 28 is used), or the use of a piece of plain glass in the place of it, (when negative 34 is used, or the use of a skeleton frame, for the purpose of pressing the sensitive material smoothly and evenly on roller 5, or the traversing bed, while the photographic impression is being made. Twelfth, the alternate admission and exclusion of light passing through a negative, to act upon a traversing sensitive material, confined in a portable dark chamber, substantially as described. Thirteenth, the rod 8, working through hollow slotted shaft 6, and affixed to roller 5, by plate 9, for the purpose described. Fourteenth, the combination of the lever 12, with its spring catch 13, with the ratchet wheel 14, nose 82 of shield 14, and slotted stop 11, substantially as and for the purposes described."

No. 25,541. Henry Whittington, of Philadelphia, Pa., for an "Improvement in cut-off gear for steam engines."

"I claim the inclined spiral edges *x*, *x*, on the revolving and sliding sleeve B, when the latter is applied to operate the cut-off valve G, the descent of which is caused by the pressure of steam above the valve, and when the inclined edges serve to retard the descent of the valve, as herein set rorth."

No. 25,542. Asbury Wilkinson, of Madison, Ind., for an "Improved washing machine."

"I claim the combination of circular boards B and C, suspended from a frame above by springs *b*, *b*, *b*, &c., with a rotary corrugated roller, Fig. 4, working between them, all constructed and operated substantially as set forth in the foregoing specification."

No. 25,543. Jeptha Avery Wilkinson, of Brooklyn, N. Y., for an "Improved registering apparatus."

"I claim a series of counting disks, standing at right angles or nearly so to each other, and each formed with a thread or worm around its periphery, taking teeth on the next counting disk, in the manner and for the purposes specified. I also claim the arrangement of the counting disk q^9, q^{10}, in the manner specified, whereby they can be disconnected and set to commence counting when required, as and for the purpose described and shown."

No. 25,544. John F. Cook, of Baltimore, Md., assignor to himself and Geo. F. Page, of same place, for an "Improved try-cock for steam boilers."

"I claim combining with the barrel of a try-cock a two-armed lever, one provided with springs or weight, and the other with a rubber or other equivalent disk, so that the weighted arm shall hold the valved or disk arm against the bore of the barrel of the cock, substantially as herein described and represented."

No. 25,545. Henry W. Gray, of Cleveland, O., assignor to himself and W. H. Alvord, of Homer, N. Y., for an "Improvement in rail-road chairs."

"I claim the forming the railroad chair of two sections, having the outer surfaces F convex, as described, in combination with the gripe C, and beam D, the several parts being arranged in the manner and for the purpose set forth."

No. 25,546. Horatio Francis Hicks, of Grand View, Ind., assignor to Hicks Brothers, of same place, for an "Improvement in presses."

"I claim the described combination of stepped bearings G and I with rollers K^1, adapted to operate in connection therewith without endwise pressure or tendency to displacement, in the manner and for the purpose set forth."

No. 25,547. Geo. W. McCord, of Centralia, Ill., assignor to himself, J. F. Lobdell, of Centralia, Ill., and P. V. A. Davis, of Rush, N. Y., for an "Improved deep-sea sounding apparatus."

"I claim the arrangement of the cylinder (*a*), piston (*p*), graduated scale (*f*), cap (*i*), and vernier or register (*k*), constructed and operating substantially as described, for the registration of marine soundings upon the principle of hydrostatic pressure."

No. 25,548. G. H. Sanborn, of Boston, Mass., and John E. Coffin, of Portland, Me., assignors to G. H. Sandborn aforesaid, for a "Machine for shaping and finishing the backs of books."

"We claim, 1st, the employment for shaping or finishing the backs of books of a divided roll or pair of segments C^1, C^1, operating across the backs from the centre to both sides thereof, substantially as herein described. 2nd, the combination of the cam T, slide R, toggle P, P, spring Q, link *y* lever O, link *u*, and toggles F, F, with the book-holder, for the purpose of raising the holder and causing it to close upon the book before each operation of the divided roll or pair of segments, substantially as herein described. 3rd, attaching the segment levers G, G^1, or their equivatents, to levers H, H, operated substantially as described, by cams N, N, on the conatantly revolving main shaft, for the purpose of throwing the segments out of the way of the holder at the proper stage of the operation of the machine to permit the removal and introduction of the books."

No. 25,549. Thos. Shaw, of Philadelphia, Pa., assignor to himself and J. C. Bailey, of same place, for an "Improvement in stoves."

"I claim, firstly, the adjustable legs *a*, when combined with the casing A and its gauze cylinder, and arranged as set forth, so as to serve the double purpose of tilting the stove more or less on one side, and regulating the admission of air into the casing. Secondly, operating the valve D, for regulating the flow of gas into the casing, by means of the object to be heated by the flame, in conjunction with the devices herein set forth, or their equivalents."

No. 25,550. A. P. Underhill, of New York, N.Y., assignor to C. R. Underhill, of New Castle, N. Y., for an "Improvement in converting reciprocating into rotary motion."

"I claim the arrangement and combination of the frame I, guards S, S^{1}, S^{11}, S^{111}, and ratchet wheels J, J^{1}, J^{11}, J^{111}, substantially as herein shown and described, so that the rotation of the shaft H may be reversed, as set forth."

No. 25,551. Wm. F. Warburton and Wm. B. Atkin, of Philadelphia, Pa., assignors to Wm. F. Warburton aforesaid, for an "Improvement in machinery for perforating hat bodies."

"Claim.—Firstly, the system of pointed pins *m*, hung independently of each other to the cross head J, furnished each with a separate spring, and arranged and operated substantially as set forth, in combination with the hat block, attached to the face plate F on the spindle E, for the purpose specified. Secondly, the ratchet wheel G of the same form or thereabouts as that presented by a transverse section of the hat to be perforated, in combination with the face plate F and its hat block, the said wheel being operated by the pawl *f*, and the appliances connected therewith, or their equivalents, in the manner and for the purpose herein set forth."

No. 25,552. Morris L. Keen, of Roger's Ford, Pa., for an "Improved mode of distilling liquids from coal tar."

"I claim the application of additional heat at or near the surface of the coal tar, or other similar hydrocarbon, when used in combination with pressure in the boiler, for the purpose of preventing the tarry foam from rising and overrunning the still, and thus endangering the operator as well as the premises, as herein described."

Re-issues.

James Perkins and William H. Burnet, of Newark, N. J., for an "Improved machine for bending metal pipe."— Patented 14th October, 1856.—Re-issued 20th September, 1859.

"We claim the mandrel *d*, substantially as herein described, and therewith traversing roller *b*, or its equivalent, for bending coils of metal pipe, and in combination therewith the furnace, in the manner and for the purposes set forth."

David B. Rogers, of Pittsburgh, Pa., for an "Improvement in cultivator teeth."—Patented 1st November, 1845.—Re-issued, 20th September, 1859.

"I claim making the shank or upper part of cultivator teeth of thin plate steel, shaped or curved round in front, substantially as herein-before described, for the purpose of securing the necessary strength to permit the tooth to be made entire, shank and blade, of a single piece of metal, and also of enabling the tooth to be secured in its place in the beam by means of a wedge driven into the cavity of the shank, substantially as herein-before described."

Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

(A.) "I claim the arrangement, substantially as described, of a cutting apparatus and a reel with respect to a driving wheel, and a grain wheel, or its equivalent, and a raker's seat, or its equivalent, so that the major part of the weight of the cutting apparatus and reel shall be in advance of the axis of oscillation of the machine on the said wheels while the raker's seat or stand shall be located behind that axis, and the machine with the raker thereon nearly balanced on its axis of oscillation, substantially as described."

(B.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim the combination of a tongue, or its equivalent, to draw the machine by a driving wheel and gearing arranged at the side of the frame, a short platform, a reel to gather the grain to the platform, and a stand or seat for the raker fixed upon the machine, so as to enable the raker conveniently to discharge the grain and lay it in gavels upon the ground at the side of the swath and out of the return path of the horses, substantially as described."

(C.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim a seat or stand on the reaping machine for the support of the raker laterally and in front, substantially as described."

(D.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim the combination of the reel, the divider, and the raker's seat or stand, co-operating together in such manner that the grain deposited upon the platform by the reel and divider may readily be grasped and discharged from the machine by the raker at his seat, substantially as described."

(E.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim the combination in a reaping machine of the following elements, namely, the draught and the gearing arranged at the side of the machine, two compressors, one arranged at each end of the cutter, the short reel to sweep over the space between the compressors and the short platform, substantially as described."

(F.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim the combination of the grain-guarded platform to receive and retain the cut-grain with the divider and the reel, the whole arranged substantially in the manner and for the purposes described."

(G.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim the combination of the reel support at the rear part of the outer side of the platform with the low flat frame and the divider, arranged substantially as described."

(J.) Cyrus H. McCormick, of Chicago, Ill., for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued, 21st December, 1858; and again re-issued 20th September, 1859.

"I claim the arrangement of the frame, the finger beam, the platform, and the driving wheel and gearing relatively to each other so as to secure an unobstructed gavelling space G at the side of the platform, behind the finger beam, substantially as herein described."

(I.) Cyrus H. McCormick, of Chicago, Ill, for an "Improvement in reaping machines."— Patented 23rd October, 1847.—Re-issued 24th May,

1853; again re-issued 21st December, 1858; and again, 20th September, 1859.

"I claim a reaping machine frame, consisting, namely, of two principal beams (D, D¹, and M,) crossing each other and arranged relatively to the supporting wheels, so as to give support to a platform not extending behind the gearing and without interfering with the cutter on one side, or the gavelling space on the other, substantially as described."

(H.) Cyrus H. McCormick, of Chicago, Ill, for an "Improvement in reaping machines."—Patented 23rd October, 1847.—Re-issued 24th May, 1853. —Again re-issued 21st December, 1858; and again re-issued 20th September, 1859.

"I claim, first, a dividing board, having a surface inclining towards the cutter and platform, and an outer dividing line, and an inner dividing line, arranged and acting substantially as described. Second, I claim the combination of the inclined dividing board with a guide bar, substantially as described. Third, I claim the combination of a reel, with the inclined dividing board, substantially as described. Fourth, I also claim the combination of a reel with the dividing board and guide bar, substantially as described."

Royal E. House, of Binghampton, N.Y., for an "Improvement in magnetic printing telegraphs." Patented 18th April, 1846.—Re-issued 20th September, 1859.

"I claim, first, a series of keys, each corresponding to a character, in combination with a revolving part of a circuit, so that the touching of one of the former may cause circuit to be broken or closed for the purpose of printing, substantially as specified, when the revolving part of the circuit is in a certain required angular position, properly corresponding to the key struck. Second, I claim a series of keys, each corresponding to a character, in combination with a revolving portion of a circuit, and a shaft provided with pins arranged in a helix, all substantially such as specified, or the equivalents of the whole, acting to cause circuit to be broken or closed, when the revolving part is in a certain angular position in proper correspondence with the key struck for the purpose of printing a proper corresponding letter by means of any suitable machinery. Third, I claim a key-board or series of keys, in combination with a rotating portion of a circuit and a type wheel, or its equivalent, so governed as to present a proper letter corresponding with a key touched to produce an impression, the combination being substantially such as set forth. Fourth, I claim, in combination, a single circuit of conductors, a key-board, or series of keys, a revolving portion of a circuit, and a type wheel, substantially such as specified, and these also in combination with a printing press, and with a key-shaft, or either of them, each part being substantially such as described. Fifth, I claim a series of keys, each corresponding to a character in combination with a type wheel having similar corresponding characters, both substantially as specified, when so connected by any appropriate devices, that a certain type shall be in a certain locality, when a corresponding key is actuated, and I claim these two elements, in combination with a single circuit of conductors, and with a printing apparatus, or either of them. Sixth, I claim actuating or driving a revolving portion of a circuit, or a key-shaft, or both of them, by means of a prime mover acting upon them through a friction connection, the mode of operation being substantially as specified, and doing away with sudden jars, and increasing rapidity of operation, when contrasted with a positive connection between such parts and a prime mover, and also permitting the two to move with varying velocities. Seventh, I claim actuating or driving a key-shaft and a revolving portion of a circuit, or either of them by means of a friction connection with a prime mover when the velocity of such prime mover is controlled by a governor, or some equivalent, for the purpose, which either prevents its moving too fast or increases its velocity when going too slow, or perform both these duties, substantially under the mode of operation described. Eighth, I claim governing or controlling the motions of a prime mover, which actuates a printing apparatus by the breaking and closing of an electric or galvanic circuit, so that such apparatus is put in operation both by the breaking of a circuit and by the closing thereof, substantially in the manner specified, and also the controlling of a printing apparatus so that it shall be permitted to print, when a spring returns to its normal position at the time that a circuit is broken, the mode of operation being substantially such as set forth. Ninth, I claim in a printing telegraph moving the paper to the types to produce an impression on the former, substantially in the manner described, as distinguished from former modes of operation, by which the types were moved towards the paper. Tenth, I claim in combination a revolving type wheel and a roller or its equivalent, charged with coloring matter, so as to deposite such matter on the types as they in succession come in contact with the roller, the combination being substantially such as set forth; and this I claim also when the roller is grooved as described. Eleventh, being aware of the facts that type wheels have been permitted to revolve step by step when controlled by escapements, and when such escapements have been actuated either by a prime mover governed by a pendulum, or by electric magnetic force, I claim actuating an escapement which controls the motions of a type wheel by a prime mover, whose motions are regulated by the breaking and closing of a circuit, under a mode of operation substantially such as described, whereby a small force derivable from magnetism controls any necessary power of a prime mover, there being a breaking and closing of circuit correspondent with each vibration of the escapement. Twelfth, I claim a hydraulic regulator, substantially such as described and for the purposes set forth. Thirteenth, I claim a hydraulic regulator, in combination with a type wheel and a printing apparatus and a prime mover, the combination being substantially as specified, and causing the press to print when the type wheel ceases to move for a longer time than usual. Fourteenth, in combination with a type wheel and a printing press or apparatus, I claim apparatus substantially such as specified, for making an alarm, when that apparatus is permitted or caused to act by the breaking and closing of the same circuit of conductors, which by its breaking and closing permits the printing apparatus to come into action."

Designs.

Eliza A. Murdock of Boston, Mass., for a "Design for a skating or riding cap for ladies."

"I claim the design above described, and as shown more particularly in the drawings of a cap for ladies, misses, and children, the same to be made of Berlin or Shetland worsted, or any other suitable material capable of being knit into the form as above described."

John Martino, of Philadelphia, Pa., assignor to D. Stuart and J. R. Peterson, of same place, for a "Design for a cooks' stove."

"I claim the combination and arrangement of ornamental figures and forms, represented in and by the accompanying drawing, as forming together an ornamental design for the front, side, and top plates of a cooking stove."

John Martino and James Horton, of Philadelphia, Pa., assignors to D. Stuart and J. R. Peterson, of same place, for a "Design for cylinder stoves."

"We claim the combination and arrangement of the ornamental figures and forms represented in and by the accompanying drawing, as forming together the plates of a cylinder stove."

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NUMBER of VISITORS for the Week ending 8th October, 1859.

Mornings - - - -	1214
Evenings - - - -	1980
Total - - -	3194

Since the opening of the Museum Free Daily (May 12, 1858,)—150,339.

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Great Seal Patent Office,
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 603. FRIDAY, OCTOBER 14, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1813. To ALEXANDER SOUTHWOOD STOCKER and GEORGE JAMES FARMER, both of Birmingham, in the county of Warwick, Manufacturers, for the invention of "Certain improvements appertaining to articles to be affixed to boots and shoes, and to the feet of animals, and in machinery and means to be employed for producing the same."

On their petition, recorded in the Office of the Commissioners on the 6th day of August, 1859.

1842. To FREDERIC LOUIS LAWRENCE, of 50, Berner's Street, Oxford Street, in the county of Middlesex, Dentist, for the invention of "Improvements in coloring and hardening elastic gums for dental purposes."

On his petition, recorded in the Office of the Commissioners on the 9th day of August, 1859.

2074. To HENRY WILLIAM RIPLEY, of Bradford, in the county of York, Dyer, for the invention of "Improvements in finishing dyed piece goods."

On his petition, recorded in the Office of the Commissioners on the 12th day of September, 1859.

2090. To SALOMON HECHT, of 36, Gresham Street, London, for the invention of "A new mode of advertising."

On his petition, recorded in the Office of the Commissioners on the 14th day of September, 1859.

2122. To THOMAS ELLIOTT, of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in lubricators, especially applicable to steam engines."

On his petition, recorded in the Office of the Commissioners on the 17th day of September, 1859.

2137. To ALEXANDRE MANBRÉ, of No. 10, Rathbone Place, Oxford Street, London, in the county of Middlesex, Brewer, for the invention of "The manufacture of a coloring matter for coloring spirits, beers, vinegar, and other liquids and beverages."

On his petition, recorded in the Office of the Commissioners on the 20th day of September, 1859.

2148. To HENRY ALFRED JOWETT, of Sawley, in the county of Derby, Civil Engineer, for the invention of "Improvements in breaks for railway and other carriages, with means of communication between guard or conductor and driver."

2149. To JOHN BLAIR, of Manchester, in the county of Lancaster, Cotton Dealer, for the invention of "Certain improvements in the treatment of yarns during the operation of spinning, which treatment is also applicable in 'roving,' 'slubbing,' or 'doubling' machines."

2152. To ROBERT DAVISON, of London Street, in the city of London, Civil Engineer, for the invention of "Improvements in the construction of holders for containing liquid or air and other aeriform fluids, especially adapted for use in refrigerators."

2153. And to JOSEPH HARRISON, of Glossop, in the county of Derby, Overlooker of Spinners, for the invention of "An improvement in spinning mules, applicable also to the machines called twiners."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of September, 1859.

2156. To RICHARD BUTLER MOWBRAY and THOMAS COATMAN, of the city of Manchester, in the county of Lancaster, Engineers, for the invention of "Improvements in machinery or apparatus connected with and applicable to steam boilers and heating apparatus."

2158. And to EDWARD JONES, of the Russell's Hall Iron Works, Dudley, in the county of

Worcester, Furnace Manager, for the invention of "An improvement or improvements in the manufacture of coke in open coke fires, or heaps."

On both their petitions, recorded in the Office of the Commissioners on the 22nd day of September, 1859.

2160. To CHARLES JAMES PARRY, of the firm of Parry and Briddon, of the city of Manchester, in the county of Lancaster, Shirt Front and Collar Manufacturers, for the invention of "Improvements in certain apparatus applicable to sewing machines."

2162. To THOMAS BENTLEY, of Margate, in the county of Kent, Ironmonger, for the invention of "Improvements in agricultural implements for gathering and destroying weeds and stubble."

2164. And to ROBERT JAMES, of Manchester, in the county of Lancaster, Machine Maker, for the invention of "Improvements in machinery or apparatus for covering crinoline, applicable also to braiding fancy patterns for other articles."

On their several petitions, recorded in the Office of the Commissioners on the 23rd day of September, 1859.

2166. To JOHN GEDGE, of the firm of John Gedge and Son, of 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agents, for the invention of "An improved stamp holder and cutter."—A communication from abroad by Denis Nefflier and Pierre Blaudin, both residing at Dijon, in the empire of France.

2168. To JAMES COEY, of Liverpool, in the county of Lancaster, Provision Merchant, for the invention of "Improvements in or applicable to packages for containing butter, lard, and other articles."

2170. To THOMAS BARNABAS DAFT, of Tottenham, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in coating metal conductors, suitable for electric telegraphs."

2172. And to JOHN TODD, of Kent Iron Works, Greenwich, in the county of Kent, Engineer, for the invention of "Improvements applicable to screw propellers in the propulsion of vessels."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of September, 1859.

2174. To JAMES FERNIHOUGH, of Dukinfield, in the county of Chester, Engineer, for the invention of "Improvements in pistons, plungers, and buckets."

On his petition, recorded in the Office of the Commissioners on the 26th day of September, 1859.

2182. To ROBERT COALES, of 53, Chancery Lane, in the county of Middlesex, for the invention of "An improved preparation or preparations for promoting the growth and otherwise improving the hair, and for the application of a certain material for like purposes."

2184. To CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in mixing or combining and deodorizing oil made from gas tar and other oils."—A communication from abroad by George Wagstaff Yapp, residing at Paris, in France.

2186. To JOHN RAYMOND PIEDNUE, of Royal Mint Refinery, Royal Mint Street, in the county of Middlesex, Assayer, for the invention of "An improved apparatus for transmitting motive power."—A communication from Alphonse Cheron, Engineer, and Desiré Honoré Sole, Professor, persons residing at Paris, France.

2188. And to PASCHAL J. LEJEUNE-CHAUMONT, of Faubourg Vivegnies, 138, Liége, for the invention of "Improvements in fire arms and ordnance, and in projectiles and cartridges to be used therewith."

On their several petitions, recorded in the Office of the Commissioners on the 27th day of September, 1859.

2190. To WILLIAM COLLINS, of Salford, in the parish of Manchester, and county of Lancaster, Engineer and Brass Founder, for the invention of "Improvements in stand pipes for hydrants."

2192. To WILLIAM JOHN DORNING, of Manchester, in the county of Lancaster, Engineer and Manager for Messrs. Edward T. Bellhouse and Co., of the same place, for the invention of "Certain improvements in traction engines."

2194. To EDMUND SMALL CATHELS and SAMUEL SPLATT, both of Dover, in the county of Kent, for the invention of "Improvements in gas meters."

2200. And to PATRICK ROBERTSON, of Sun Court, Cornhill, in the city of London, for the invention of "Improvements in the manufacture of manure."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of September, 1859.

2202. To CHARLES STEVENS, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for the invention of "An improved steam dredging boat."—A communication from abroad by Yollet, Babin, and Gâche ainé, of Paris, in the empire of France.

2203. To GEORGE GORDON PAGE, of Whitehall, in the county of Middlesex, Civil Engineer, and CHARLES LUNGLEY, of Deptford, in the county of Kent, Ship Builder, for the invention of "Improvements in gangways or step ladders, applicable to floating bodies and other useful purposes."

2205. To WILLIAM JOHNSON, of the firm of Johnson and Booth, of Horse Shoe Court, in the city of London, Manufacturers, for the invention of "An improvement in purses."

2206. To EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the county of Essex, Ironfounder, for the invention of "Improvements in screw presses."

2207. To CLEMENT DUPLOMB, of Rue de Rivoli, No. 112, Paris, France, Merchant, for the invention of "Improvements in presses for pressing or finishing textile fabrics."

2208. To ALEXANDER WILLIAM WILLIAMSON, of University College, and LOFTUS PERKINS, of Francis Street, Gray's Inn Road, Civil Engineer, for the invention of "Improvements in steam boilers."

2209. To WILLIAM KEMPE, of Holbeck Mills, Leeds, for the invention of "Improvements in machinery for raising the pile of woollen and other cloths."

2210. And to ROBERT OXLAND, of Plymouth, for the invention of "Improvements in the treatment of saccharine matters."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of September, 1859.

2211. To JAMES WADSWORTH, of Manchester, in the county of Lancaster, Gas Engineer, for the invention of "Improvements in instruments or apparatus for measuring the quantity, for regulating the pressure, and for controlling the flow or passage of gas used for purposes of illumination, and in the construction of gas burners."

2212. To THÉOPHILE GUIBAL, Professor at the School of the Hainaut Mines, in the city of Mons, Belgium, for the invention of "Modifying the installation and working of cables used in springing up mines."

2213. To WILLIAM HARTLEY, of Bury, in the county of Lancaster, Engineer, for the invention of "Certain improvements in steam engines."

2215. To THOMAS BUCKHAM, of Gloucester, in the county of Gloucester, Civil Engineer, for the invention of "Improvements in the switches for railways."

2216. To JOB ORTON SMITH, of 18, Warwick Court, Gray's Inn, in the county of Middlesex, Gentleman, for the invention of "Improvements in the construction of children's carriages called 'perambulators.'"

2217. To BENJAMIN ATKINSON, of Rainham, in the county of Essex, for the invention of "Improvements in railway brakes."

2218. To WILLIAM HENRY BUCKLAND, of the Maesteg Iron Works, in the county of Glamorgan, Iron Master, for the invention of "Improvements in the preparation of peat."

2219. To HERBERT WILLIAM HART, of Fleet Street, in the city of London, Gas Engineer, for the invention of "Improvements in argand and other gas burners, partly applicable to oil and other lamps."

2220. To WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in railway signal apparatus."—A communication from abroad, by Messrs. Leon Jucqueau and Auguste Desgoffe, Civil Engineers, of No. 29, Boulevart St. Martin, Paris.

2221. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the construction of apparatus for reworking the waste steam of steam-engines."—A communication from abroad, by Messrs. Dalifol and Company, of Paris, Manufacturers.

2222. To MARTIN and ALEXANDER SAMUELSON, both of Scott Street Foundry, Hull, in the county of York, Engineers and Iron Ship Builders, for the invention of "Improvements in planing, slotting, and grooving machines."

2223. To the Honourable WILLIAM ERSKINE COCHRANE, of Osnaburgh Terrace, Regent's Park, in the county of Middlesex, for the invention of "Improvements in chairs and apparatus for receiving and securing the ends of the rails of railways."

2224. And to WILLIAM VAUGHAN EDWARDS, of Swindon, in the county of Wilts, Ironfounder, for the invention of "Improvements in the construction of ways and apparatus to facilitate the conveyance of mails, goods, and passengers."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of September, 1859.

2226. To WILLIAM PARKIN, of Sheffield, in the county of York, Engineer, and JAMES BATES, of Hyde, in the county of Chester, Cotton Spinner, for the invention of "Improvements in wedges for railway chairs."

2229. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in reverberatory puddling and other furnaces employed in the manufacture of iron."—A communication from abroad by G. Dallemagne, of Sclessin, Belgium.

2231. To JOHN MILLAR, of Edinburgh, in the county of Mid Lothian, North Britain, Glass Merchant, for the invention of "Improvements in reflectors for diffusing artificial light."

2232. To LEOPOLD NEWTON, Cotton Spinner, of Oldham, and JOHN GREAVES, Manager, of Staleybridge, both in the county of Lancaster, for the invention of "Improvements in cop tubes or spools, and in machinery for manufacturing the same."

2233. To GEORGE BRIDGETT, of Pilcher Gate, in the town and county of the town of Nottingham, Lace Manufacturer, for the invention of "A new mode or method of manufacturing Shetland or other falls from the stocking frame."

2234. And to JOSEPH WRIGHT, of the Teesdale Iron Works, South Stockton, in the parish of Thornaby and North Riding of the county of York, Ironfounder and Engineer, for the invention of "Improvements in apparatus for raising water and minerals from mines, which improvements are applicable to raising and hauling weights generally."

On their several petitions, recorded in the Office of the Commissioners on the 1st day of October, 1859.

2235. To EDMUND MOREWOOD, of Enfield, in the county of Middlesex, for the invention of "Improvements in coating metals."

2237. To LOUIS HENRI IGNACE LEMAIRE, of Stamford Street, Blackfriars, in the county of Surrey, Commercial Traveller, for the invention of "Improvements in the manufacture of chenille."

2238. And to WILLIAM RICHARDSON EARLE and EDWIN JOHN BARNES, of Queen's Terrace, Queen's Head Lane, Islington, in the county of Middlesex, Artists in Hair, for the invention of "Improvements in photographic and other portraits."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of October, 1859.

2239. To GEORGE FREDERICK GREINER, of No. 57, Wells Street, St. Marylebone, in the county of Middlesex, Pianoforte Maker, for the invention of "Improvements in the construction of pianofortes."

2240. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Office, No. 39, Rue

de l'Echiquier, Paris, in the empire of France, for the invention of "An improved coupling joint for pipes or tubes of soft metal, caoutchouc, gutta-percha, or other yielding matter."—A communication from Louis J. Marie, a person residing in Paris.

2241. To Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "An improved 'porte-jupe,' or apparatus for suspending dress-skirts and other objects."—A communication from Louis Auguste Mangin, residing in Paris.

2242. To John Loftus, of Elton Fold, near Bury, in the county of Lancaster, Manager, for the invention of "Improvements in machinery for combining and carding cotton or silk and wool."

2243. To Richard and William Hollis, of the firm of Richard Hollis and Son, of High Coggs, Witney, in the county of Oxford, Agricultural Implement Makers, for the invention of "Improvements in the construction of apparatus for winnowing and dressing grain."

2244. To Samuel Robert English, Seal Engraver and General Die Sinker, of Birmingham, in the county of Warwick, for the invention of "A machine or apparatus for taking copies of writing."

2245. To Robert Brearley the younger, of Batley, in the county of York, Manufacturer, for the invention of "Improvements in means or apparatus for raising the nap or pile of cloths."

2246. To William Backett, of Old Kent Road, in the county of Surrey, Oilman, for the invention of "Improved cleansing powders."

2247. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved apparatus for generating steam."—A communication from abroad by John Mason Carr, of New York, in the United States of America.

2248. And to John Mitchell Rose and Richard Carte, of the firm of Rudall Rose Carte and Company, of Charing Cross, in the city of Westminster, Musical Instrument Makers, and William Pikesley, Mechanic, in the employ of Rudall Rose Carte and Company aforesaid, for the invention of "Improvements in drums."

On their several petitions, recorded in the office of the Commissioners on the 4th day of October, 1859.

2251. To John Thompson, of Witton, near Northwich, Cheshire, and John Thompson the younger, of Castle, Northwich aforesaid, for the invention of "The manufacture of salt by an improved and more economical mode."

2253. To Andrew Whytock, of No. 12, Little St. Andrew Street, Upper St. Martin's Lane, London, in the county of Middlesex, Superintendent, for the invention of "A mode or method of applying joined sheets of metal for roofing and other purposes."

2255. To John Shields, of the city and county of Perth, North Britain, Power Loom Manufacturer, Perth and Cromwell Park, for the invention of "Improvements in Jacquard looms or machinery for weaving."

2257. To Jehoiada Joseph Eagleton, of New York, in the United States of America, but now residing at Birmingham, in the county of Warwick, Manufacturer and Merchant, for the invention of "An improvement or improvements in annealing furnaces."

2259. To George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enock Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improvements in the method of, and apparatus for, vaporizing liquids and heating air."—A communication from abroad by Messrs. Gargan and Co., of Villette, France, Builders.

2261. To John Scott, of Sunderland, in the county of Durham, Anchor Smith, for the invention of "Improvements in the manufacture of anchors."

2263. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in revolving fire-arms."—A communication from abroad by Messrs. Perrin and Delmas, of Paris, in the empire of France.

2265. To William Louis Earle, of Alfred Place, Bedford Square, in the county of Middlesex, Gentleman, for the invention of "Improvements in apparatus for promoting the combustion of smoke and gases arising from fuel."

2267. To John Macintosh, of North Bank, Regent's Park, for the invention of "Improvements in the manufacture of flexible tubes."

2269. And to John Macintosh, of North Bank, Regent's Park, for the invention of "Improvements in coating metallic conductors for electric telegraphs."

On their several petitions, recorded in the office of the Commissioners on the 5th day of October, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

13th October, 1859.

936. Thomas Bird, of the city of Manchester, in the county of Lancaster, Engineer, for an invention of "Improvements in the application and use of a certain natural product or products in the manufacture of pickers for looms, drawing rollers for spinning machinery, cop tubes, and for steps and bushes generally where lubrication is required."—Dated 14th April, 1859.

938. Joseph Beattie, of Lawn Place, South Lambeth, in the county of Surrey, Engineer, for an invention of "Improvements in the means of preventing locomotive engines and carriages in motion on railways leaving or running off the rails."—Dated 14th April, 1859.

943. Alexander McDougall, of Manchester, in the county of Lancaster, Chemist, for an invention of "Improvements in coating metallic surfaces."—Dated 14th April, 1859.

945. Stephen Barnwell, of Coventry, in the county of Warwick, Manufacturer, and Alexander Rollason, of Birmingham, in the same county, Chemist, for an invention of "Improvements in the manufacture of umbrellas, parasols, hats, or hat covers, caps, capes, coats, mantles, dresses, gloves, and other similar articles."—Dated 14th April, 1859.

949. George Ashcroft, of Cardiff, in the county of Glamorgan, Engineer, for an invention of "Improvements in working presses and other hydraulic machines."—Dated 15th April, 1859.

954. John Glasgow and Samuel Hand, of the city of Manchester, in the county of Lancaster, for an invention of "An improved variable circular motion applicable to slotting, shaping, and planing machines or similar purposes."—Dated 16th April, 1859.

958. John Hamilton, of Number 8, Exchange Square, Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in apparatus for regulating prime movers driven by water."—Dated 16th April, 1859.

959. Alfred Courage, of Bagillt, in the county of Flint, Smelter, for an invention of "An improved method of obtaining the metallic particles contained in fumes or vapours from lead and other smelting works."—Dated 16th April, 1859.

971. John Whitaker, of Bedford Mill Iron Works, near Leigh, in the county of Lancaster, Agricultural Machine Maker, for an invention of "Improvements in mowing machines."—Dated 18th April, 1859.

972. Joseph Seaman, of Linslade, in the county of Buckingham, Engineer, for an invention of "Improvements in agricultural implements for working or cultivating the soil."—Dated 18th April, 1859.

977. John Freer, of Rothley, in the county of Leicester, Agricultural Implement Maker, for an invention of "Improvements in machines for planting grain and seed, and an improved seed feeder and meter for planting machines."—Dated 18th April, 1859.

981. Frederick Edwards and William Edwards, of the city of Coventry, Machinists, for an invention of "Improvements in looms for weaving ribbons and other like goods."—Dated 18th April, 1859.

985. Peter Reynolds, of Belfast, in the county of Antrim, Ireland, and James Reynolds, of the same place, Engineers and Machinists, for an invention of "Improvements in machinery or apparatus for hackling flax and other fibrous materials."—Dated 19th April, 1859.

992. Quin Beck, of the firm of James Meharg and Co., of Belfast, in the county of Antrim, Manufacturers, for an invention of "Improvements in stoves."—A communication from abroad, by James Cherry, of Vermont, U.S.—Dated 20th April, 1859.

995. Alexander William Williamson, of University College, for an invention of "Improvements in obtaining extracts from the liquorice root."—Dated 20th April, 1859.

1008. Edward Clark, of New York, in the United States of America, but now of Morley's Hotel, in the city of Westminster, Gentleman, for an invention of "Improvements in sewing machinery."—A communication from abroad by Isaac Merritt Singer, of New York, aforesaid.—Dated 21st April, 1859.

1014. Charlotte Mansel, of Plymouth, in the county of Devon, for an invention of "A folding travelling case."—Dated 23rd April, 1859.

1019. William Dicks, of Leicester, Boot Manufacturer, and William Hopwell, also of Leicester, Machinist, for an invention of "Improvements in machinery for making screws, and applying them in fixing the soles of boots and shoes."—Dated 23rd April, 1859.

1024. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "An improvement in the manufacture of woollen cloth."—A communication from Louis Victor Lemaignen, residing at Lisieux, France.—Dated 23rd April, 1859.

1031. George Ward, of Blackburn, in the county of Lancaster, Gold Patent Thread Manufacturer, for an invention of "Improvements in machinery or apparatus for making healds."—Dated 25th April, 1859.

1035. James Holmes, of Street, Somerset, Accountant, for an invention of "Improvements in applying eyelet holes to boots and shoes, and in binding boots and shoes."— Dated 25th April, 1859.

1036. Augustus William Gadesden, of 56, Leman Street, Goodman's Fields, for an invention of "Improvements in producing solutions of sugar."—Dated 25th April, 1859.

1037. Edward Humphrys, of Deptford, for an invention of "Improvements in steering apparatus."—Dated 25th April, 1859.

1062. Sir Thomas Tassell Grant, K.C.B., of 20, Chester Terrace, Regent's Park, in the county of Middlesex, for an invention of "Improvements in ships' cooking apparatus."—Dated 27th April, 1859.

1065. Charles Randolph and John Elder, of Glasgow, in the county of Lanark, North Britain, Engineers, for an invention of "Improvements in steam engines and boilers."—Dated 28th April, 1859.

1079. Edgar Andrew Porteus, of 18, Warwick Square, Paternoster Row, Engraver and Printer, and William Henry Burke, of 79, Cannon Street West, Manufacturer, for an invention of "Improvements in printing and other presses."—Dated 29th April, 1859.

1100. Daniel Moore, of Brooklyn, in the state of New York, United States of America, for an invention of "Improvements in machinery for rubbing or dressing types."—Dated 2nd May, 1859.

1129. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in seed depositors or drills."—A communication from abroad by Louis Achille Pruneau, formerly Notary, of Paris.—Dated 5th May, 1859.

1161. George Gibson Bussey, of Dunn's Passage Factory, 485, New Oxford Street, in the county of Middlesex, Manufacturer of Leather Goods, for an invention of "An improved contrivance for carrying cartridges, and to facilitate using them."—Dated 9th May, 1859.

1183. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "A mode of protecting the mariner's compass agaist local attraction."—A communication from abroad by Samuel C. Bishop, residing at New York, in the United States.—Dated 11th May, 1859.

1197. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Certain improvements in knitting machines."—A communication from abroad by Mr. Jonas Bradley Aiken, of Manchester, in the county of Hillsborough, and state of New Hampshire, in the United States of America, Manufacturer.—Dated 13th May, 1859.

1222. Lemuel Dow Owen, of 192, Tottenham Court Road, in the county of Middlesex, Engineer, for an invention of "An improved menstrual receiver or truss."—A communication from abroad by Herman W. Ladd, of Boston, Massachusetts, United States of America. — Dated 17th May, 1859.

1251. William Colborne Cambridge, of Bristol, Agricultural Implement Maker, for an invention of "Improvements in thrashing and winnowing machines."—Dated 20th May, 1859.

1500. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "Improvements in apparatus for winding thread of cotton or linen or other fibrous materials, or sewing silk or similar articles upon bobbins or spools."—A communication from abroad by Lawson C. Ives, of Hartford, Connecticut, United States of America. — Dated 22nd June, 1859.

1654. Thomas Wright, of 9, George Yard, Lombard Street, in the city of London, Engineer, for an invention of "Improvements in the permanent way of railways, and in the means of preventing railway accidents thereon." — Dated 12th July, 1859.

1668. Joseph Morgan, of Manchester, for an invention of "Improvements in apparatus for making candles."—Dated 14th July, 1859.

1718. Joseph Hartley, of Romiley, near Stockport, in the county of Chester, Manager, for an invention of "Improvements in machinery for regulating the velocity of steam and other engines." —Dated 22nd July, 1859.

1765. Joseph Wood, of York City, Surgical Instrument Maker, for an invention of "An improved truss for hernia."—Dated 30th July, 1859.

1774. William Campbell, Machinist, and George Worstenholm, Machinist, both of Birmingham, in the county of Warwick, for an invention of "Certain improvements in machinery for the manufacturing of wrought nails, as also in the treatment of the iron from which such or other kinds of nails may be made."—Partly a communication from abroad by George William Allen, of Rhode Island, United States of America.—Dated 1st August, 1859.

1808. Robert Thomson Pattison, residing at Daldorch, in the county of Ayr, in Scotland, for an invention of "Improvements in dyeing certain woven fabrics."—Dated 5th August, 1859.

1909. Henry William Harman, of Manchester, in the county of Lancaster, Civil Engineer, for an invention of "Improvements in steam boilers and in working the same, and in safety valves and apparatus connected therewith." — Dated 19th August, 1859.

1944. Michael John Stark, of the city of Norwich, Chemist and Merchant, for an invention of "Producing a new chemical or artificial manure from bones and all such animal and fatty matters."—Dated 26th August, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 12th October, 1859, inclusive.*)

11th October.

2385. Anton Bruno Seithen, of 12, Alpha Place, Caledonian Road, London, in the county of Middlesex, Engineer, for an invention of "Improvements in machinery or apparatus for cutting cork, in the processes of shaping and making stoppers of cork, and in the treatment of cork to be employed in the said processes, and to be applied to other useful purposes."—Dated 11th October, 1856.

2394. William Todd and Jacob Todd, of Heywood, in the county of Lancaster, Spinners and Manufacturers, for an invention of "Certain improvements in power-looms for weaving."—Dated 13th October, 1856.

12th October.

2405. Thomas Allen, of Clifton, in the city and county of Bristol, for an invention of "An improvement in the manufacture of iron and other metallic bedsteads."—Dated 14th October, 1856.

2434. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the manufacture of tufted pile fabrics."—A communication.—Dated 17th October, 1856.

2460. Anthony Lorimier, of Bedford Square East, Commercial Road, in the county of Middlesex, for an invention of "An improvement in re-working vulcanized india-rubber."—Dated 20th October, 1856.

2544. Charles de Jongh, of Lautenbach, near Guebwiller, in the empire of France, Manufacturer, for an invention of "An improved method of and machinery for combing and preparing silk, flax, and other fibrous substances."—Dated 29th October, 1856.

2545. Peter Fairbairn, of Leeds, in the county of York, Machine Manufacturer, and Robert Newton, of Liverpool, in the county palatine of Lancaster, Gentleman, for an invention of "Improvements in machinery for dressing waste silk."—Dated 29th October, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 12th October, 1859, inclusive.*)

11th October.

356. Joseph Robinson, of Southampton, in the county of Hants, Superintendent Joiner to the Peninsular and Oriental Steam Company, for an invention of "Improvements in ventilators."—Dated 12th October, 1852.

371. Walter McFarlane, of Glasgow, in the county of Lanark, North Britain, Ironfounder, for an invention of "Improvements in water-closets."—Dated 13th October, 1852.

12th October.

358. William H. Smith, of the county of Montgomery, and state of Pennsylvania, America, Clergyman, for an invention of "Improvements in the manufacture of lava ware."—Dated 12th October, 1852.

557. Robert Mallet, of the city of Dublin, in Ireland, Engineer, for an invention of "Improvements in fireproof and other buildings and structures."—Dated 28th October, 1852.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.

AUSTRIA.*

List of Patents which were Delivered, Prolonged, or became Void during the Month of July, 1859.†

(*Communicated by the Austrian Government.*)

1. Patents Delivered.

1. Hermann Hirsch, of Berlin, represented by Georg Märkl, Vienna, for "A so-called 'centrifugal screw.'"—5 years.—(Public.)—Dated 6th July, 1859.
2. Franz Stampf, of Vienna, for "A ventilating apparatus with a regulator for mixing the gases issued by fuel, and convertible into smoke, for the purpose of consuming the same completely."—1 year.—(Public.)—Dated 6th July, 1859.
3. Leonhard Wolheim, of Triest, for "Improvements in the sensibility of scale-beams."—1 year.—(Public.)—Dated 6th July, 1859.
4. Henry Justinian Newcome, of Shenley, represented by Georg Märkl, Vienna, for "An improved apparatus for heating buildings, drying rooms, for washhouses, warming plates for cooking, &c."—3 years.—(Public.)—Dated 6th July, 1859.
5. William and John Banks, of Bolton, represented by Edward Schoch, Vienna, for "A peculiar apparatus for bleaching, washing, scouring, and dyeing cotton, flax, and other vegetable raw substances or fabrics made thereof, and rags."—2 years.—(Secret.)—Dated 8th July, 1859.
6. Chaim Hirsch, of Lemberg, for "Clarifying petroleum or naphtha, and obtaining a limpid and inodorous lighting substance therefrom."—1 year.—(Secret.)—Dated 8th July, 1859.
7. Philipp Eisenhut, of Leitmeritz, for "Improvements in pianofortes, by combining the sounding post, the hook bar, and the shoring into one piece of cast iron."—1 year.—(Public.)—Dated 8th July, 1859.
8. Friedrich Max Bode, of Vienna, for "A puzzle-lock that cannot be picked."—1 year.—(Public.)—Dated 8th July, 1859.
9. Theophil Berrens, of Verona, for "A portable apparatus for impregnating wood by means

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had at the Library of the Commissioners' Office.

of vitriol of copper and other substances."—5 years.—(Public.)—Dated 8th July, 1859.

10. Anton Proksch, of Görkau, Bohemia, for "A peculiar compound for obtaining inodorous varnish like water, and fire-proof paints for wood, pasteboard, linen, paper, bricks, absorbing stones and metals, and for protecting fruit trees from caterpillars."—1 year.—(Secret.)—Dated 8th July, 1859.

11. Franz Trupp and Joseph Pichler, of Pesth, for "A moveable cooking machine on wheels."—1 year.—(Public.)—Dated 9th July, 1859.

12. Jacob Werner, of Fünfhaus, near Vienna, for "Improvements in making dresses."—1 year.—(Secret.)—Dated 12th July, 1859.

13. Tobias Joseph Schmidt, of Vienna, for "A motor, being a substitute for steam and water power."—1 year.—(Secret.)—Dated 12th July, 1859.

14. Amédée Etienne Charles Joseph Reynaud de Taets, of Marseilles, represented by Georg Märkl, Vienna, for "A composition called 'pyronome,' for blasting rocks."—1 year.—(Secret.)—Dated 12th July, 1859.

15. Simon Schön, of Pesth, represented by Ignaz Gorlitzer, Pesth, for "Improvements in soldering gold articles."—1 year.—(Secret.)—Dated 12th July, 1859.

16. Salomon Taussig, of Prague, for "Improvements in printing and dyeing calico, linen, and woollen fabrics."—2 years.—(Secret.)—Dated 12th July, 1859.

17. Mathias Hubar, of Laibach, for "Improvements in chaff-cutting machines."—1 year.—(Public.)—Dated 12th July, 1859.

18. Conrad Otto, of Vienna, for "Improvements in shower-baths."—1 year.—(Secret.)—Dated 12th July, 1859.

19. Wenzel Bachmann, of Vienna, for "A peculiar mode of assembling the single parts of metal knives and forks, whereby they are made more durable and prevented from rusting."—1 year.—(Public.)—Dated 12th July, 1859.

20. Carl Wessely, of Vienna, for "Universal couplings of two arbors."—1 year.—(Public.)—Dated 13th July, 1859.

21. Heinrich Jacob Giffard, of Batignolles, France, represented by Georg Märkl, Vienna, for "An injection apparatus for feeding steam boilers."—1 year.—(Public.)—Dated 13th July, 1859.

22. Ferdinand Knesy, of Vienna, for "Sheet-iron forms for making double biscuit."—2 years.—(Secret.)—Dated 13th July, 1859.

23. Joseph Ulbricht and Franz Weiss, of Schönlinde, Bohemia, for "Carriages for conveying passengers and goods with breaks belonging thereto."—1 year.—(Secret.)—Dated 17th July, 1859.

24. Joseph Ulbricht and Franz Weiss, of Schönlinde, Bohemia, for "A peculiar kind of stoves and kitchen ranges."—1 year.—(Secret.)—Dated 13th July, 1859.

25. Joseph Dippold, of Vienna, for "Improvements in forks and knives for the field."—1 year.—(Secret.)—Dated 13th July, 1859.

26. August Klein, of Vienna, for "Improvements in his portemonnaie, as patented on the 10th November, 1858."—1 year.—(Secret.)—Dated 13th July, 1859.

27. Franz Tradinick, of Klausenburg, for "A peculiar construction of carriages."—1 year.—(Public.)—Dated 13th July, 1859.

28. Joseph Ulbricht and Franz Weiss, of Schönlinde, Bohemia, for "An apparatus, being a substitute for cellars for the purpose of preserving wine, beer, and other liquids."—1 year.—(Secret.) Dated 13th July, 1859.

29. Johann Baptist Filz, of Vienna, for "A compound liquid for the toilet."—3years.—(Secret.)—Dated 14th July, 1859.

30. Gustav Niemann, of Neunkirchen, near Meth, Hanover, for "A peculiar system of safety locks for iron safes and chests."—1 year.—(Public.)—Dated 14th July, 1859.

31. Georg Fusenegger, of Triest, for "Improvements in his Patent clack valves for water."—2 years.—(Public.)—Dated 16th July, 1859.

32. B. W. Ohligs-Hausmann and C. Fr. Bodmer, of Steyr, Upper Austria, for "A peculiar rolling mill for manufacturing swords."—1 year.—(Secret.)—Dated 16th July, 1859.

33. Raphael Hirz Pitzele, of Drohobyez, Galicia, for "Manufacture of odoriferous and limpid naphtha and photogen gas."—1 year.—(Secret.)—Dated 16th July, 1859.

34. Joseph Ulbricht and Franz Weiss, of Schönlinde, Bohemia, for "A peculiar kind of cast-iron roofings, with cast-iron gutters and skylights."—1 year.—(Secret.)—Dated 16th July, 1859.

35. Heinrich Anciaux, of Ixelles, near Brussels, represented by Georg Märkl, Vienna, for "A peculiar process for obtaining pure saltpetre without refining."—3 years.—(Public.)—Dated 16th July, 1859.

36. Rudolph Bujatti, of Vienna, for "A process for obtaining pressed and printed images of gold, silver, and in all colours and shapes, from foil."—1 year.—(Secret.)—Dated 16th July, 1859.

37. Georg F. Yull, of Pesth, for "Improvements in ploughs, or so-called 'plough cart.'"—1 year.—(Secret.)—Dated 16th July, 1859.

38. Conrad Schember, of Vienna, for "An apparatus for superseding the winding of the lever in centimal weighing machines, whilst the connecting levers are still lifted from their fulcra."—1 year.—(Secret.)—Dated 16th July, 1859.

39. Wolf Hirsch and Hermann Weinstock, of Vienna, for "A machine for the improved manufacture of ear drops."—1 year.—(Secret.)—Dated 21st July, 1859.

40. Georg Roy, of Vienna, for "Improvements in inodorous privies."—1 year.—(Secret.)—Dated 21st July, 1859.

41. Carl Modl, of Ebenfurth, Lower Austria, for "Improvements in guiding millstones, and obtaining a movement of the grind-hole against the stone."—2 years.—(Secret.)—Dated 21st July, 1859.

42. Salomon Ranowitz, of Vienna, for "Improvements in the manufacture of men's dresses with a peculiar lining."—1 year.—(Secret.)—Dated 22nd July, 1859.

43. Vincenz Fialla, of Oberdobling, near Vienna, for "Improvements in caoutchouc bellows."—1 year.—(Secret.)—Dated 22nd July, 1859.

44. Felix Aroux, of Montaure, represented by Georg Märkl, Vienna, for "Improvements in sowing."—1 year.—(Public.)—Dated 22nd July, 1859.

45. Anton Ehmann, of Vienna, for "An improved construction of stoves, kitchen ranges, and other apparatus used in atmospheric heating."—1 year.—(Public.)—Dated 22nd July, 1859.

46. Franz Joseph Murmann and Adam Gabler, of Vienna, for "A disinfecting salt for disinfecting fecal matter, and converting the same into good manure."—1 year.—(Secret.)—Dated 25th July, 1859.

47. Leiser Byk and Leiser Menkis, of Lemberg, for "Manufacture of white cement bricks."—1 year.—(Secret.)—Dated 25th July, 1859.

48. Carl Manuel, of Dijon, France, represented by Cornelius Kasper, Vienna, for "A peculiar centrifugal apparatus for extracting beetroot juice, and for treating the scum of sugar-works."—1 year."—(Secret.)—Dated 25th July, 1859.

49. Johann Lager, of Vienna, for "Improvements in fireplaces of kitchen-ranges, furnaces, and boilers, by introducing the air underneath the grate."—1 year.—(Secret.)—Dated 25th July, 1859.

50. Franz Fischer, of Vienna, for "A peculiar method of obtaining saltpetre of potash whilst manufacturing soap."—1 year.—(Secret.)—Dated 25th July, 1859.

51. Georg Ronsperger, of Vienna, for "Manufacture of military scarfs, tassels of swords, &c."—1 year.—(Secret.)—Dated 25th July, 1859.

52. Johann Fichtner and Sons, of Atzgersdorf, Lower Austria, for "Improvements in the manufacture of glue from animal waste."—1 year.—(Secret.)—Dated 25th July, 1859.

53. August Leonhardi, of Dresden, represented by Dr. Max von Schickh, Vienna, for "A liquid extract of ink."—2 years.—(Secret.)—Dated 25th July, 1859.

54. Carl Ludwig Joseph Diericks, of Paris, represented by Friedrick Rödiger, Vienna, for "Improvements in adjusting gold and silver planchets."—1 year.—(Secret.)—Dated 25th July, 1859.

55. Philipp Popper, of Gran, Hungary, for "Improvements in the manufacture of waterproof foot-coverings without destroying their shape."—5 years.—(Secret.)—Dated 25th July, 1859.

56. Franz Paupie, of Güns, for "A peculiar apparatus for casks for preventing the evaporation of liquids, the rotting of the casks, and the rusting of the iron hoops."—1 year.—(Secret.)—Dated 27th July, 1859.

57. Peter Emich, of Prevali, Carinthia, for "A peculiar liquid for preventing incrustations of boilers."—3 years.—(Public.)—Dated 27th July, 1859.

58. Wilhelm Samuel Dobbs, of Vienna, for "Improvements in American carriage axles and boxes."—1 year.—(Secret.)—Dated 27th July, 1859.

59. Ignaz Wottitz, of Vienna, for "Improvements in his Patent mode of manufacturing cast-steel by smelting chips of wrought iron, together with various substances in crucibles, and of casting the same in forms."—1 year.—(Secret.)—Dated 30th July, 1859.

60. Franz Simon, of Vienna, for "A peculiar electrical machine."—1 year.—(Secret.)—Dated 30th July, 1859.

61. Joseph Schedinz, of Vienna, for "Improvements in his Patent torches."—1 year.—(Secret.)—Dated 30th July, 1859.

62. Matissen Mathias and Leopold Mathias, of Cologne, for "Improvements in the manufacture of Eau de Cologne."—1 year.—(Secret.)—Dated 30th July, 1859.

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2. Patents Prolonged.

1. V. Crunel, for "Improvements in the construction of hand-mills for grinding coffee and other dry grains."—6th year.—(Secret.)—Dated 19th June, 1854.

2. Neuburg and Eckstein and Co., for "A peculiar substance for making all kinds of matches." 5th and 6th years.—(Secret.)—Dated 15th August, 1855.

3. Ignaz and Joseph Bachrach, for "A peculiar construction of high-pressure sealing presses."—2nd year.—(Secret.)—Dated 18th June, 1858.

4. Leopold Apfelthaler, for "Using cross-ties of a peculiar construction for rivetting brewing pans, or other boiling apparatus."—2nd year.—(Public.)—Dated 23rd June, 1858.

5. Max Krauss, for "Improvements in the manufacture of ladies' dresses."—2nd year.—(Secret.)—Dated 18th June, 1858.

6. Isak Wittmann and Adolph Hetsay, for "Improvements in washing sheep and wool."—8th year.—(Secret.)—Dated 23rd July, 1852.

7. Friedrich Paget and Eduard Schmidt, for "Improvements in the construction of atmospheric hammers."—4th year.—(Secret.)—Dated 24th June, 1856.

8. Ludwig Dominik Girard, for "A peculiar system of hydraulic turbines."—2nd year.—(Public.)—Dated 5th July, 1858.

9. Johann Benda, for "A screw press for making scrapers."—2nd year.—(Secret.)—Dated 8th July, 1858.

10. Johann Bucsany, for "An improved table of patterns for cutting ladies' dresses."—2nd year.—(Secret.)—Dated 8th July, 1858.

11. Adam Krutina and David Kanitz, for "Improvements in the manufacture of fly-paper."—2nd year.—(Secret.)—Dated 22nd July, 1858.

12. William Owen, for "Improvements in the manufacture of wheels and tyres of railway carriages."—3rd year.—(Secret.)—Dated 27th June, 1857.

13. Pierre André de Coster, for "An apparatus for refining sugar."—3rd year.—(Secret.)—Dated 27th June, 1857.

14. August Pellet, for "A process for obtaining designs or ornaments in American leather cloth, and on similar fabrics."—2nd year.—(Secret.)—Dated 6th August, 1858.

15. Alexander Heinrich Carl Chiondi, for "A process for utilizing the products obtained in the distillation of peat for lighting and heating purposes."—2nd year.—(Public.)—Dated 12th August, 1858.

16. Joachim and Hermann Hartmann, for "Manufacture of soft resin, the solutions of which when applied in various forms destroy insects, their caterpillars and eggs, without acting as poison on larger animals."—3rd year.—(Secret.)—Dated 27th June, 1857.

17. Abraham Stoer, for "A means of destroying mice and rats."—9th year.—(Secret.)—Dated 9th July, 1851.

18. Alexander Legé and Fleuri Bénoit Pironnet, for "A process for dyeing, drying, and hardening all kinds of wood."—3rd year.—(Public.)—Dated 16th May, 1858.

19. Benjamin Chew Tilghmann, for "Improvements in the treatment of fat substances for the manufacture of candles and soap."—2nd year.—(Public.)—Dated 8th July, 1858.

20. Peter and Johann Baptist Barrat, for "A steam-engine for agricultural purposes."—2nd year.—(Public.)—Dated 15th September, 1858.

21. Hyacinth Ozouf, for "Apparatus for converting the lime used in clarifying beetroot and cane sugar into carbonate."—2nd year.—(Public.)—Dated 22nd November, 1858.

22. Gustav Pflaumer, for "A double mill for fulling cloth and other woollen fabrics."—2nd year.—(Secret.)—Dated 27th February, 1858.

23. Laurenz Altlechner, for "Improvements in the pavement of streets."—7th year.—(Secret.)—Dated 5th July, 1853.

24. Franz Schmidt, for "So-called 'photographic-lithographic advertising boards."—6th year.—(Secret.)—Dated 10th July, 1854.

25. Carl Voelkelt, for "A damping machine connected with a steam brushing and pressing apparatus."—4th–6th year.—Dated 31st May, 1856.

26. Friedrich Paget and Eduard Schmidt, for "Improvements in lubricating boxes."—4th year.—(Secret.)—Dated 4th July, 1856.

27. Jackson Brothers, Petin, Gaudet and Co., for "A process for the manufacture of washers and unwelded wheel tyres."—4th year.—(Public.)—Dated 8th July, 1856.

28. Cornelius Fuchs, for "Improvements in carriage lanterns."—4th and 5th year.—(Secret.)—Dated 23rd July, 1856.

29. Albert Felix Chauffriat, for "Manufacture of wheel tyres, axles, rails, &c."—3rd year.—(Public.)—Dated 11th July, 1857.

30. Ignaz Bachrach, for "A double safety high pressure press."—3rd year.—(Secret.)—Dated 17th July, 1857.

31. Carl Gurtler and Johann Kruch, for an "Improved instrument for drawing off fluids from casks, without removing their bungs, into other vessels."—5th year.—(Secret.)—Dated 11th July, 1855.

32. Michael Holmann and Alexander Bernauer, for "Folding safety-baskets to be used in cleaning windows."—4th year.—(Secret.)—Dated 27th February, 1856.

33. Emil Baars and Carl Keck, for "Improvements in fire-proof iron chests."—4th and 5th years.—(Secret.)—Dated 10th July, 1856.

34. Carl von Ruppert, for "Improvements in the construction of single parts of bridges of wrought iron."—3rd–5th year.—(Public.)—Dated 25th July, 1857.

35. Julius Baron, for "Improvements in the construction of ladies' dresses, whereby they are made more convenient."—3rd year.—(Secret.)—Dated 1st December, 1857.

36. Georg Scott, for "Improvements in steam generators."—2nd year.—(Public.)—Dated 14th November, 1858.

37. Constant Jouffray Duméry, for "Filling apparatus for the prevention of smoke."—5th year.—(Public.)—Dated 26th August, 1855.

38. Victor Augustin Kientzy, for "A machine for breaking up and ploughing lands."—3rd year.—(Public.)—Dated 28th September, 1857.

39. Eduard Adolph Joseph Estivant, for "Improvements in moulds for casting metal pipes."—3rd year.—(Secret.)—Dated 1st November, 1857.

40. Carl Girardet, for "A cylindrical shaft-bearer.—2nd year.—(Public.)—Dated 15th July, 1858.

41. August Alexander Villeneuve and Camille Georg Beaury, for "Preparing a fibrous substance not used hitherto so as to become a substitute for silk and wool."—2nd year.—(Secret.)—Dated 11th August, 1858.

42. William Orrin Grover, for "Improvements in sewing machines."—2nd year.—(Public.)—Dated 23rd August, 1858.

43. William Orrin Grover and William E. Baker, for "Improvements in sewing machines."—7th year.—(Secret.)—Dated 18th November, 1853.

44. Heinrich Voelker, for "Waterproof elastic percussion caps."—6th year.—(Secret.)—Dated 5th August, 1854.

45. Leo Joseph Pomme, for "Axle-boxes with friction rollers for railway and other carriages."—5th year.—(Public.)—Dated 30th July, 1855.

46. Joseph Lacassagne and Rudolph Thiers, for "A physical apparatus called 'electro-magnetic regulators.'"—5th year.—(Public.)—Dated 26th August, 1855.

47. Jackson Brothers, Petin, Gaudet, and Co., for "A peculiar process for the manufacture of wheels, wheel tyres, hoops, pipes, carriage axles, &c."—4th year.—(Public.)—Dated 11th November, 1856.

48. Eduard Fritsch, for "Obtaining photographs on canvass of painters."—2nd and 3rd years.—(Secret.)—Dated 8th July, 1858.

49. Carl Anton Grossmann, for "Manufacture of gold chains."—2nd year.—(Secret.)—Dated 19th July, 1858.

50. Franz Leitzner, for "Improvements in the manufacture of foot-coverings."—2nd and 3rd year.—(Secret.)—Dated 30th July, 1858.

51. Wilhelm Schmid and Franz Arend, for "A harvester."—2nd year.—(Secret.)—Dated 1st August, 1858.

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3. Patents which have become Void.*

1. Samuel Colt, for "Improvements in fire-arms."—Dated 22nd April, 1857; expired 22nd April, 1859.

2. Samuel Colt, for "Improvements in powder flasks."—Dated 22nd April, 1857; expired 22nd April, 1859.

3. Johann Neubauer, for "A signal lantern."—Dated 22nd April, 1858; expired 22nd April, 1859.

4. Wenzel Czerny, for "A universal oil-gas lamp."—Dated 11th March, 1858; expired 11th March, 1859.

5. Jacob and Franz Kiffmann, for "Improvements in printing designs for embroidery by the fly-press."—Dated 29th April, 1857; expired 29th April, 1859.

6. Alfred Lenz, for "Improvements in machines for making envelopes."—Dated 22nd April, 1857; expired 22nd April, 1859.

7. Alfred Lenz, for "Improvemants in ploughs for removing the snow from railways."—Dated 22nd April, 1857; expired 22nd April, 1859.

8. Edmund Michel and F. Verdeil, for "An improved process for the manufacture of madder extract for dyeing and printing."—Dated 13th May, 1857; expired 13th May, 1859.

9. Joseph Mauritius Von Picko and Maria Theresia Kirchlehner, for "A cylindrical double printing machine for silk, woollen, cotton, and other fabrics."—Dated 24th May, 1857; expired 24th May, 1859.

10. Friedrich Rödiger, for "A process for obtaining products of wrought iron directly from pig iron and specular iron."—Dated 30th November, 1857; disclaimed 10th June, 1859.

11. Friedrich Rödiger, for "A peculiar process for refining pig iron."—Dated 3rd December, 1857; disclaimed 10th June, 1859.

12. Friedrich Rödiger, for "Obtaining printing surfaces for typographical and artistic purposes."—Dated 12th July, 1858; disclaimed 30th June, 1859.

13. Joseph Bauernfeind, for "Mechanical calculating tables for the conversion of Austrian moneys."—Dated 9th September, 1858; disclaimed 28th May, 1859.

14. Gustav Walter, for "Manufacture of double waterproof hats from all kinds of stuffs."—Dated 27th May, 1857; expired 27th May, 1859.

15. Johann Ignaz Fuchs, for "An electro-magnetic apparatus for protecting property."—Dated 2nd July, 1857; disclaimed 26th May, 1859.

16. Leopold Wimmer, for "An iron mechanical steam baking oven, to be heated from the outside."—Dated 4th May, 1858; expired 4th May, 1859.

17. Conrad Otto, for "Improvemente in shower baths."—Dated 21st May, 1857; expired 21st May, 1859.

18. Jacob Reuling, for "An apparatus for simultaneously working two card looms of any size."—Dated 28th August, 1857; disclaimed 28th June, 1859.

19. Jacob Radl, for "Manufacture of bent and open-worked wooden fancy articles, whereby a greater durability and better polish may be obtained."—Dated 20th April, 1858; expired 20th April, 1859.

20. Pius Fink, for "Improvements in the distributing regulators of steam engines."—Dated 22nd April, 1857; expired 22nd April, 1859.

21. Franz Stoppel, for "Applying metal springs to the upper parts of half boots."—Dated 30th January, 1853; expired 30th January, 1859.

22. Jean Claude Arnoux, for "A new system of jointed railway carriages for travelling on curves."—Dated 31st January, 1853; expired 31st January, 1859.

23. Franz Xaver Sinsler and Samuel Both, for "A machine for making button-rings of curtains, false corals, and rosaries of various substances."—Dated 7th January, 1854; expired 7th January, 1859.

24. Joseph Schaller and Carl Hoffmann, for "Portable cylindrical field forges."—Dated 9th January, 1854; expired 9th January, 1859.

25. Moriz Blaskopf, for "Manufacture of blacking."—Dated 19th January, 1854; expired 19th January, 1859.

36. Stephan von Marczell, for "A machine for breaking the ears of maize and other substances."—Dated 19th January, 1854; expired 19th January, 1859.

27. Anton Franz Hospodar, for "Improvements in cravats."—Dated 19th January, 1854; expired 19th January, 1859.

28. Jacob Franz Heinrich Hemberger, for "Improvements in the manufacture of oil for lighting and lubricating purposes."—Dated 24th January, 1854; expired 24th January, 1859.

29. Joseph Bauer, for "A steam digging machine for garden and earth works."—Dated 24th January, 1854; expired 24th January, 1859.

30. August Heinrich Rott, for "A so-called 'miniature horn.'"—Dated 22nd January, 1855; expired 22nd January, 1859.

31. Bartholomäus Predavalle, for "A process and machine for obtaining paper pulp from vegetable fibrous substances."—Dated 5th January, 1856; expired 5th January, 1859.

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* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

32. Adam Hügel, for "Manufacture of all kinds of tools from a composition of marl and all fusible minerals and clay."—Dated 30th January, 1856; expired 30th January, 1859.

33. Salomon Braun, for "A machine for examining the quality of corn and flour stored up."—Dated 7th January, 1856; expired 7th January, 1859.

34. Paul Firmin Didot, for "A new method of bleaching by applying carbonic gas."—Dated 30th January, 1856; expired 30th January, 1859.

35. Franz Ferko, for "A chemical means of destroying bugs." — Dated 6th January, 1857; expired 6th January, 1859.

36. Alois Eder, for "A new sofa."—Dated 10th January, 1857; expired 10th January, 1859.

37. Peter Arnhofer, for "Removing the grinding motion in machinery by applying friction cylinders."—Dated 23rd January, 1857; expired 23rd January, 1859.

38. Ludwig Amadeus Magnaghi, for "A baking oven with an alternate ventilation and new mode of bringing bread in and out."—Dated 23rd January, 1857; expired 23rd January, 1859.

39. Johann Vincenz Maria Dopter, for "Printing tissues by means of powder colours."—Dated 23rd January, 1857; expired 23rd Jrnuary, 1859.

40. Johann Vincenz Maria Dopter, for "Printing tissues by means of mordants in a powdered state, and by applying all known methods."—Dated 23rd January, 1857; expired 23rd January, 1859.

41. Johann Evangelist Hölbling, for "Obtaining economical manure from a mixture of organic and inorganic substances."—Dated 29th January, 1857; expired 29th January, 1859.

42. Eduard Zimmermann, for "Improvements in metal springs for fastening hair dresses."—Dated 31st January, 1857; expired 31st January, 1859.

43. Joseph Mohr and Sons, for "Obtaining merino yarn from a mixture of cotton and wool."—Dated 1st January, 1858; expired 1st January, 1859.

44. Christian Rahlenbeck, for "Improved incombustible mineral silicious pasteboard for covering houses."—Dated 1st January, 1858; expired 1st January, 1859.

45. Friedrich Maximilian Bode, for "A direct rotary steam engine with peculiar condensors."—Dated 2nd January, 1858; expired 2nd January, 1859.

46. Johann Rumpel, for "Obtaining seamless woollen hats and bonnets by machinery."—Dated 2nd January, 1858; expired 2nd January, 1859.

47. Franz Glembowiecky and Simon Etz, for "Improvements in double smoothing planes and double jack planes."—Dated 4th January, 1858; expired 4th January, 1859.

48. Christian Seinig, for "An apparatus for extracting the juice from beetroot and for protecting the same from discolouring."—Dated 5th January, 1858; expired 5th January, 1859.

49. Anton Luraschi, for "Hollow and grooved cushions of billiard tables."—Dated 6th January, 1858; expired 6th January, 1859.

50. Ferdinand Machts, for "Improvements in the manufacture of wooden screws, rivets, nails, and other forged articles."—Dated 7th January, 1858, expired 7th January, 1859.

51. G. Pfannkuche and C. Scheidler, for "Improvements in the manufacture of fire-proof iron chests."—Dated 7th January, 1858; expired 7th January, 1859.

52. Gustav Temesvar, for "Manufacturing waterproof boots and shoes." — Dated 7th January, 1858; expired 7th January, 1859.

53. Anton Himmelbauer and Co., for "Improvements in the manufacture of stearic acid, whereby a great saving in sulphuric acid and lime is obtained."—Dated 7th January, 1858; expired 7th January, 1859.

54. Johann Paul, for "Improvements in the construction of oil-distilling apparatus."—Dated 12th January, 1858; expired 12th January, 1859.

55. Joseph Blazek, for "A machine for splitting leather." — Dated 14th January 1858; expired 14th January, 1859.

56. Gabriel Barth, for "A system of constructing vessels whereby their sides are prevented from giving way through the pressure of heavy loads."—Dated 14th January, 1858; expired 14th January, 1859.

57. Bernhard Fischer, for "Improvements in the manufacture of convenient men's dresses."—Dated 14th January, 1858; expired 14th January, 1859.

58. The St. Georg Engine Works and Iron Foundry, at St. Gallen, Switzerland, for "A rotary machine for husking rice and rolling barley."—Dated 15th January, 1858; expired 15th January, 1859.

59. Joachim Peter Shews Harder, for "Artificial leeches."—Dated 18th January, 1858; expired 18th January, 1859.

60. Joseph Szaller, for "A new basis in the construction of pianofortes by using two iron plates."—Dated 16th January, 1858; expired 16th January, 1859.

61. Carl Hornbostel, for "Improvements in cast-iron sidings and switches of railways."—Dated 19th January, 1858; expired 19th January, 1859.

62. Johann Pack, for "Construction of so-called 'universal journal and lubricating boxes for the axles of railway carriages by using solid and fluid grease.'"—Dated 28th January, 1858; expired 28th January, 1859.

63. Peter Julius Thouret, for "A peculiar process for protecting wood and fabrics from the propagation of fire, and for preserving wood."—Dated 28th January, 1858; expired 28th January, 1859.

64. Leopold Gumbiner, for "A peculiar mashing and cooling apparatus of distilleries."—Dated 28th January, 1858; expired 28th January, 1859.

65. Veit Steiner, for "Improvements in the manufacture of wooden pegs."—Dated 28th January, 1858; expired 28th January, 1859.

66. Daniel Popper, for "Obtaining fecula from amylaceous grains through washing, and applying the gluten thereof to various technical purposes."

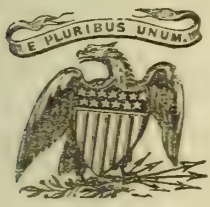
—Dated 29th January, 1858; expired 29th January, 1859.

67. Robert Hora and Anton Kopezky, for "An electro-motor applicable as a motive power." — Dated 29th January, 1858; expired 29th January, 1859.

68. Ignaz Martin Guggenberger, for "Improvements in the construction of railways for common carriages, and for using all kinds of railways for carriages with wheels without flanges."— Dated 9th March, 1857; expired 9th March, 1859.

69. Johann Littloch, for "Improvements in the manufacture of fireproof doors of chimneys."— Dated 18th June, 1858; expired 18th June, 1859.

70. Peter Strasser, for "Varnish for waterproofing white and grey summer felt hats."— Dated 1st January, 1853; expired 1st January, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 27th September, 1859, and each bearing that date.

No. 25,553. Abel Austin, of Altona, Ill., for an "Improved churn."

"I claim the arrangement of the shaft *a*, cranks *a*, a^1, a^{11}, dashers D, E, E, handles D^1, *e*, *e*, links *b*, *b*, *b*, springs *c*, *c*, *c*, box *i*, *i*, spring *g*, and lid F, F^1, together, the same being connected, combined, and constructed substantially as and for the purpose specified."

No. 25,554. Wm. B. Barnard and Edmund Jordan, of Waterbury, Conn., for an "Improved rotary blower."

"We claim the diaphragm *l*, in combination with the revolving propeller or propellers *k*, to deflect the blast to the mouth or opening *f* as the blower revolves in the case *e*, substantially as set forth."

No. 25,555. Elbridge G. Belknap, of Philadelphia, Pa., for an "Improved camp stool."

"I claim the combination of the case and seat frame with the swivel blocks, braces, and connecting rod, the whole being arranged substantially in the manner herein specified and described."

No. 25,556. Lewis Reese Carpenter, of Lancaster, O., for an "Improvement in seed planters."

"I claim the arrangement of the beam A, handles C, C, braces D, D, furrowing scraper E, and seed box F, with the planting slide H, lever N, wheel S, and covering scrapers L, I, the whole being constructed for joint operation as described, for the purpose set forth."

No. 25,557. Edwin S. Collins and Thos. N. Reed, of Aspen Wall, Va., for an "Improvement in machine for preparing tobacco for pressing."

"We claim the arrangement of two, three, or more pairs of progressive pressure rollers with each other, substantially in the manner and for the purpose herein set forth. We also claim combining a series of oil vessels and oiling pads with the aforesaid pairs of pressures rollers, substantially in the manner herein set forth."

No. 25,558. John Critcherson and Eri S. Moulton, of Boston, Mass., for an "Improvement in machines for splitting welts."

"We claim the beveled grooves *n* and *x*, constructed and arranged in reference to each other on the cylinder C and D, and operating in combination with the adjustable cutter H, substantially as set forth and for the purposes described."

No. 25,559. Tobias Crumbling, of Hellam, Pa., for an "Improvement in harvesters."

"I claim the arrangement and combination, as herein shown and described, of the independent platform K with the frame L^1, belt M^1, and driving axle C, for the purpose set forth."

No. 25,560. Geo. S. Curtis, of Chicago, Ill., for an "Improvement in reels for harvesters."

"I claim the employment of sliding heads B, and pivoted arms C, and bars E, in combination with the reel shaft A and beaters D, substantially as herein shown and described, so that the diameter of the reel can be expanded or contracted, as and for the purpose set forth."

No. 25,561. Jacob D. Custer, of Norristown, Pa., for an "Improvement in harvesters."

"I claim, first, the main shoe A, A, A, constructed in the manner described, in combination with the bars J, J, of main frame and supporting bar T, arranged and operating in the manner described, for the purpose set forth. Second, the caster wheel L, in combination with lever M and adjustable plate N, when the parts are constructed, arranged, and operated in the manner described, for the purpose specified, substantially as set forth."

No. 25,562. J. S. Davison, of Cranberry, N. J., for an "Improved telegraphic cable."

"I claim arranging a series of loose metal strips *a* in a coil A, or its equivalent, substantially as and for the purpose described."

No. 25,563. Eben Eaton, of Cincinnati, O., for an "Improved bedstead."

"I claim the construction of bed posts with the wedge-formed part and the square piece attached, so as to form a shoulder to receive the rail, in combination with the bottom or platform of a bedstead, with the rails formed so as to fit the posts above described, and all permanently connected together by means of cross pieces, substantially as specified."

No. 25,564. G. D. Foote, of Danbury, Conn., for an "Improvement in the mode of coloring woolen hats."

"I claim the within-described process of restoring the color of the hats after they have been dipped in the stiffening and rubbed off with sand paper, by applying the hot dying liquid, substantially in the manner herein specified."

No. 25,565. John Fritz and Geo. Fritz, of Johnstown, Pa., for an "Improvement in rolling mills."

"We claim the application to each of the pairs of drawing or forming rolls of a feed roll, such as described, and driven by gearing or other machinery, and turning in the same direction with said drawing or forming rolls, for the purpose of carrying and feeding into them the pile or bar of heavy iron, substantially as described."

No. 25,566. Harvey Guild, of New Orleans, La., for an "Improvement in apparatus for washing gas."

"I claim the arrangement of the water pipe G, and rose H, within the inlet pipe of the wash box A, in combination with the perforated plate or diaphragm F, at the junction of the inlet pipe with the wash box, substantially as herein described."

No. 25,567. Noah E. Hale, of Nashua, N. H., for an "Improved belt-hook, pliers, and punch."

"I claim, first, the combination of the roughened surfaces O and H, with the triangular wedge end G, arranged in relation to each other, substantially as and for the purposes set forth. Second, the combination of the jaws E, F, with the punch J, roughened surfaces O, H, and wedge end G, the whole being constructed and arranged as and for the purposes set forth."

No. 25,568. John Howarth, of Salem, Mass., for an "Improvement in method of distilling oil from coal."

"I claim forming oleaginous vapors from coal or other substances yielding pyrogenous oil, by passing through the material to be acted upon a current of superheated steam, in combination with steam direct from the boiler, substantially in the manner and for the purposes set forth. I also claim forming oleaginous vapors from coal or other substances yielding pyrogenous oils, by passing through the material to be acted upon, air combined with superheated steam, substantially in the manner and for the purposes set forth."

No. 25,569. Tyler Howe, of Cambridgeport, Mass., for an "Improved bedstead slats."

"I claim the within-described bed slat, consisting essentially of the lifter A, in combination with the slat, constructed and operating in the manner substantially as herein set forth. Also, the construction in the ends of the slats by which they are connected with the bedstead or springs, as shown by C and D, and as herein described."

No. 25,570. Edwd. C. Knight, of Philadelphia, Pa., for an "Improved mode of arranging couches in railroad cars."

"I claim, 1st, the arrangement of couches in railroad cars by means of the double-hinged rod C, C, constructed as described, in such a manner that the couch when not in use may be folded up against the ceiling, and retained there by means of a button or suitable device, substantially as herein described."

No. 25,571. W. Kuhlenschmidt, of New York, N. Y., for an "Improved screw wrench."

"I claim the arrangement and combination of the conical disk E with the helical groove *c*, the spring *d*, the movable jaw C, and the shank B, to operate substantially as and for the purpose set forth."

No. 25,572. James Allen Lowe, of New York, N. Y., for an "Improvement in moulding water traps."

"I claim the application of a metallic core, constructed and operating substantially as herein described, to cast water traps."

No. 25,573. James L. Meafoy, of Middletown, N. Y., for an "Improvement in cooking stoves."

"I claim the cylindrical fire chamber F, air chamber G, communicating with the fire chamber and the heater chamber I, when combined and arranged relatively with each other and the oven B, for the purpose set forth. I also claim, in combination with the fire chamber F, air chamber G, and heater chamber I, arranged as shown, the perforatedplate K, placed in the flue C, relatively with the fire chamber, for the purpose set forth."

No. 25,574. Z. N. Morrel, of Cameron, Texas, for an "Improvement in machines for distributing fertilizers."

"I claim the combined arrangement of the single side wheel D, distributing wheel C, regulating slide I, revolving arms L, boot K, set screws J, shares *d*, *d*, cog wheels E^1, E^2, draft rod S, sprocket wheels F^1, F^2, roller H, and chain G, in the manner and for the purposes set forth."

No. 25,575. Geo. M. Mowbray, of Green Point, N.Y., for an "Improvement in process of distilling oils from coal."

"In the manufacture of coal, oil, and other pyrogenous oils, by exposing the coal or other materials to the products of combustion generated in a separate furnace, I claim igniting said products of combustion previous to admitting the same into the distilling kiln, by admixture of a sufficient proportion of air, to burn the oxide of carbon into carbonic acid, substantially as described, and for the purposes set forth."

No. 25,576. Geo. Munger, of New Haven, Conn., for a "Writing tablet."

"I claim a new article of manufacture, to wit, an argillaceous surfaced wood writing slate, which is formed by uniting several layers of veneering or thin wood together, so that their grains run antagonistic to one another, and then coating the exterior surfaces of the compact mass with a composition of slate, emery, or other similar argillaceous material, substantially as and for the purposes set forth."

No. 25,577. S. D. Newbro, of Lansing, Mich., for an "Improved bed spring."

"I claim the employment of the oblong plates *a*, *a*, *a*, whether made of wood or of metal, or any other suitable material, when the same are secured together, substantially as and for the purpose set forth."

No. 25,578. Rufus Nutting, of Randolph, Vt., for an "Improved manufacture of wire cloth."

"I claim compressing wire-cloth, by passing it between rollers suitably constructed, or by equivalent means, whereby its surfaces are rendered smooth and even, in the manner and for the purposes substantially as specified."

No. 25,579. Oscar Paddock, of Watertown, N.Y., for an "Improvement in stoves."

"I claim the damper *c* arranged over the pipe *b*, through which a direct communication between the fire-place and the chimney is effected and operated by means of a rod *k*, or its equivalent, which is secured to the door B, and which acts against a forked lever *g*, substantially as and for the purpose specified."

No. 25,580. Andrew Patterson, of Birmingham, Pa., for an "Improvement in manufacture of hoes."

"I claim the improvement in the manufacture of hoes, herein substantially described, viz., forming the head or eye of a hoe, and attaching it to the blade at the same time, by pouring the molten metal to form the head, on or around the blade, substantially as described and set forth."

No. 25,581. Edward L. Perkins, of Roxbury, Mass., for an "Improved construction of packing boxes."

"I claim, first, forming the sides, ends, bottom, and top of the box with, or attaching thereto, the right angular-shaped braces, or shoulders *g*, *g*, &c. formed with beveled corners, so as to make a close and binding joint, as described. Second, in combination with the above, I claim the cover formed in two wedge-shaped pieces, or in any manner substantially similar, whereby all the parts constituting the box are drawn and held rigidly together, as set forth."

No. 25,582. Jane Phillips, of New York, N. Y., for an "Improvement in muffs."

"I claim a muff A, arranged with a cut *b* in its outside covering or shell, an annular space or pocket *a*, and a portmonnaie D, secured in its inner part, the whole constructed in the manner and for the purpose specified."

No. 25,583. Joseph F. Pond, of Cleveland, O., for an "Improvement in the hoops of skeleton skirts."

"I claim the combination of the eye *e* on one extremity of the hoop, with the series of set offs *a*, on the other, constructed and operated, substantially as and for the purposes set forth."

No. 25,584. C. W. Pyle, of Galveston, Texas, for an "Improvement in securing iron bands on cotton bales."

"I claim a plate, constructed with a short open slot, a long closed slot, and a turned-down lip, or flange, substantially as described, and for the purposes set forth."

No. 25,585. Cornelius J. Rooney and David Renshaw, of New York, N.Y., for an "Improved spring hinge."

"We claim the arrangement of the coiled spring E shaft C, and wings A and B, in combination with each other as described, for the purposes stated, when the parts are constructed, substantially as herein set forth."

No. 25,586. Abbott Q. Ross, of Cincinnati, O., for an "Improvement in burglar's alarm."

"I claim connecting the doors or windows of a house to an alarm mechanism, through a system of strained wires, so that the forcing of a door, or the cutting of any wire, shall let off the alarm mechanism, substantially in the manner described. I also claim so connecting the panels of a door with the strained wires that unite the door with the alarm mechanism, as that the cutting out of a panel, or the cutting of one of their wires shall let off the alarm mechanism, substantially as herein described. I also claim the combination of the swinging lever *t* on the door with the bolt *r*, and its inclined plane S that locks the spring drum J, for the purpose of putting said door in connection with the alarm mechanism, when said door is drawn to and shut from the outside, substantially as herein described and represented."

No. 25,587. John Rouse, of Port Gibson, N.Y., for an "Improvement in horses' harness."

"I claim the double-eyed hook D, arranged as described in the yoke ring C, so as not to be withdrawn therefrom, in combination with said ring, and with the divided hame straps E, E^1, which are respectively secured to the opposite eyes of the hook, for the purposes herein specified."

No. 25,588. John Sparrow, of Portland, Me., for an "Improved steam-punching machine."

"I claim the employment, for the purposes specified, of a single-acting cylinder and piston, operated by the pressure of steam water, or other fluid, and a toggle, combined with and arranged and applied relatively to each other, and the punch or cutter, substantially as herein described."

No. 25,589. Peter M. Statzell, of Philadelphia, Pa., for an "Improved method of operating independent second hands of stop watches."

"I claim, first, the independent seconds' hand M, adapted to a watch, substantially in the manner herein set forth, so that by means of the devices herein described, or their equivalents, the said hand may be connected to, or disconnected from the time train of the watch, without interfering with the movements of the latter, for the purpose specified. Second, the stop arm N, with its forked end so adapted to the hollow arbor L, as to serve the purpose of stopping and releasing the said arbor, and at the same time serving to maintain it in its proper vertical position. Third, the wheel P, with the springs *f*, *f*, in combination with the hollow arbor L, of the independent seconds' hand, the wheel being hung loosely to, and the springs bearing against the said arbor, as and for the purpose set forth."

No. 25,590. Wm. S. Stetson, of Baltimore, Md., for a "Safety envelope."

"I claim the mode of giving security to letter and other envelopes, substantially as herein-before set forth, the same consisting in waterproofing that part of the envelope upon which the adhesive material is applied."

No. 25,591. John Stevens and John Johnson, of New York, N.Y., for "Improvements in construction of gas-burners."

"We claim the apertures B, B^1, in combination with the movable slide C, or its equivalent, substantially as herein described, whereby the area of the passage for the gas or vapor is contracted at pleasure, at the point of its exit into the atmosphere, and the volume of the flame is diminished, without substsntially changing its character. We also claim the arrangement of the branches B, B^1, diverging from a single pipe A, and pressing by their elasticity against the opposite side of the slide C, for the purposes herein explained."

No. 25,592. J. C. Stoddard, of Worcester, Mass., for an "Improved chamber utensil."

"I claim a chamber vessel, provided with a flange (*a*), (*c*), and elastic ring (*b*), made as herein shown and described, so as to form a tight joint, and also to prevent noise, as set forth."

No. 25,593. Joseph N. Treadwell, of Redding, Conn., for an "Improvement in machines for scouring and hulling buckwheat."

"I claim, the arrangement of the revolving and graduated screens, with the hoppers, conveyors, blasts, and conductors, in the manner and for the purpose herein described."

No. 25,594. Richard Ward, of Edinburg, Ind., for an "Improvement in smut machines."

"I claim the employment of the corrugated iron plate (C), having the horseshoe perforations (*c*), in combination with the iron plate (D), having the diamond perforations (*b*), in the construction of a perforated scouring and separating cylinder (B), all being arranged to operate substantially as and for the purposes set forth."

No. 25,595. S. J. Wasterbarg, of Altona, Ill., for an "Improvement in seed planters."

"I claim the arrangement of the block A, provided with chambers (C), and chambers (B), with the rods (D), shaft *a*, handle F, hopper H, spring I, slides (E), and spring (G), substantially in the manner and for the purpose herein set forth."

No. 25,596. C. L. Whitney and Samuel Reed, of Geneseo, Ill., for an "Improvement in stoves."

"We claim the arrangement of deflecting plate F, chamber C, graduating damper J, and flue pipes H, H, in the four corners of the oven, all in combination for the purposes herein set forth; and 2nd, in combination with this, we claim the use of pipes of clay or other similar material, when the same are arranged in the manner and for the purposes above specified."

No. 25,597. A. B. Weaver, of Carthage, Ind,, for an "Improved abdominal supporter."

"I claim the employment of the hip pads F, F, and center hip straps *i*, *i*, in combination with the straps A, A^1, arranged substantially as described, for the purposes set forth."

No. 22,598. Zatter F. Wilder, of Painted Post, N.Y., for an "Improvement in method of raising water by animal power."

"I claim the arrangement of a series of platforms, in combination with a pump, so that a series or a succession of strokes of the pump piston shall be produced before the cattle arrive at the drinking trough, substantially as and for the purposes herein set forth."

No. 25,599. Reuben Wood, of Grand Ledge, Mich., for an "Improved hand punch."

"I claim, first, the peculiar relative arrangement of the two series of inclined planes on the contact faces of the circular plates C^1, C^2, C^3, to be used either with or without interposed balls or rollers, in the manner and for the purposes substantially as specified. Second, I claim the use of the slotted tube I, in combination with the two inclined ways P, P, and cross bar J, (with or without the rollers R, R,) constructed and arranged, substantially as herein described, for the purpose of extricating and lifting a punch or other tool, in the bar E, by a reversed motion of the lever."

No. 25,600. John Wilson, of Anderson, C. H., So. Ca., for an "Improvement in cotton gins."

"I claim, 1st, the employment or use of three or more toothed or serrated cylinders D, arranged and disposed so as to operate substantially as and for the purpose set forth. 2nd, in connection with the cylinders D, thus arranged and disposed, the rotating stripping brushes M, and adjustable plug or register P, to ensure respectively the proper discharge of the lint and the seed."

No. 25,601. Henry W. Wimshurst, of Dalston, England, for an "Improved manufacture of sheet metal."

"I claim the improvement herein described in the manufacture or production of the sheet metal or metal foil, as an article of manufacture and trade by cutting the same from a block or solid mass by means of a cutting mechanism, in lieu of rolling or beating the same by means of a rolling or beating mechanism, as this has heretofore been done."

No. 25,602. O. D. Barrett, of Clevelend, O., assignor to himself and J. F. Keeler, of same place, for an "Improved door spring."

"I claim the levers D and E in combination with the connecting rod F and the springs H, H, constructed and operated as specified."

No. 25,603. James Decker, of Reidsville, Geo., assignor to himself and A. P. McRae, of same place, for an "Improved stave machine."

"I claim the combination and arrangement of the convex and concave cutters *a*, *f*, bed piece C, tonguing and grooving

cutters in the heads L, L¹, and the cam H, attached to the pressure hub or roller G, and lever N, connected with said cam, and the shaft K¹ of cutter head L¹, substantially as and for the purpose set forth."

No. 25,604. Francis Dixon, of Lynn, Mass., assignor to himself and Moses Sweetser, of Newbury Port, Mass., for an "Improvement in the manufacture of cigar wrappers."

"I claim a new article of manufacture for the special purpose as above set forth, the same consisting of tobacco leaf reduced to pulp, and subsequently converted into sheets, or other desirable form suitable for use, or in the making of cigar wrappers, as explained.

No. 25,605. Luther Hall, of Boston, Mass., assignor to himself and S. S. Hemenway, of same place, for "A machine for shaping heels for boots and shoes."

"I claim the combination of the stationary bed plate A the movable cutter carriage D (provided with self-adjusting cutters O, P, and carriers I, K,) adjustable clamps S, T, a guide friction wheel N, and a curved rack and pinion, the whole being arranged and made to operate together substantially in manner for the purpose set forth. I also claim combining with the adjustable clamps S, T, (constructed as herein-before described) an adjustable holder and former Y, so constructed and arranged as not only to co-operate with the clamp in maintaining the heel of the boot or shoe firmly in position, but to serve as a pattern to give to the heel any desirable contour on its bearing surface. I also claim the peculiar construction of the secondary cutter carrier herein set forth, and the arrangement of the secondary cutter with respect to the primary cutter, the guide friction wheel, and the heel tread former Y, whereby the secondary cutter is rendered capable of giving to the lower or bearing surface of the heel any form that may be desired."

No. 25,606. John Keane, of New York, N. Y., assignor to himself and Andrew McLean Wood, of same place, for an "Improvement in bungs of casks."

"I claim providing a bung or spigot with reservoir for spirit, and a system of pipes or passages *a*, *b*, or their equivalent, so arranged as to cause all the air entering the cask to pass through the spirit in said reservoir, substantially as and for the purpose specified. And in combination with such a reservoir and system of pipes and passages, or their equivalents, I claim a valve *c*, applied to the bung or spigot, substantially as and for the purpose herein specified."

No. 25,607. James McFarlan, of Brooklyn, N.Y., assignor to James McFarlan, jr., and E. McFarlan, of same place, for an "Improved portable gas holder."

"I claim the construction of the gasometer with its upper portion B, C, of conical form, with flexible sides and with a stiff head, and of such size that it may be introverted, substantially as herein described, within the stationary tank-like portion A, to which its flexible sides are attached."

No. 25,608. Jefferson Nash, of Janesville, Wis., assignor to himself and Alonzo K. Cutts, of Fulton, Wis., for an "Improvement in grain separators."

"I claim the arrangement and combination of the vibrating lever E, the elbow crank *f*, and the rods *e* and *h*, whereby the motion of the shoe can be changed from a longitudinal to a transverse direction, and vice versa, substantially as herein described."

No. 25,609. August Schmidt, of New York, N.Y., assignor to himself, Charles Schmidt, Edward Schmidt, and Herman Schmidt, of same place, for an "Improvement in apparatus for making gas from wood."

"I claim the arrangement of the arched shaped retort *a*, and narrow flues (*g*, *g*¹, &c..) within the arch of the retort in the manner and for the purposes substantially as specified."

No. 25,610. August Schmidt, of New York, N.Y., assignor to himself, Charles Schmidt, Edward Schmidt, and Herman Schmidt, of same place, for an "Improvement in apparatus for making gas from rosin."

"I claim the retorts *c*, and its flues *e*, *e*, combined with the receptacle or kettle *g*, and arranged in the manner and for the purposes specified."

No. 25,611. Geo. Hand Smith, of Rochester, N.Y., assignor to Silas O. Smith, of same place, for an "Improved apparatus for the production of Hare's hydro-oxygen light."

"I claim, I, the use of carburetted hydrogen gas in combination with atmospheric air, or oxygen gas, in proportions desired, operating under condensation, through a proper regulator, and discharging through jets of minute orifice, upon and rendering incandescent any proper radiating material of any form, being independent of any atmospheric circumstances or situation in the manner and through the means and machinery, substantially as herein-before described. II. The arrangement of four jets or burners for directing the impact of gases on incandescent surfaces; such burners having minute orifices of discharge shall be within or nearly within one quarter of the circumference of a circle drawn through them from the center, to which they point (being not more than one-eighth of such circumference distant from each other,) and the orifice of the fourth, being diametrically opposite in such circle to the middle orifice of the other, thus substantially as before described."

Re-issues.

Elliot Savage, of Berlin, Conn., assignor to himself and Chas. Parker, of Meriden, Conn., for an "Improvement in machine for threading screw blanks."—Patented 21st November, 1854.—Re-issued 27th September, 1859.

"I claim the method herein described of causing the chasing tool to act upon the screw blank in producing both the cylindrical part and the tapering point, that is to say, by so governing the relative positions of each to the other, that while threading the cylindrical portion the chasing tool shall be presented at a right angle to the axis of rotation of the blank, and while cutting the tapering part, shall be so inclined acutely to said axis that the line of travel of the face of the chaser shall finally intersect said axis, substantially as set forth."

Elliot Savage, of Berlin, Conn., assignor to himself and Chas. Parker, of Meriden, Conn., for an "Improvement in machines for threading screw blanks."—Patented 21st November, 1854.—Re-issued 27th September, 1859.

"I claim as an improved article of manufacture, a wood screw of which the entering end is made to taper in the manner and for the purposes substantially as set forth, that is to say, by giving to the core thereof a form bounded in any plane which passes through the axis of rotation, by lines which converge toward, and if produced will intersect said axis, in contra-distinction to the known form wherein the bounding lines in such planes are parallel to said axis."

Joshua Regester, Wm. Geo. Webb, John L. Roche and John McCart, of Baltimore, Md., assignees of John Culver, of same place, for an "Improved waste device for hydrants."—Patented 22nd April, 1856.—Re-issued 27th September, 1859.

"We claim, the described arrangement of the plunger relative to the discharge pipe, and capable of elevation, proportional to the capacity of said pipe, by forming a chamber in the lower portion of the hydrant for the reception of the contents of the discharge pipe. Also in combination, the arrangement of the valve C, by means for operating it by the spring H, substantially as and for the purposes specified."

Jos. W. Bartlett, of New York, N. Y., assignee of O. L. Reynolds, of Dover, N. H., for an "Improvement in sewing machines."—Patented 14th May, 1850.—Re-issued 27th September, 1859.

"I claim, first, the employment and use, in a sewing or tamboring machine, of a needle or thread carrier, having a

movable or flexible beard or hook, and also the combination with said needle or thread carrier of a mechanism for closing the beard thereof. Second, the combination with a bearded instrument, used as before described, of the thread guide V, having the motions described, such as shall carry the thread across the path of the bearded instrument and present it to the action thereof without carrying the thread around the shank of the said bearded instrument, in the manner set forth and described. Third, the combination of the cam G, lever O, and guide V, with a spring, whereby the thread is presented to the action of the bearded instrument, as set forth."

SAMUEL MORRILL, of Andover, N. H., for an "Improvement in clothes dryers."—Patented 14th November, 1856.—Re-issued 27th September, 1859.

"I claim, first, tilting the reel to the desired position to enable a person to place the clothes on the lines without high reaching, and elevate them in good position to dry, and out of the way of injury, substantially as set forth. Second, arranging and combining with a rotary tilting reel the ratchet G and a pawl H (or their equivalents), for preventing backward rotary motion of the reel as the clothes are placed on the lines and moved along, substantially as set forth. Third, operating the reel by the combined action of the arm C, jointed arm or lever E, and loop or staple F, or its equivalent, substantially as set forth and for the purpose specified."

EPHRAIM BALL, of Canton, Ohio, assignor to Ball and Butler, and BALL and BUTLER, assignors to Ephraim Ball aforesaid, for an "Improvement in mowing machines."—Patented 1st December, 1857.—Re-issued 27th September, 1859.

"I claim, first, I claim the combination of the short curved armed R, with the bar Q, and finger bar P, the whole constructed and arranged for joint operation substantially as and for the purposes above set forth. Second, I claim the combination of the coupling arm with bar Q, wrist *f*, socket *h*, hinge *g*, and short finger beam P, substantially as and for the purposes set forth. Third, I claim extending the coupling arm R outside of the frame, in combination with the front hinges of bar Q, also outside of the main frame, when the parts are constructed and arranged in the manner substantially as described, whereby greater freedom of the movement of the cutting apparatus is secured."

EPHRAIM BALL, of Canton, Ohio, assignor to Ball and Butler, and BALL and BUTLER, assignors to Ephraim Ball aforesaid, for an "Improvement in mowing machines."—Patented 1st December, 1857.—Re-issued 27th September, 1859.

"I claim the combination of the independent driving wheel B^1 at the grain side of the machine, with the hinged bar Q, to which the short finger beam is rigidly attached, and the hinged coupling arm, whereby the cutting apparatus may rise and fall freely, and the cutters be kept in operation while turning to the left upon uneven ground, substantially as described."

DESIGNS.

SOLOMON B. ELLITHORP, of New York, N.Y., for a "Design for the frame of a sewing machine."

"I claim the design for a sewing machine illustrated and shown in the accompanying drawing."

B. M. JOHNSON, of New York, N.Y., for a "Design for gas-cocks, &c."

"I claim the use of the devices herein-before described, as adapted and used for ornamenting cocks, couplings, brackets, and other parts of gas-fixtures and chandeliers, as set forth."

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B. Woodcroft.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

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No. 604. TUESDAY, OCTOBER 18, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1368. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in reducing solid substances to powder, and in the machinery or apparatus employed therein."—A communication from abroad by William James Cantelo, of Burlington, Burlington county, state of New Jersey.

As set forth in his petition, recorded in the said office on the 3rd day of June, 1859.

1383. And JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, has given the like notice in respect of the invention of "Improved machinery for forming bats of fleece or sheet silver, and also for folding cloth and other fabrics."

As set forth in his petition, recorded in the said office on the 6th day of June, 1859.

1386. And KENNETH HENRY CORNISH, of 5, Essex Court, Middle Temple, Surgeon, M.R.C.S., F.M.S., has given the like notice in respect of the invention of "Improvements in bedsteads, sofas, couches, and chairs, applicable to other seats or reclining surfaces."

As set forth in his petition, recorded in the said office on the 7th day of June, 1859.

1408. And GEORGE JAMES FARMER, of Hampton Street, Birmingham, in the county of Warwick, Machinist, and GEORGE BRIGGS HARDY, of Alexander Place, Brompton, in the county of Middlesex, Chemist, have given the like notice in respect of the invention of "Improvements in stair rods and eyes or sockets which are also applicable for other purposes."

As set forth in their petition, recorded in the said office on the 10th day of June, 1859.

1416. And FRANCIS PALLING, of Esher Street, Lambeth, county of Surrey, Clerk, has given the like notice in respect of the invention of "Improvements in the construction of lamps for the purpose of burning tallow, grease, or oils, either singly or in combination."

1417. And THOMAS FREDERICK HENLEY, of Denbigh Street, Pimlico, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in obtaining alcohol or spirit from rice and other grain, and in apparatus for that purpose."

1421. And GEORGE CLAUDIUS ASH, of West View, Hampstead, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of artificial teeth."

As set forth in their respective petitions, all recorded in the said office on the 11th day of June, 1859.

1422. And BENJAMIN BAUGH, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in apparatus or machinery for raising metals."

1425. And ARTHUR SMITH, of 4, Stafford Terrace, Loughborough Road, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in bleaching and purifying bees' wax."

As set forth in their respective petitions, both recorded in the said office on the 13th day of June, 1859.

1432. And JOHN DIXON, of Bishopwearmouth, in the county of Durham, Engineer, has given the like notice in respect of the invention of "Improvements in puddling steel."

1435. And ALEXANDER MACDONALD, of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Certain improvements in machinery or apparatus for punching patterns or devices upon metallic printing rollers or cylinders."
As set forth in their respective petitions, both recorded in the said office on the 14th day of June, 1859.

1441.. And EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "An improved night lamp clock." — A communication from abroad by Louis Montanari, of Lyons, in the empire of France.

1446. And NICHOLAS CHARLES SZERELMEY, of No. 6, Park Terrace, Brixton Road, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in preparing combinations of materials for preventing rust in iron and other metals, and decay in timber."

1447. And CHARLES HENRY WARING, of Neath Abbey, in the county of Glamorgan, Mining Engineer, has given the like notice in respect of the invention of "Improvements in safety lamps."
As set forth in their respective petitions, all recorded in the said office on the 16th day of June, 1859.

1458. And HENRI EVETTE, of Lisieux, department of the Calvados, in the empire of France, Manufacturer, has given the like notice in respect of the invention of "A new system of bedding."

1466. And JOHN COMBE, of Leeds, in the county of York, Engineer, and ROBERT SMALPAGE, of the same place, Woollen Draper, have given the like notice in respect of the invention of "Improvements in winding and spinning machinery, and in arranging and securing a uniform delivery from cops, to be used as weft or warp, or for other purposes."
As set forth in their respective petitions, both recorded in the said office on the 17th day of June, 1859.

1479. And JOHN COX, Saddlers'-Ironmonger, of Birmingham, in the county of Warwick, and SAMUEL FRANKHAM and MOSES FRANKHAM, Bit, Stirrup, and Spur Manufacturers, of Walsall, in the county of Stafford, have given the like notice in respect of the invention of "Certain improvements in spurs for military and general use."
As set forth in their petition, recorded in the said office on the 20th day of June, 1859.

1495. And WILLIAM COLES FULLER, of No. 2, Bucklersbury, Cheapside, London, Patent Spring Manufacturer, has given the like notice in respect of the invention of "Improvements in india-rubber shackles, and in springs for carriages, and the metal fittings connected therewith."
As set forth in his petition, recorded in the said office on the 21st day of June, 1859.

1510. And ALEXIS JEAN DESSALES, of No. 13, Rue des Enfans Rouges, Paris, in the empire of France, has given the like notice in respect of the invention of "An improvement in the working and securing of sliding tubes applicable to gas chandeliers, lamps, and other purposes."
As set forth in his petition, recorded in the said office on the 23rd day of June, 1859.

1518. And AUGUSTE CHESNEAU, of 29, Boulevart St. Martin, Paris, in the empire of France, Merchant, has given the like notice in respect of the invention of "Improvements in paddle wheels."
As set forth in his petition, recorded in the said office on the 24th day of June, 1859.

1537. And THOMAS LEIGH, of St. Mary Cray, in the county of Kent, Millwright and JOB LINE, of the same place, Paper Maker, have given the like notice in respect of the invention of "An improvement in paper-making machinery."
As set forth in their petition, recorded in the said office on the 27th day of June, 1859.

1548. And ISAAC TIREBUCK, of Windsor Court, in the city of London, Printer, has given the like notice in respect of the invention of "Improved machinery for printing from engraved plates."
As set forth in his petition, recorded in the said office on the 29th day of June, 1859.

1555. And RICHARD KAY, Cotton Spinner, JOHN MANOCK, Manager, JOHN WHITTAKER, Mechanic, and THOMAS BOOTH, Operative Cotton Spinner, all of Heywood, in the county of Lancaster, have given the like notice in respect of the invention of "Improvements in machinery for slubbing, roving, spinning, and doubling cotton and other fibrous materials."
As set forth in their petition, recorded in the said office on the 30th day of June, 1859.

1621. And WILLIAM WAITE, of York House, No. 48, Baker Street, Portman Square, in the county of Middlesex, has given the like notice in respect of the invention of "Manufacturing bonnets, hats, and other articles, partly or entirely from the leaves of the palm tree or other flat or thin material."
As set forth in his petition, recorded in the said office on the 8th day of July, 1859.

1699. And FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in extracting oils from coal and other minerals."—A communication from abroad by David Alter and Samuel A. Hill, of Pitsburgh, in the United States of North America.
As set forth in his petition, recorded in the said office on the 19th day of July, 1859.

1756. And PATRICK ROBERTSON, of Sun Court, Cornhill, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of beer, ale, porter, and spirits.
As set forth in his petition, recorded in the said office on the 28th day of July, 1859.

1842. And FREDERIC LOUIS LAWRENCE, of 50, Berners Street, Oxford Street, in the county of Middlesex, Dentist, has given the like notice in respect of the invention of "Improvements in

coloring and hardening elastic gums for dental purposes."

As set forth in his petition, recorded in the said office on the 9th day of August, 1859.

1970. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings."—A communication from abroad by Joseph Harrison the younger, of the city of Philadelphia, in the state of Pennsylvania, in the United States of America, Engineer.

As set forth in his petition, recorded in the said office on the 30th day of August, 1859.

2022. And FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of caustic alkalies."—A communication from abroad by Henry Pemberton, of East Tarentum, U.S., North America.

As set forth in his petition, recorded in the said office on the 5th day of September, 1859.

2034. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved fabric applicable to the manufacture of hose or flexible pipes."—A communication from abroad by Nehemiah Hunt, of Boston, in the United States of America.

As set forth in his petition, recorded in the said office on the 6th day of September, 1859.

2086. And ERNEST AUGUSTE FREDERIC LEBOURGEOIS, of Suresnes, France, Mechanician, has given the like notice in respect of the invention of "An improved machine for providing with pin points the blocks employed for surface printing on calico, paper, or other similar materials."

As set forth in his petition, recorded in the said office on the 13th day of September, 1859.

2104. And JOHN PRETTY CLARKE, of King Street Mills, Leicester, has given the like notice in respect of the invention of "Improvements in the manufacture of spools or reels for the winding on of cotton, linen, thread, silk, or other fibrous materials."

As set forth in his petition, recorded in the said office on the 15th day of September, 1859.

2126. And JOHN HAWKINS, of Lisle Street, London, in the county of Middlesex, and of Walsall, in the county of Stafford, Bit, Spur, and Stirrup Manufacturer, and CHARLES HAWKINS, of Walsall aforesaid, Manager of the Works of the said John Hawkins, have given the like notice in respect of the invention of "Certain improvements in fly presses to be worked by steam, water, or other power."

As set forth in their petition, recorded in the said office on the 19th day of September, 1859.

2157. And JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the city of London, has given the like notice in respect of the invention of "Improvements in purifying sewage and other impure waters, and in separating therefrom materials suitable for use as manure, and also the preparation of a substance to be employed for such purposes."

As set forth in his petition, recorded in the said office on the 22nd day of September, 1859.

2201. And DAVID STEWART, of Newcastle-on-Tyne, in the county of Northumberland, and of Bombay, in the East Indies, Engineer, has given the like notice in respect of the invention of "Improvements in presses used for pressing goods."

As set forth in his petition, recorded in the said office on the 28th day of September, 1859.

2211. And JAMES WADSWORTH, of Manchester, in the county of Lancaster, Gas Engineer, has given the like notice in respect of the invention of "Improvements in instruments or apparatus for measuring the quantity, for regulating the pressure, and for controlling the flow or passage of gas used for purposes of illumination, and in the construction of gas burners."

2215. To THOMAS BUCKHAM, of Gloucester, in the county of Gloucester, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the switches for railways."

2221. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in the construction of apparatus for reworking the waste steam of steam engines."—A communication from abroad by Messrs. Delafol and Company, of Paris, Manufacturers.

As set forth in their respective petitions, all recorded in the said office on the 30th day of September, 1859.

2233. And GEORGE BRIDGETT, of Pilcher Gate, in the town and county of the town of Nottingham, Lace Manufacturer, has given the like notice in respect of the invention of "A new mode or method of manufacturing Shetland or other falls from the stocking frame."

As set forth in his petition, recorded in the said office on the 1st day of October, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 15th October*, 1859, *inclusive.*)

13th October.

2403. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "An improved method of and composition for splitting or rending rock, stone, and earth."—A communication from Messieurs Murtineddu and Company, of Marseilles.—Dated 14th October, 1856.

14th October.

2467. George Blair, of Leicester, Machinist, for an invention of "Improvements in the manufacture of looped fabrics."—Dated 21st October, 1856.

15th October.

2419. Edward Tombs, of Islington, in the county of Middlesex, for an invention of "An improvement in screw-propelling."—Dated 17th October, 1856.

2428. George Wilson, of Glasgow, in the county of Lanark, North Britain, Manufacturer, for an invention of "Improvements in power-looms."—Dated 17th October, 1856.

2432. George Morton, of Keighley, in the county of York, Watchmaker, for an invention of "Improvements in escapements for chronometers and other time-keepers."—Dated 17th October, 1856.

2494. Leonard Alexander Desachy, of Great Marlborough Street, in the county of Middlesex, for an invention of "Improvements in producing architectural mouldings, ornaments, and other works of art formed with surfaces of plaster or cement."—Dated 23rd October, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 15th October*, 1859, *inclusive.*)

13th October.

399. Joseph Hopkinson, the younger, of Huddersfield, in the county of York, Engineer, for an invention of "Improvements in steam boilers."—Dated 15th October, 1852.

14th October.

409. Evan Leigh, of Manchester, in the county of Lancaster, Cotton Spinner, for an invention of "Certain improvements in machinery or apparatus for carding cotton and other fibrous materials."—Dated 16th October, 1852.

15th October.

422. George Randfield Tovell, of Mistley, and John Mann, junior, Esquire, Justice of the Peace, of Colchester, both in the county of Essex, for an invention of "Improvements in the construction of ships and other vessels."—Dated 18th October, 1852.

432. Edwin Heywood, of Glasburn, in the county of York, Foreman to Messrs. Bairstow, of Sutton Mills, Keighley, in the county of York, for an invention of "Improvements in looms."—Dated 18th October, 1852.

761. Samuel Holt, of Stockport, Cheshire, Foreman to Messrs. Christy and Company, of the same place, and of Gracechurch Street, London, for an invention of "Improvements in weaving cut-piled fabrics."—Dated 15th November, 1852.

List of Specifications, &c. published during the week ending 14th October, 1859.

No.	Price.	Subject-Matter.
601	10*d.*	Machinery for the manufacture of tags for laces.
602	3*d.*	Preventing smoke and economizing fuel.
603	8*d.*	Fusee igniter for tobacco smokers.
604	5*d.*	Pianoforte action.
605	3*d.*	Preserving fruits.
606	3*d.*	Apparatus for the transmission of gas and other fluids.
607	3*d.*	Submarine telegraph cables.
608	3*d.*	Hardening india rubber for dental purposes.
609	3*d.*	Obtaining and applying motive power, &c.
610	1*s.* 9*d.*	Steam ploughs, &c.
611	3*d.*	Rifled ordnance and its projectiles.
612	10*d.*	Machinery for manufacturing needles, pointing pins, &c.
613	3*d.*	Manufacture of glass, sand, and emery papers, &c.
614	3*d.*	Wind musical instruments.
615	3*d.*	Building ships, &c.
616	3*d.*	Railway and other signals.
617	7*d.*	Machinery for rolling horse-shoe iron.
618	7*d.*	Billiard tables.
619	3*d.*	Cutting and tempering strips of metal.
620	3*d.*	Manufacture of cannon, small arms, and projectiles.
621	7*d.*	Saddle trees.
622	3*d.*	Manufacture of scale beams and fittings.
623	7*d.*	Rendering ships, batteries, &c., shot proof.
624	3*d.*	Breech-loading fire-arms.
625	3*d.*	Casting mortars and cannon.
626	9*d.*	Reaping and mowing machines.
627	7*d.*	Goffering and rouching machines.
628	6*d.*	Machine for rolling wheel tires.
629	1*s.* 1*d.*	Cutting and preparing wheat.
630	7*d.*	Rotary steam engines, &c.
631	5*d.*	Manufacture of ornamental woven fabrics.
632	3*d.*	Endless chain propellers.
633	3*d.*	Manufacture of shoes, &c.
634	3*d.*	Vermin trap, &c.
635	10*d.*	Mine cage machinery, &c.
636	1*s.* 4*d.*	Machinery for the manufacture of bricks, tiles, &c.
637	5*d.*	Nibs for gas burners.

No.	Price.	Subject-Matter.
638	7*d.*	Apparatus for boring and sinking.
639	8*d.*	Apparatus for telegraphing or signalling.
640	1*s.*	Joining leather and other materials for the production of boots and shoes, &c.
641	6*d.*	Converting wool and other fibres into threads.
642	10*d.*	Apparatus for regulating the supply of water to watercloset, &c.
643	3*d.*	Fixing colours on woven fabrics or fibrous materials.
644	1*s.* 4*d.*	Hydraulic engines and meters.
645	10*d.*	Wrench or spanner.
646	3*d.*	Furnaces for the manufacture of iron.
647	7*d.*	Lamp shades or glasses, and supports for the same.
648	6*d.*	Collecting night soil for agricultural purposes.
649	3*d.*	Manufacture of keys and wood fastenings for railways.
652	3*d.*	Calculating machines.
658	3*d.*	Looms for weaving.
661	3*d.*	Preventing the loss of corks or stoppers.
663	3*d.*	Churns.
669	3*d.*	Locks and keys.
682	3*d.*	Apparatus for lighting matches.
690	4*d.*	Metallic alloy.
694	1*s.* 7*d.*	Steam generators, &c.
710	3*d.*	Manufacture of cylinders and mandrils for printing.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Sweden, Nos. 527 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. 1.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated 8th April*, 1626, *and 23rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated 22nd February*, 1620, *and 2nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated 24th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset, Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent. No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated 7th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated 21st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent, No.* 602, *dated* 16*th March* 1744.) Price 1*s.*

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1973. To THOMAS EASTMAN, of Southsea, in the county of Hants, Naval Instructor, for the invention of "Improvements in screw propellers."—A communication from abroad by James Shepard, residing at Buffalo, United States.

On his petition, recorded in the Office of the Commissioners on the 30th day of August, 1859.

2225. To SETH WARD, of 8, Stanley Place, Stanley Street, Pimlico, in the county of Middlesex, Machinist, for the invention of "An apparatus to be used in the hardening of saws and steel plates generally."

2227. And to CHARLES BROWN, of Warwick Street, Pimlico, in the county of Middlesex, for the invention of "Improvements in inkstands and date indicator."

On both their petitions, recorded in the Office of the Commissioners on the 1st day of October, 1859.

2249. To JAMES RAWLINGS, of Carlton Hill East, in the county of Middlesex, Gentleman, for the invention of "An improved construction of boot-tree."

On his petition, recorded in the Office of the Commissioners on the 4th day of October, 1859.

2271. To GUSTAVUS ADOLPHUS SMITH, of Old Cavendish Street, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in shot and shells, and other projectiles."

2273. To WILLIAM HOPKINS, of Birmingham, in the county of Warwick, Engineer, for the invention of "A new or improved steam engine."

2275. To GEORGE FREEMAN, of Unsworth, near Bury, in the county of Lancaster, Manufacturer, and JAMES ROYLE, of the same place, Manager, for the invention of "Improvements in looms."

2277. To WALTER MACFARLANE, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in machinery or apparatus for drawing off or discharging liquids, and in fountains, baths, and similar receptacles for liquids."

2279. To WILLIAM BENSON, of Fourstones, near Hexham, in the county of Northumberland, Colliery Owner, for the invention of "Improvements in projectiles for muzzle loading rifled ordnance."

2281. To WILLIAM BARRON, of Elvaston, in the county of Derby, Garden Architect and Landscape Gardener, for the invention of "Improvements in boilers applicable to heating and steam generating purposes."

2283. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the construction and manufacture of casks, barrels, and such like vessels, and in the machinery or apparatus to be employed for such manufacture."—A communication from abroad by Jean De Lhatcheff, of Yaroslawl, in the empire of Russia.

On their several petitions, recorded in the Office of the Commissioners on the 6th day of October, 1859.

2285. To GEORGE LAWRENCE LEE, of 49, Holborn Hill, in the city of London, Lithographer, for the invention of "Improvements in producing printing surfaces."

2287. To GEORGE POMEROY DODGE, of 44, St. Paul's Church Yard, in the city of London, Merchant and Manufacturer, for the invention of "Improvements in apparatus for preserving life, applicable to garments."—A communication from abroad by Holman J. Hall, of New York, in the United States of America.

2289. And to DAVID MCCALLUM, of Plymouth, for the invention of "Improvements in electric telegraphs."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of October, 1859.

2291. To WILLIAM IRLAM, of Newton Heath, near the city of Manchester, Engineer, for the invention of "Improvements in the construction of railway turntables and cranes."

2293. To JOHN BROUGH, Machinist, of Birmingham, in the county of Warwick, for the invention of "An improved waterproof dress for protecting and saving life at sea or in other situations where a waterproof dress may be required, as also in the apparatus to be attached to or used with the same, for assisting the wearer to hoist or make signals, by night or by day, and to inflate, propel, and guide or direct himself as desired, the waterproofing principle of which being also applicable to other useful purposes."

2295. And to JAMES CHILDS, of Windsor House, Putney, in the county of Surrey, for the invention of "Improvements in the manufacture of artificial gums."

On their several petitions, recorded in the office of the Commissioners on the 8th day of October, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

19th October, 1859.

994. JOHN MORRIS JOHNSON and EDMUND JOHNSON, of Castle Street, Holborn, for an invention of "Improvements in the production of ornamental surfaces suitable for advertisement tablets, plates for shop fronts, and for other uses."—Dated 28th April, 1859.

1002. JAMES NAPIER, Gentleman, Partick, near Glasgow, in the county of Lanark, Scotland, for an invention of "Improvements in producing figures or representations upon glass."—Dated 21st April, 1859.

1005. DAVID AULD, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in machinery or apparatus for supplying steam boilers with water."—Dated 21st April, 1859.

1007. EDWIN LEWTHWAITE, of Halifax, in the county of York, Clock and Watch Maker, and GEORGE AMBLER, of Queenshead, near Halifax aforesaid, Clock and Watch Maker, for an invention of "Improvements in clocks, watches, chronometers, and other time keepers."—Dated 21st April, 1859.

1010. THOMAS SEAVILLE TRUSS, of Darlington, in the county of Durham, Civil Engineer, for an invention of "Improvements in the construction of pipes, and in the mode of joining the same."—Dated 21st April, 1859.

1018. JOHN ANGUS, of Glasgow, in the county of Lanark, North Britain, Saddlers' Ironmonger, for an invention of "Improvements in saddles."—Dated 23rd April, 1859.

1025. JOHN MARSHALL, junior, of Selby, in the county of York, Gentleman, for an invention of "Improvements in filtering and depurating fluids."—Dated 23rd April, 1859.

1030. JAMES HIGGIN, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in treating madder and plants of the same family and preparations therefrom."—Dated 25th April, 1859.

1044. WILLIAM MACKENZIE, Publisher, of Glasgow, county Lanark, Scotland, for an invention of "An improved method of printing impressions upon an enlarged or reduced scale, either from engraved plates, electrotypes, blocks, drawings, or other surfaces."—Dated 26th April, 1859.

1048. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in vulcanizing and coloring caoutchouc, and in the preparation of caoutchouc paints and colors."—A communication from abroad by Theophile Julien Laballe, of Paris.—Dated 26th April, 1859.

1055. HENRY RICHARDSON FANSHAWE, late of Messrs. Silver and Company's Works, North Woolwich, now of 13, Russell Place, Old Kent Road, in the county of Surrey, India Rubber Manufacturer, for an invention of "Improved apparatus or mechanism for drawing off, filtering, and guaging liquids in butts, barrels, casks, and such like vessels, preserving the contents from deterioration from contact with atmospheric air."—Dated 27th April, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 19th October*, 1859, *inclusive.*)

17th October.

2442. ROBERT HANHAM CGLLYER, M.D., of No. 3, Park Road, Regent's Park, London, county of Middlesex, for an invention of "Improved method of manufacturing paper."—Dated 18th October, 1856.

18th October.

2462. Henry Deacon, of Hans Place, Chelsea, in the county of Middlesex, for an invention of "Improvements in suspending carriage bodies." — Dated 20th October, 1856.

19th October.

2474. George Thomson, of Westbourne Green, Harrow Road, in the county of Middlesex, Mechanist, for an invention of "Improvements in machinery for cutting or rending wood for laths and other uses."—Dated 21st October, 1856.

2476. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improved machinery for rolling and forging iron or steel."—A communication.—Dated 21st October, 1856.

2504. Louis Auguste Mangin, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, for an invention of "A self-acting door spring."—Dated 24th October, 1856.

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(*To 18th October, 1859, inclusive.*)

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450. George Heyes, of Blackburn, in the county of Lancaster, for an invention of "Improvements in the manufacture of fancy woven or textile fabrics, and in the machinery or apparatus connected therewith."—Dated 20th October, 1852.

464. John Gilbert, of 79, Wardour Street, and Samuel Nye, of the same place, in the county of Middlesex, for an invention of "Improvements in mincing meat and other substances."—Dated 20th October, 1852.

18th October.

725. Julien François Belleville, Manufacturer, of Paris, in the French republic, for an invention of "Improvements in generating steam for producing motive-power or heat." — Dated 12th November, 1852.

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Wurtemberg, No. 314.

A List of the Letters Patent for Inventions which have become Void by reason of the Nonpayment of the additional Stamp Duty of £50 before the expiration of the Third Year from the date of such Patents, pursuant to the Act of the 16th Vict. c. 5, sec. 2,—for the Quarter ending the 30th day of September, 1859.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1536	1st July, 1856.	Charles Woide Goodhart, of Woodlands, in the county of Middlesex, Gentleman.	Improvements in bars or gratings for the security of buildings and other property.
1537	„	Frederick George Sanders, of Poole, in the county of Dorset.	Improvements in the manufacture of ornamental floor and other tiles, bricks, slabs, and other similar articles.
1538	„	Alfred Wild, of Windsor, in the county of Berks, Tanner and Currier.	Improvements in the manufacture of boots and shoes.
1539	„	John Coope Haddan, of Cannon Row, in the city of Westminster, Civil Engineer.	Improvements in the manufacture of projectiles, and in firing or discharging them from cannon.
1540	„	James Atkinson Longridge, of 17, Fludyer Street, Westminster, in the county of Middlesex.	Improvements in the application of mechanical power to ploughing and other field operations of agriculture.
1542	„	John Lacey Davies, junior, of the city of Manchester, in the county of Lancaster, Engineer, and John Broadbent, of the same place, Manufacturer.	Certain improvements in umbrellas and parasols.
1543	„	George Harvey and Alexander Harvey, junior, of Glasgow, in the county of Lanark, North Britain, Engineers.	Improvements in machinery or apparatus for boring and drilling.
1545	„	Gegrge Tomlinson Bousfield, of Sussex Place, Loughborough Road, in the county of Surrey.	Improvements in propelling and steering vessels when the force of water is used.
1546	„	George Edward Dering, of Lockleys, in the county of Herts.	Improvements in galvanic batteries.
1550	2nd July, 1856.	Joseph Henry Van Hengel, of No. 531³, Chaussée de Malines, Anvers, in the kingdom of Belgium, and of No. 4, South Street, Finsbury, London.	Improvements in apparatus for raising and lowering bodies in mines.
1552	„	James Fleming, junior, of Newlandsfields, in the county of Renfrew, North Britain, Bleacher.	Improvements in bleaching, washing, cleansing and preparing textile fabrics and materials.
1553	„	William Frederick Spittle, of Birmingham, in the county of Warwick, Machinist.	An improvement or improvements in braiding or plaiting machinery.
1554	„	Edwin Green, of Birmingham, in the county of Warwick, Manufacturer.	Improvements in the manufacture of buttons.
1557	„	Thomas Emmanuel Marais, of Ferrieres la Verrerie (Orne), France.	Improvements in railway signals.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1558	2nd July, 1856.	John Williamson and James Cochran Stevenson, of South Shields, Alkali Manufacturers.	Improvements in evaporating saline solutions.
1560	,,	William Hickling Burnett, of Margaret Street, in the county of Middlesex, Gentleman.	Improvements in electric telegraphs, and in apparatuses employed therein.
1561	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in air engines.
1562	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Certain improvements in machinery for manufacturing rope or cordage.
1563	3rd July, 1856.	John Pendlebury, of Crumpsall, in the county of Lancaster, Bleacher.	Improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials.
1567	,,	Joseph Brown, of 71, Leadenhall Street, in the city of London, Cabinet Manufacturer.	Certain improvements in hats and caps.
1568	4th July, 1856.	Hilton Greaves, of Oldham, in the county of Lancaster, Manufacturer.	Improvements in looms for weaving.
1569	,,	Edwin Greenslade Bradford, of Torquay, Devonshire.	An improved rudder.
1570	,,	Thomas Chandler, of 58, Paradise Street, Rotherhithe.	A lever cask stand.
1573	,,	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in machinery or apparatus for cleaning and carding cotton and other fibrous substances.
1574	,,	Louis Cornides, of No. 4, Trafalgar Square (Office for Patents), Charing Cross, in the county of Middlesex.	Improvements in cementing and uniting together plain or ornamental surfaces of glass, or in uniting surfaces of glass to surfaces of metal or other material.
1575	5th July, 1856.	Edwin Travis, of Oldham, in the county of Lancaster, Engineer, and Joseph Louis Casartelli, of Manchester, in the county of Lancaster, Optician.	Certain improvements in steam-engines
1577	,,	Joseph Adshead, of the city of Manchester, Gentleman.	A new application of a known materia to be used as a substitute for plastering, painting, papering, whitewashing, and colouring.
1579	,,	James Alexander Manning, of the Inner Temple, London, Esquire.	Improvements in the manufacture or production of manure.
1585	7th July, 1856.	Robert Millward, of Patricroft, near the city of Manchester, Foreman.	An improved instrument which may be used as a screw key or gauge.
1592	,,	William Colborne Cambridge, of Bristol, Agricultural Implement Maker.	An improvement in the construction of press wheel rollers and clod crushers.
1593	,,	Henry Smith, of Brierley Hill Iron Works, near Dudley, in the county of Worcester, Manufacturer.	An improvement or improvements in the manufacture of harrows.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1598	7th July, 1856.	HENRY BOLLMANN CONDY, of Battersea -	Improvements in defecating or purifying acetic acid and other solutions, also in disinfecting rooms and other places, and in preserving wood.
1600	8th July, 1856.	GEORGE BRADSHAW WATKINS, of Godmanchester, in the county of Huntingdon, Clerk.	Improved apparatus for obtaining infusions or extracts from various substances.
1601	„	WILLIAM YOUTMAN, of Southampton, in the town and county of Southampton, Gentleman.	Improvements in valves and plugs.
1602	„	JOSEPH HENRY GEORGE WELLS, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents.	Improvements in pistons for steam and other motive power engines and pumps in general, and which improvements are also applicable to stuffing boxes.
1603	„	JOSEPH HENRY GEORGE WELLS, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents.	Improvements in governors or regulators.
1604	„	FREDERICK WILLIAM HOFFMAN, of the city of New York, United States of America.	An improvement or improvements in breech-loading fire-arms.
1605	„	HENRY PAGE, of Whitechapel Road, in the county of Middlesex, Glass Merchant.	Improvements in ornamenting or decorating glass.
1606	„	JULIEN FRANÇOIS BELLEVILLE, Civil Engineer, of Paris, in the French empire.	Certain improvements in generating and applying steam.
1607	„	ROBERT MARTINEAU, of Birmingham, in the county of Warwick, Manufacturer, and BROOKE SMITH, of Birmingham, aforesaid, Manufacturer.	Improvements in taps for drawing off liquids.
1609	„	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved fountain pen.
1610	„	ABRAHAM HERTS, of 22, Bunhill Row, Finsbury, in the county of Middlesex, Commission Agent.	An improved sheet metal bending and tubing machine.
1613	„	SEWALL SHORT, of New London, in the county of New London, U. S. of America.	Certain improvements in horse shoes, and shoes for other animals.
1615	„	DAVID FISHER, of 12, Ranelagh Road, Thames Bank, in the county of Middlesex, Engineer.	A composition for coating metal plates or wheels used for grinding, sharpening, or polishing.
1618	9th July, 1856.	RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the city of London.	Improvements in self-acting apparatus, applicable to certain kinds of machines for spinning cotton and other fibrous substances.
1620	„	WARD HOLROYD, of Queen's Head, near Halifax, in the county of York, Builder, and WILLIAM NOBLE, of the same place, Cabinet Maker.	Improvements in machinery or apparatus for cutting wood and stone.
1624	„	WILLIAM ROBERTSON, of the city of Manchester, in the county of Lancaster, Mechanician.	Improvements in machines for spinning and doubling cotton and other fibrous substances, such machines being of the kinds commonly known as mules, and twiners or doublers, and in the means of weighting rollers in the same and other machinery.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1626	9th July, 1856.	Moss Defries, of Houndsditch - -	Improvements in moderator and other lamps.
1627	,,	Richard Dugdale Kay, of Accrington, in the county of Lancaster, Manufacturer.	Improvements in machinery or apparatus for pressing, straining, sifting, or refining colours and thickened mordaunts.
1628	,,	Robert Thomas Eadon, of the firm of Moses Eadon and Sons, of Sheffield, in the county of York, Steel Manufacturers.	An improvement in the manufacture of band saws and other endless bands or hoops of metal.
1631	10th July, 1856.	John Marsh, of Nottingham, and John Catt, of Stepney, in the county of Middlesex.	Improvements in the manufacture of certain textile fabrics.
1633	,,	Samuel Hardacre, of Miles Platting, in the county of Lancaster, Machinist.	A compound conical spike and spiral double-gridded machine for opening, blowing, scutching, and cleaning cotton wool and other fibrous substances.
1634	,,	Charles William Lancaster, of New Bond Street, in the county of Middlesex, Manufacturer.	An improved method of or apparatus for inking printing or stamping surfaces.
1636	,,	Stephen Martin Saxby, of Rock Ferry, in the county of Chester, Gentleman.	Improvements in ascertaining the errors of mariners' compasses.
1639	11th July, 1856.	John Westwood, Lamp Manufacturer, of Lichfield Street, Walsall, in the county of Stafford.	Improvements in hand, roof, and other railway lamps, parts of which are also applicable to certain descriptions of oil lamps for general purposes.
1640	,,	Thomas Charlton and William Turnbull, of Brentwood, in the county of Essex, Engineers.	Improvements in steam generators.
1642	,,	Jean Baptiste Desiré Chevalier and Narcisse Rabouin O'Sullivan, of Paris (empire of France).	A new or improved method of obtaining or preparing printing surfaces, and in printing therefrom.
1643	,,	Edward Henry Cradock Monckton, of the Parthenon Club, Regent Street, in the county of Middlesex.	The application of a means or process for destroying grubs and other insects or animalculæ or infusoria injurious to plants.
1644	,,	Alfred Nicholson Wornum, of Store Street, Bedford Square, in the county of Middlesex, Pianoforte Manufacturer.	Improvements in grand pianofortes.
1645	12th July, 1856.	Benoit Frédéric Ortet, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of No. 4, South Street, Finsbusy, London, Gentleman.	A new metallic composition applicable to the coating of surfaces, and to the moulding and casting of various objects.
1646	,,	Thomas Madely Hartwell, James William Gladwin, and Henry Gladwin, of the city of Manchester, in the county of Lancaster, Stretchers and Finishers.	Improvements in machinery or apparatus for stretching woven fabrics.
1649	,,	William Petrie, of Woolwich, in the county of Kent, Civil Engineer.	A new porous material for filters and other like articles, and for certain modifications or improvements in the manufacture of the material, whereby it is adapted to the formation of vessels of capacity, to be employed as a cement, as a water and acid proof lining, as a preservative coating, and as a substitute for stone and earthenware.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1651	12th July, 1856.	JOHN AVERY, of 32, Essex Street, Strand, London, Patent Agent.	An improved "plate holder" for photographic and other purposes.
1653	14th July, 1856.	PIERRE BEAUPLANT RASSANT, of Paris, (empire of France,) and of 45, Essex Street, Strand, London.	A new mechanical contrivance for transforming an alternate into a continuous circular motion.
1654	,,	CHARLES BURRELL, of St. Nicholas Works, Thetford, in the county of Norfolk.	Improvements in arranging and rendering portable apparatus suitable for distilling from beetroot and other vegetable substances.
1656	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved mode of securing the plastering of ceilings and walls.
1657	,,	WILLIAM WILLIAMS, of the village and parish of Dale, in the county of Pembroke, Engineer and Contractor for Public Works.	Cutting and dressing stone by machinery.
1658	15th July, 1856.	JEAN LOUIS LUCAS and ALBERT DE BRIGES, Chemists, of Paris, in the French empire.	Improvements in preparing certain liquid or solid alimentary substances from the husk of a certain fruit.
1664	,,	ARTHUR NEILD, of the firm of Neild, Sutcliffe, and Company, of Manchester, in the county of Lancaster, Spinners and Manufacturers.	Improvements in Jacquard and other pattern looms.
1665	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman.	Improvements in apparatus for consuming smoke, to be applied to lamps and gas burners.
1667	,,	GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, in the county of Surrey.	Improvements in pumps.
1671	16th July, 1856.	JAMES FORD, of Preston, in the county of Lancaster, Manager, and PETER KNOWLES, of Bolton-le-Moors, in the same county, Overlooker.	Improvements in machinery for cleaning and preparing cotton and other fibrous substances.
1672	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved apparatus for obtaining rotary motion.
1673	,,	RICHARD MORGAN, of Acton, Middlesex, Gentleman.	A pocket case for containing address cards, stamps, and other similar articles.
1675	,,	DAVID BOWLAS, of Reddish, in the county of Lancaster, Manufacturer.	Improvements in throstles and doubling frames for spinning and doubling cotton and other fibrous materials.
1676	,,	DUNCAN CAMERON, of Glasgow, in the county of Lanark, North Britain, Engineer.	Improvements in cranes or lifting and lowering apparatus.
1677	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman.	Improvements in circular looms.
1679	,,	ADOLPHUS FREDERICK GURLT, of 40, Newington Place, Kennington, in the county of Surrey, Mining Engineer.	Improvements in the manufacture of iron and steel.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1680	17th July, 1856.	Charles Barlow, of the Office for Patents, 89, Chancery Lane, London.	An improved surveying instrument.
1681	„	Henry Bragg, the younger, of Belfast, in the county of Antrim, in Ireland, Commission Agent.	Improvements in drying air, and in machinery for stretching, drying, and finishing fabrics.
1685	„	Ebenezer Seymour, of Bloomfield, New Jersey, in the United States of America, but now residing at Furnival's Inn, in the city of London, Gentleman.	Improvements in the construction of furnaces.
1686	„	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved regulator for heating apparatus.
1687	„	Charles Carey, of 48, Bessborough Street, Pimlico, in the county of Middlesex.	Improvements in the vessels and filters used for making infusions of coffee and other substances.
1688	18th July, 1856.	Francis Barber Howell, of Lebanon, Ohio, in the United States of America, Farmer.	Certain improvements in machinery for making corks.
1690	„	William Leuchars, of No. 38, Piccadilly, in the county of Middlesex.	Improvements in locks for travelling bags.
1692	„	George Frederick Hipkins, of Birmingham, in the county of Warwick, Manufacturer, and John Britten, of Birmingham aforesaid, Engineer.	Improvements in applying springs or weights for the purpose of closing doors or resisting shocks, strains, or pressure.
1693	„	John Cowley, of Quenington, in the county of Gloucester.	Improvements in the manufacture of paper from straw and other vegetable substances.
1694	„	Peter Hubert Desvignes, of Lewisham, in the county of Kent.	Improvements in machinery for scutching or beating flax, hemp, and other fibrous materials requiring like treatment.
1696	„	William Beevers Birkby, of Upper Rawfolds Card Works, Cleckheaton, near Leeds.	Improvements in filleting and fixing pointed teeth in the fillets used in the preparation of flax, tow, hemp, and other fibrous substances.
1697	„	John Hamilton, junior, of Liverpool -	An improvement in the bending of sheet iron for the manufacture of conical tubes.
1704	19th July, 1856.	William Stettinius Clark, of 19, Warwick Street, Charing Cross, in the county of Middlesex, Gentleman.	Improvements in machinery or apparatus for digging, pressing, and moulding peat.
1706	„	John Whitehouse, junior, of Birchall Street, Birmingham, in the county of Warwick, Brass Founder.	Certain improvements in making, mounting, and spindling knobs applicable for doors and other purposes.
1709	„	John Smith, of Oldham, in the county of Lancaster, and Enoch Harrison, of Manchester, in the same county, Manufacturers.	Improvements in machinery or apparatus for warping and beaming.
1710	„	Edward William Young, of No. 22, Maidstone Road, Rochester, in the county of Kent, Civil Engineer.	Improvements in the construction of bridges.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
1712	19th July, 1856.	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	An improved method of supplying air to gas and other lights.
1716	21st July, 1856.	Marc Antoine Augustin Gaudin, Chemist, and Eugène Xavier Choumara, Clerk, both of Paris, in the empire of France.	Manufacturing factitious wholesome milk.
1717	,,	Francis Barbour, of the city of Manchester, in the county of Lancaster, Linen Manufacturer.	Improvements in penholders.
1718	,,	John Pursloe Fisher, of Edgbaston, near Birmingham, in the county of Warwick.	Improvements in cues used at billiards, bagatelle and other similar games.
1722	,,	Frederick Simpson, of Redhill, Surrey -	An improved mode of stopping bottles.
1723	,,	Maurice Vergnes, of the city and state of New York, United States of America.	Improvements in electro-galvanic machines for producing motion by galvanic electricity.
1724	,,	William Green, of York Street, City Road, London, in the county of Middlesex.	Improvements in treating, ornamenting, and waterproofing fabrics, and in machinery or apparatus for effecting the same.
1728	22nd July, 1856.	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in machinery for reaping and mowing.
1730	,,	Samuel Colman, of the city of Norwich, Manufacturer.	Improvements in steam-boilers.
1731	,,	Elias Weisskopf, of Pesth, in Hungary, and of 4, South Street, Finsbury, London, Merchant.	An artificial combustible chiefly applicable to the kindling of fires.
1732	,,	Charles Cowper, of No. 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent.	Improvements in lighting and extinguishing gas lights.
1733	,,	Sven Johan Agrell Burg, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex.	Certain improved apparatus for preventing the explosion of steam-boilers.
1734	,,	Henry Hindle, of Cavendish Street, Ashton-under-Lyne, in the county of Lancaster.	Improvements in valves and apparatus for governing steam engines, and for increasing the safety of steam-boilers.
1736	,,	John Imray, of Bridge Road, Lambeth, in the county of Surrey, Engineer.	Improvements in bending timber.
1737	,,	James Clark, of Newton Heath, Manchester, India-rubber Manufacturer.	Improvements in the manufacture of beds, mattresses, cushions, and seats.
1738	23rd July, 1856.	John Brayshay, of Cinderhill, Ringly Bridge, near Bolton-le-Moors, in the county of Lancashire.	Certain improvements in boilers for generating steam.
1739	,,	George North, of 9, Ashburnham Road, Greenwich, in the county of Kent, Coach Builder.	An improved spring catch for the security of jewellery and articles of personal ornament and general utility.
1740	,,	Samuel Frederic Berthiez, of No. 6, Red Lion Street, Borough, in the county of Surrey.	An improvement in engines to be worked by a new elastic fluid in substitution of steam generated out of water.

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1744	23rd July, 1856.	WILLIAM WEBSTER, of 22, Bunhill Row, in the county of Middlesex.	Improvements in pumps.
1746	,,	GILES MABIE, of Rockford City, Winnebago county, state of Illinois, in the United States of America, but now residing at Byron's Hotel, 2, Rue Favart, Paris, in the empire of France.	Improved machinery for mowing and reaping.
1754	24th July, 1856.	JAMES ASHMAN, of Swansea, Glamorganshire.	Improvements in the manufacture of artificial limbs.
1755	,,	CHARLES BURTON, of 162, Regent Street -	Improvements in warming houses and other buildings.
1756	,,	GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	An improvement in the manufacture of driving straps or bands.
1757	,,	GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	Improvements in the manufacture of flexible hose and tubes.
1761	,,	JOSHUA MATHER and WILLIAM FORSHAW, of Bolton-le-Moors, in the county of Lancaster, Mechanics.	Certain improvements in pickers for looms and apparatus connected therewith.
1762	,,	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in grindstones.
1765	25th July, 1856.	GEORGE SPENCER, of No. 6, Cannon Street, West, in the city of London, Railway Spring Manufacturer.	Improvements in the couplings of feed pipes of locomotive steam-engines and tenders.
1769	,,	ROBERT STUART, of Glasgow, in the county of Lanark, North Britain, Miner.	Improvements in cutting stone and other mineral substances.
1772	,,	SAMUEL JAY and GEORGE SMITH, both of No. 246, Regent Street, in the county of Middlesex.	Improvements in stuffing or padding couches, cushions, bedding, chairs, and other similar articles.
1775	,,	ISHAM BAGGS, of Manchester Street, Argyle Square, in the county of Middlesex, Engineer.	Improvements in apparatus for lighting, signalling, and telegraphing by means of electricity.
1778	26th July, 1856.	CHARLES HODGES, of the city of Manchester, in the county of Lancaster, Manufacturer and Merchant.	Improvements in apparatus for unwinding silk thread or yarn from the hank.
1779	,,	RICHARD CLARKE PAULING, of Great George Street, in the city of Westminster, Civil Engineer.	Improvements in giving increased buoyancy to ships and vessels, in raising sunken vessels, in keeping structures water-tight, and in propelling vessels.
1780	,,	JAMES DICKINSON, of Liverpool, in the county of Lancaster, Ship and Anchor Smith.	Improvements in anchors and in the manufacture of the same.
1782	,,	GEORGE COLLETON COOKE, of George Yard, Lombard Street, in the city of London, Gentleman.	Improvements in stereoscopes.
1783	,,	HENRY REMINGTON, of Camberwell, in the county of Surrey, Gentleman.	An improved gas heating and cooking apparatus.
1786	28th July, 1856.	HENRY ROBINSON, of Settle, in the county of York, Coal Agent.	Improvements in arrangements and mechanism for the conveyance or transport of loads or weights.

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1787	28th July, 1856.	EDMUND EABORN and MATTHEW ROBINSON, Engineers, trading as co-partners, and carrying on business in Clement Street, Birmingham, in the county of Warwick.	Certain improvements in machinery to be used for confectionary purposes.
1788	„	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	An improved instrument for taking altitudes.
1791	29th July, 1866.	WILLIAM GRIFFIN, of the town and county of Northampton, and ELIZABETH DULLY, of the same place.	Improvements in studs and buttons for fastening articles of dress.
1792	„	ROBERT THATCHER, of Oldham, in the county of Lancaster, Cotton Spinner.	Certain improvements in preparing for doubling or spinning cotton or other fibrous substances.
1794	„	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Certain improvements in the process of generating illuminating gas.
1799	30th July, 1856.	ROBERT WILLIAM SIEVIER, Sculptor, of Upper Holloway, in the county of Middlesex, in the United Kingdom of Great Britain, but now residing in Bruxelles, in the kingdom of Belgium.	Improvements in preserving wood from decay, and also from destruction by insects.
1800	„	HENRI EVETTE, Manufacturer, of Lizieux, town in the French empire.	Improvements in looms for weaving.
1801	„	JULIEN DENIS, of Queenhithe, in the city of London.	An improved gelatinous and economical soap.
1805	31st July, 1856.	GEORGE HOLCROFT, of the city of Manchester, in the county of Lancaster, Consulting Engineer, and PETER JOHNSON, of Wigan, in the same county, Cotton Spinner.	Improvements in the manufacture of cement, and in the application of a known material to cementing purposes.
1807	„	CONSTANTINE JOHN BAPTIST TORASSA, of Genoa.	Improvements in obtaining motive power by the aid of explosive gases.
1811	„	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	An improvement in the construction of carriages and waggons.
1812	„	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	An improved auger or boring tool.
1813	„	PIERRE MARIE JOSEPH CHAMBLANT, of 36, Rue de Lanery, Paris.	Improvements in the manufacture of glass.
1814	„	WILLIAM COLTMAN, of Leicester, Wine Merchant.	Improvements in knitting machinery.
1815	„	THOMAS WICKSTEED, of Coleman Street, in the city of London, Civil Engineer.	Improvements in separating sewage and other matters from water, or fluid mixed therewith.
1816	„	THOMAS ROUTLEDGE, of 17, Gracechurch Street.	Improvements in the manufacture of half stuff and paper.
1818	1st August, 1856.	ALEXANDRE TOLHAUSEN, of No. 7, Duke Street, Adelphi, London, county of Middlesex, Sworn Interpreter at the Imperial Court of Paris.	A new and improved flexible pocket umbrella, being likewise applicable to common and other sticks, canes, &c.
1819	„	JOHN WATKINS BRETT, of Hanover Square, in the county of Middlesex, Gentleman.	Improvements in letter and numeral printing electric telegraphs.

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1822	1st August, 1856.	JOHN AVERY, of 32, Essex Street, Strand, London, Patent Agent.	Improvements in bonnets and other coverings for the head.
1824	,,	RICHARD ALBERT TILGHMAN, of Philadelphia, in the United States of America, Chemist.	Improvements in hydro-extractors or centrifugal machines.
1825	,,	ROBERT REEVES, of Bratton, Westbury, Wilts, Agricultural Implement Maker.	Improvements in machinery for sowing or depositing seeds and manure.
1826	,,	WILLIHM FRANKLIN SHAW, of the State of Massachusetts, of the United States of America.	An improved burner or apparatus for the combustion of air and inflammable gas.
1827	2nd August, 1856.	OLIVER LONG, of Cornhill, in the city of London, Commission Agent.	Improvements in mechanical knife cleaners.
1828	,,	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in the manufacture of artificial fuel.
1829	,,	THOMAS DONKIN, of Bermondsey, in the county of Surrey, Engineer.	Improvements in the glazing of paper.
1830	,,	JOSIAH RHODES, of the firm of J. Rhodes and Company, of the Holborn Brass Foundry, in the town and county of the town of Nottingham.	Improvements in machinery or apparatus for reducing turnips and other vegetable substances to a pulpous state.
1831	,,	THOMAS GREEN, of Leeds, Mowing Machine Maker.	Improvements in mowing machinery.
1835	4th August, 1856.	CHARLES THÉODULE LAUNAY and JULES CHOPIN, Gas Fitters, of Paris, in the French empire.	Improvements in increasing the illuminating power of gas.
1836	,,	GEORGE WALKER, of Belfast, in the county of Antrim, Spinner, and JAMES SCRIMGEOUR, of the same place, Machinist.	Improvements in spinning frames.
1837	,,	THOMAS BARNABAS DAFT, of the Irish Engineering Company, Dublin.	Improvements in the manufacture of cast-iron pipes.
1838	,,	ALEXANDER WRIGHT, of Milbank Street, Westminster, Engineer.	Improvements in lighting mines and subterranean places with gas.
1839	,,	JOSIAH FIRTH, of Heckmondwike, in the county of York, Carpet Manufacturer, and JOSEPH CRABTREE, of Mill Bridge, near Heckmondwike aforesaid, Machine Maker.	Weaving Scotch, Kidderminster, and Dutch carpets by means of a power loom.
1844	5th August, 1856.	ANTOINE DOMINIQUE SISCO, of Paris, in the empire of France, Practical Engineer.	Improvements in railway breaks.
1846	,,	JEAN JACQUES DANDURAN, Civil Engineer, of No. 13, Charlotte Street, Fitzroy Square, county of Middlesex.	An apparatus called the self-swimmer.
1849	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improvement in primers for fire-arm cartridges.
1850	,,	AUGUSTUS PFALTZ, of the state of Massachusetts.	A new and useful mode or process for making soap from rosin.
1856	6th August, 1856.	THOMAS EVANS, junior, of No. 2, Belmont Terrace, Lewisham Road, in the county of Kent.	Improvements in harness.

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1857	6th August, 1856.	William Hall, of Birmingham, in the county of Warwick, Gentleman, Elisha Wylde, of the same place, Engineer, and William Waite, also of the same place, Engineer.	Improvements in steam engines.
1861	7th August, 1856.	Alexandre Théodore Nicolas Goll, of 57, Rue de Bretagne, Paris, in the empire of France, and of 4, South Street, Finsbury, London.	An improved button.
1863	,,	Samuel King, of Brighton, in the county of Sussex.	Improvements in spirit lamps.
1864	,,	Coleman Defries, of the firm of Jonas Defries and Sons, Houndsditch.	Improvements in the roof lamps of railway carriages.
1867	8th August, 1856.	Joseph Lesse, junior, of Manchester, in the county of Lancaster, Calico Printer.	Certain improvements in machinery used for printing calico and other fabrics.
1868	,,	John Woodman, of the city of Manchester, in the county of Lancaster, Engineer.	An improved telegraph insulator.
1869	,,	Thomas Austen, of Waltham Abbey, in the parish of Waltham Holy Cross, in the county of Essex, Civil Engineer.	A machine for ascertaining the propelling force of gunpowder.
1870	,,	William Gorse, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved door fastener.
1871	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improvements in machinery for composing and distributing types.
1875	9th August, 1856.	William Webster, of 22, Bunhill Row, in the county of Middlesex.	An improved valve cock.
1878	,,	John Darlington, of No. 36, Cannon Street, in the city of London.	Improvements in superheating steam.
1880	,,	Chapman March, of Alwalton Mills, in the county of Huntingdon, Miller.	Improvements in propelling and working ships and vessels.
1882	,,	Edward Owen, of Aberdeen Terrace, Blackheath, in the county of Kent, Chemist.	Improvements in the manufacture of gas, and in the obtainment of products arising in such manufacture.
1883	,,	George Anderson, of 22, Queen's Road, Dalston, in the county of Middlesex, Gas Engineer.	Improvements in the construction of taps or valves for regulating the passage of gas.
1884	11th August, 1856.	Peter Armand le Comte de Fontaine-Moreau, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London.	A new electro-motive engine.
1887	,,	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	An improved fermenting agent.
1888	12th August, 1856.	Nicholas Doran Maillard, of Dublin	An improved mechanical and magnetic compass.
1890	,,	Edwin Firth, of the firm of Edwin Firth and Sons, of Flush Mills, Heckmondwike, near Leeds, in the county of York.	Improvements in finishing mohair cloth.
1894	13th August, 1856.	David Lesser, of Manchester, in the county of Lancaster, Confectioner.	Certain improvements in machinery or apparatus for making "Lozenges" or other similar articles.

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1895	13th August, 1856.	Richard Dugdale Kay, of Accrington, in the county of Lancaster, Manufacturer.	Improvements in machinery or apparatus for washing, scouring, cleaning, preparing, dyeing, or finishing woven fabrics, yarns, or threads.
1896	,,	William Church, of Birmingham, in the county of Warwick, Engineer, and Henry Whiting Hamlyn, of Birmingham aforesaid, Corn Factor.	An improved method or improved methods of constructing or building hay and other ricks.
1897	,,	Jean Baptiste Clara, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London, Civil Engineer.	Certain improvements in producing and employing steam and the gaseous products of combustion for obtaining motive-power.
1901	14th August, 1856.	John Knowles, of Holcombe Brook, in the county of Lancaster, Manufacturer, and William Clarke, of Manchester, in the same county, Manufacturer.	Certain improvements in looms for weaving.
1902	,,	Thomas Bilbe, of Nelson Dock, Rotherhithe, in the county of Surrey, Shipbuilder.	Improvements in the construction of ships and other vessels.
1903	,,	William Morgan, of 48, Gloucester Terrace, Hyde Park.	Improvements in the manufacture of guns and mortars.
1905	,,	Peter Augustin Godefroy, of No. 3, King's Mead Cottages, New North Road, Islington, in the county of Middlesex, Operative Chemist.	An improved treatment of the matrix of rock quartz, and all like substances, for the extraction of auriferous, argentiferous and other metals contained therein.
1907	15th August, 1856.	John Burns Smith, of the city of Manchester, Mill Manager.	Certain improvements in machinery for preparing, spinning, and twisting cotton and other fibrous substances.
1908	,,	Henry Columbus Hurry, Civil Engineer, of Wolverhampton, in the county of Stafford.	Improvements in railway crossings.
1914	16th August, 1856.	William Hargreaves, of Bradford, in the county of York, Machine Woolcomber.	Improvements in Collier's combing machine in combing wool, hair, cotton, silk, flax, and other fibrous substances.
1916	,,	David Chalmers, of the city of Manchester, in the county of Lancaster, Machinist.	Improvements in looms for weaving.
1919	,,	Samuel Lilley, of Birmingham, in the county of Warwick, Engineer and Machinist.	Improvements in the manufacture of ships' iron work, a part of which improvements is applicable to the manufacture of other articles in iron.
1920	,,	Philippe Pierre Hoffmann, of Strasbourg, in the empire of France.	An improved compound to be used for waterproofing fabrics, paper, leather, or other materials.
1921	,,	Louis Auguste Joyeux, of Marseilles, empire of France.	Improvements in obtaining motive power.
1923	18th August, 1856.	Thomas Scott, of Barnhill Workhouse, Glasgow, in the county of Lanark, North Britain, Mechanic.	Improvements in cooking.
1924	,,	William Tytherleigh, of Birmingham, in the county of Warwick, Accountant Clerk.	A new or improved manufacture of rollers or cylinders for printing fabrics.
1925	,,	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for cutting and finishing metal screws.

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1927	18th August, 1856.	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for forging or working iron and other metals.
1928	„	John Stopporton, of the Isle of Man -	Improvements in propelling vessels.
1929	„	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in stopping or retarding railway carriages and trains, and in preventing carriages running off the rails.
1930	„	Andrew Peedie How, of Mark Lane, in the city of London, Engineer.	Improvements in pumps.
1932	19th Aug. 1856.	James Leach, William Turner, and John Tempest, of Rochdale, in the county of Lancaster.	Improvements in rollers applicable to condensing and all other kinds of engines for carding wool, cotton, and other fibrous materials.
1933	„	Henry Forfar Osman, of 33, Essex Street, Strand, London, county of Middlesex, Gentleman.	An improved electric clock.
1938	„	Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London.	Improvements in the manufacture of iron and steel.
1941	„	William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	An improvement in valves for steam engines.
1942	„	Anthony Charles Vetter de Doggenfeld, of Trinity Square, Brixton, in the county of Surrey.	Improved glass ornaments for ornamenting gardens, summer houses, dinner and other tables, and for other ornamental or decorative purposes.
1943	20th August, 1856.	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman.	Improvements in steam-engines.
1944	„	John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman.	Improvements in roller fulling mills.
1946	„	Charles Clark, of Somerset Terrace, Albion Road, Stoke Newington, in the county of Middlesex.	Improvements in combining and arranging looking glasses for toilet purposes.
1948	„	Jules Laleman, of Lille, in the empire of France, one of the members of the firm Canyn and Company, consisting of William Lenty, Widow Lenty, Victor Canyn, and Jules Laleman.	Improved machinery for combing flax and other similar fibrous materials.
1951	21st August, 1856.	Joseph Hackling, of Clitheroe, in the county of Lancaster, Cotton Manufacturer, and William Wheeler, of the same place, Gentleman.	Improvements in the mode or method of winding, warping, sizing, and beaming cotton, woollen, linen, or other yarns or threads, and in the machinery or apparatus employed therein.
1953	„	William Akroyd and John Thompson, both of Halifax, in the county of York, Carpet Weavers.	The manufacture of carpets or other fabrics.
1956	„	Robert Kenton, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of fishing reels.

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1958	21st August, 1856.	GEORGE JAMES FARMER, of Birmingham, in the county of Warwick, Machinist.	Improvements in machinery to be used in the manufacture of chain links, buckles, buckle slides, rings, and other similar articles.
1959	22nd August, 1856.	THOMAS JOHN CHIPP and RICHARD BITMEAD, at present of Soho, in the county of Middlesex.	Improved apparatus for drilling and boring.
1962	,,	WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer.	Improved machinery for cutting chenille.
1964	23rd August, 1856.	FREDERICK ALBERT GATTY, of Accrington, in the county of Lancaster, Manufacturing Chemist.	Certain improvements in dyeing.
1966	,,	EDWARD HALLEN, of Cornwall Road, Lambeth, in the county of Surrey, Civil Engineer.	Improved means for washing wool.
1967	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman.	Improvements in stocking looms.
1969	,,	WILLIAM RACSTER, of 28, Francis Street, Woolwich.	Improvements in apparatus for regulating the supply of gas.
1970	,,	ETIENNE STERLINGUE, Manufacturer, of Paris, town in the French empire.	Improvements in preparing for tanning, and in tanning hides and skins.
1972	,,	GEORGE JAMES FARMER, of Birmingham, in the county of Warwick, Machinist.	Improvements in hardening iron and steel.
1973	,,	JAMES WADSWORTH, of Hazelgrove, near Stockport, in the county of Chester, Machine Maker.	Improvements in the ventilation of mines, and in removing noxious gases or vapours from places in which they accumulate or are generated, and in machinery or apparatus applicable to and to be used for such purposes.
1977	25th August, 1856.	WILLIAM WEBB, of Wilson Street, in the county of Middlesex, Upholsterer.	An improvement in reclining chairs.
1981	,,	HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the city of London.	Improvements in the manufacture of iron and steel.
1982	,,	GEORGE WARRINER, of Withernsea, in the county of York, Operative Chemist.	Improvements in compounds for preserving deodorizing and fertilizing.
1983	26th August, 1856.	JOHN PERRY, of No. 14, Great Portland Street, in the county of Middlesex, Artist.	Improvements in photography.
1985	,,	WILLIAM FREDERICK BUSH, of the city and county of Bristol, Millwright, and WILLIAM HEWITT, of the same place, Gentleman.	Improvements in machinery or apparatus for grinding grain.
1987	,,	CHARLES CAREY, of the Parade, Harleyford Road, Vauxhall.	Improvements in shower baths.
1989	,,	JAMES Earl of CAITHNESS, of Barrogill Castle, in the county of Caithness, North Britain.	Improvements in cutting or shaping stone and other substances.
1990	,,	EDMUND SIMPSON, of Preston, in the county of Lancaster, Manufacturer of Gold Thread.	An improved safety cage for mines and pits, or apparatus to be fitted to cages to prevent accidents from the falling thereof.

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1997	27th August, 1856.	THOMAS LEEDS, of Stockport, in the county of Chester, Machinist.	Improvements in lubricating parts of steam-engines, and in apparatus and machinery to be applied for that purpose.
1999	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improvement in projectiles for cannon.
2000	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved machinery for combing fibrous substances.
2003	28th August, 1856.	CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart Saint Martin, Paris, Patent Agent.	A mode of treating and preparing sea weeds or marine plants for manure.
2004	,,	CHARLES DURAND GARDISSAL, of 10, Bedford Street, Strand, London, and of 29, Boulevart St. Martin, Paris, Patent Agent.	A new manufacture of artificial fuel.
2005	,,	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in shuttles.
2009	,,	JEAN BAPTISTE FEAUVEAU and LOUIS ALEXANDER LEGRAND, both of Brussels, kingdom of Belgium.	An improved apparatus for the purification and the combustion of gas.
2011	29th August, 1856.	EDWARD POITIERS, of No. 12, Maldon Terrace, Haverstock Hill, in the county of Middlesex.	The application of a new material or materials for the manufacture of brooms and brushes in general, and for other purposes, and for improvements in the manufacture of street scavenger's and other brooms and brushes.
2012	,,	JOHN RANDOLPH SEES, of the city of New York, in the United States of America, Mechanical Engineer.	Improved apparatus for heating the feed water of steam-boilers.
2013	,,	JOHN BROWN, of Pendleton, in the county of Lancaster, Surgeon.	Improvements in swinging hammocks, and in the construction of bedsteads or couches, and in apparatus connected therewith.
2014	30th August, 1856.	JOHN FLETCHER, of Salford, in the county of Lancaster, Ironfounder, and WILLIAM FLETCHER, of the same place, Millwright.	Certain improvements in the construction of weighing cranes or other similar elevating machines.
2015	,,	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman.	Improvements in fire-arms.
2020	,,	CHARLES GOODYEAR, of Leicester Square, in the county of Middlesex.	An improvement in combining gutta-percha and asphalt or pitch.
2024	,,	MANOAH BOWER, of Birmingham, in the county of Warwick, Manufacturer, and RICHARD PEYTON, of Birmingham aforesaid, Manufacturer, and JOSES WEAVER Downing, of Birmingham, aforesaid, Metallic Bedstead Maker.	Improvements in metallic bedsteads, cots, couches, and other such like articles.

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2026	1st Sept. 1856.	Matthias Edward Bowra, of 63, Basinghall Street, in the city of London.	Improvements in the laying or placing of rails or chairs for railway and other purposes, in the shape of bed or springs or elastic sleepers.
2027	,,	Thomas Pinfold Hawkins, of Birmingham, in the county of Warwick, Manufacturer.	A new or improved manufacture of wire chain.
2029	,,	Richard Hill Norris, M.D., of 46, Stafford Street, Birmingham, in the county of Warwick.	Certain improvements in photography, by the use of collodion in a dry condition, and for a means of transferring photographic films.
2030	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved charger for shot pouches.
2033	,,	Lazarus Simon Magnus, of No. 3, Adelaide Chambers, in the city of London.	Improvements in the manufacture of coke.
2039	3rd Sept. 1856.	George Cumming Thomas, of Washington city, United States of America, but now of 67, Gracechurch Street, in the city of London.	An improved method of making steel.
2046	,,	Joseph Lamb, of Manchester, in the county of Lancaster, Spindle and Flyer Maker.	Certain improvements in machinery or apparatus for preparing, slubbing, and roving cotton, and other fibrous substances.
2041	,,	Jean Baptiste Marcelin Jobard, Directeur du Musée de l'Industrie, Belge, à Bruxelles.	Improvements in the manufacture of lamps.
2044	,,	Louis Cornides, of No. 4, Trafalgar Square, (Office for Patents,) Charing Cross, in the county of Middlesex.	A new method of dressing or preparing hides, skins, intestines, and such like animal substances.
045	,,	Simon Ghidiglia and Louis Turletti, of 39, Rue de l'Echiquier, Paris, in the empire of France, and 4, South Street, Finsbury, London.	An improved buckle.
2048	,,	Jules Mozard, of 6, Dufour Place, Golden Square, in the county of Middlesex.	Improvements in the construction of miners' lamps.
2049	4th Sept. 1856.	James Picken, of Dunlop, in the county of Ayr, North Britain, Millwright.	Improvements in the arrangement of the feed apparatus of machines for thrashing or separating grain.
2051	,,	John Morrison, of Birmingham, in the county of Warwick, Machinist, and Samuel Amphlet, of Birmingham aforesaid, Manufacturer.	A new or improved fastening for belts, bands, and other such like articles.
2052	,,	Constant Jouffroy Duméry, of Paris, in the empire of France, Civil Engineer.	Improvements in steam engines.
2053	,,	Joel Tanner Hart, of Lexington, Kentucky, in the United States of America, now of 67, Gracechurch Street, London, Sculptor.	Improvements in apparatus for modelling statuary from life, and for measuring and copying statuary and other uneven surfaces.
2055	,,	George Alfred Lewis, of Bristol, Somerset.	Disconnecting and raising screw propellers.
2056	,,	Eugene Armand Roy, John Archibald Hall, and William Thomas Binns, all of Camden Town, in the county of Middlesex.	An improved means of ensuring draught in smoke flues or chimneys.

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2057	4th Sept. 1856.	William Keates, of Liverpool, in the county of Lancaster, Copper and Lead Smelter.	Improvements in the process of reducing copper to the metallic state from ores and other materials, containing copper, and in the furnaces employed therein.
2061	,,	John Loude Tabberner, of No. 4, Trafalgar Square, (Office for Patents,) Charing Cross, in the county of Middlesex.	Certain improvements in smelting ores.
2063	,,	Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in the construction of buildings and parts of buildings.
2065	5th Sept. 1856.	Henry Edward Cradock Monckton, of the Parthenon Club, Regent Street, in the county of Middlesex, and William Clark, of Upper Terrace, Islington, in the county of Middlesex.	Improvements in machinery or apparatus for tilling or cultivating the soil.
2066	,,	John Johnson, of Single Street, Mile End, London, Colour Manufacturer.	Improvements in railway carriages.
2069	,,	Ralph Reeder, of Cincinnati, in the state of Ohio, United States of America.	An improved universal dial and chronometer compass.
2072	,,	John Johnston, of Ohio, in the United States of America, and of No. 4, Trafalgar Square, (Office for Patents,) Charing Cross, in the county of Middlesex.	Improvements in photographic plates.
2080	6th Sept. 1856.	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved machinery for cutting round files.
2081		Charles Louis Lapito, of No. 75, Faubourg Poissonier, Paris, at present residing at No. 2, High Street, Marylebone, Manufacturer of Mortar and Concrete.	A machine for manufacturing of mortar and concrete.
2083	,,	Peter Armand le Comte de Fontainemoreau, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Patent Agent.	Certain improvements in making artificial stone for statues and ornamenting purposes.
2085	,	Paul Rapsey Hodge, of Albion Grove, Islington, in the county of Middlesex, Civil Engineer.	Improvements in grinding wheat and other farinaceous grains, and in the treatment of the products therefrom.
2088	8th Sept., 1856.	Adolphe Gilbert Chalus, Merchant, of Paris, empire of France, and of 45, Essex Street, Strand, London.	Certain improvements in stopping bottles and other vessels.
2092	,,	Boniface Sabatier, of Paris, and of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex.	Improvements in photography.
2094	,,	Thomas Restell, of New Kent Road, in the county of Surrey, Chronometer Maker.	Improvements in breech-loading firearms and ordnance.
2096	,,	Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman	Improved machinery for cutting india rubber and other substances into threads or narrow strips.
2097	9th Sept., 1856.	John Watson, of 30, Tureen Street, Glasgow, in the county of Lanark, North Britain, Manufacturer, and Charles Frederic Halle, of Manchester, in the county of Lancaster.	Improvements in spinning or twisting fibrous materials.

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2100	9th Sept. 1856.	WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist.	Improvements in the manufacture of certain kinds of soap.
2101	„	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	An improvement in and apparatus for sprinkling substances in a state of powder.
2103	„	GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	An improvement in flying or roving frames.
2105	„	WILLIAM SMITH, of 10, Salisbury Street, Adelphi, in the county of Middlesex, Civil Engineer.	A powerful compound whistle.
2106	10th Sept. 1856.	HENRY COOKE, of Manchester, in the county of Lancaster, Cotton Spinner.	Certain improvements in dyeing yarns or threads.
2117	„	WILLIAM WEBSTER, of 22, Bunhill Row, Finsbury, in the county of Middlesex.	Improvements in troughs for feeding animals.
2119	„	WILLIAM OLDHAM, of Southam, in the county of Warwick, Cement Manufacturer.	Improvements in the manufacture of cement, and in treating or preparing colouring matter for cements.
2120	„	WILLIAM HENRY FORSTER, of Gravesend, in the county of Kent, Jeweller.	An improved fastening for articles of jewellery, brooches, or dress ornaments.
2122	11th Sept. 1856.	JOHN GEDGE, of No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agent.	Improvements in paint or colouring matter, applicable to coating metals and other substances, whereby the oxidation of metal is prevented, and resistance to the action of the atmosphere, rays of heat, or acids is secured.
2123	„	JAMES HUDSON, of Halifax, in the county of York, Gentleman.	Improvements in whetting or setting printers' doctors and other straight edged tools or instruments.
2125	„	RICHARD ATKINSON COWARD, of Laurence Pountney Lane, in the city of London.	Improvements in paddle-wheels for propelling vessels.
2128	„	JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, in the city of London.	Improvements in the construction of iron bridges.
2131	„	CONSTANT JOUFFROY DUMÉRY, of Paris, in the empire of France, Civil Engineer.	Improvements in apparatus for counting, registering, and indicating the distance travelled by vehicles, and the speed and time of travelling.
2132	12th Sept., 1856.	WILLIAM STETTINIUS CLARK, of Camden Town, in the county of Middlesex.	Improvements in hydraulic heaters or furnace.
2134	„	JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, in the city of London.	Improvements in repeating fire arms.
2139	„	GEORGE HUTCHISON, of 160, Hope Street, Glasgow.	Improvements in the treatment of oils and fats.
2143	13th Sept., 1856.	WILLIAM WHITTLE, of Smethwick, in the county of Stafford, Mechanical Engineer.	New or improved machinery for the manufacture of nails.
2145	„	JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman.	Improvements in fire arms.

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2151	13th Sept., 1856.	JOHN BUCHANAN, of Katrine, in the county of Ayr, North Britain, Gentleman.	Improvements in propelling vessels.
2153	15th Sept., 1856.	JOHN KNOWELDEN, of Southwark, in the county of Surrey, Engineer.	Improvements in the arrangement of valves and apparatus for preventing steam-boiler explosions.
2154	,,	JEAN BAPTISTE JUSTIN LASSIE, of 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Mechanical Engineer.	A new system of aërial navigation.
2155	,,	CORNELIUS FERGUSON CLEMENTS, of Liverpool.	An improvement in separating copper and other metals from ores containing them.
2156	,,	CALVIN KLINE, of Brooklyn, in the county of Kings, and state of New York, United States of America.	The improvement of mariners' and other compasses, by which the effect of local attraction is cut off or neutralized, and the compass is made to traverse more perfectly.
2158	,,	ALEXANDER ROWAND, of Glasgow, in the county of Lanark, North Britain, Merchant.	Improvements in cases or vessels for holding gunpowder.
2160	16th Sept., 1856.	ROBERT ELMY GARROOD, of Chelmsford, in the county of Essex, Plumber and Glazier.	Improvements in stop cocks and valves for the drawing off and passage of air, gas, steam, water, and other fluids, or for any other purpose for which the same may be applicable.
2161	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	An improved preparation of phosphoric acid.
2162	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improved apparatus for raising water by atmospheric pressure.
2163	,,	ROBERT WALKER, junior, of 62, Buchanan Street, Glasgow.	Improvements in ascertaining the draught of water and trim of ships or vessels.
2166	,,	RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, Patent Agent.	Improvements in water-closets and night stools.
2168	,,	ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist.	Improvements in the manufacture of iron.
2170	,,	ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist.	Improvements in the manufacture of iron.
2171	,,	JOSEPH GILBERT MARTIEN, of Newark, New Jersey, in the United States of America, but at present of 32, Essex Street, Strand, London.	Improvements in the manufacture of iron.
2172	17th Sept., 1856.	ROBERT BURNS, of Liverpool, in the county palatine of Lancaster, Engineer.	Improvements in bone mills.
2176	,,	ANTOINE ANDRAUD, of Paris, in the empire of France, Engineer.	Certain improvements in wheelbarrows.
2177	,,	WILLIAM FREDERICK SPITTLE, of Birmingham, in the county of Warwick, Machinist.	A new or improved spindle for braiding and plaiting machines.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2178	17th Sept., 1856.	Alfred Lodwick Newman, of New Church Street, Bermondsey.	Improvements in processes for separating animal from vegetable fibre, and for adapting the products to manufacturing purposes and in the machinery employed therein.
2179	,,	Carl Heinrich Schröder, of Altona, in the duchy of Holstein, Engineer.	An improved rotatory engine to be worked by steam or other elastic fluid, which invention is also applicable as a rotatory pump for raising and forcing liquids.
2180	,,	George Davies, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the county of Middlesex, Civil Engineer.	Improvements in apparatus for actuating railway breaks.
2182	,,	John Muir Hetherington, of Manchester, in the county of Lancaster, Machinist, and James Gee, of the same place, Draughtsman.	Improvements in flyers for preparing cotton and other fibrous substances for spinning.
2184	18th Sept., 1856.	Thomas Callender Hinde, of Birmingham, in the county of Warwick, Merchant and Manufacturer.	An improvement or improvements in the manufacture of iron.
2186	,,	Louis Jacquemier, of Rome, now residing at Charlotte Street, Fitzroy Square, in the county of Middlesex, Gentleman.	An improved method of hardening and colouring alabaster and other gypsums and calcareous stones and earths.
2190	,,	William Frederick Plumber, of Saint Mary's, Overy Wharf, Southwark, Machinist.	An improved mode of preparing hard wheat and other hard grain for grinding.
2191	,,	Thomas Greenwood, of Leeds, in the county of York, Machinist.	Improved machinery for trimming the teeth of wheels.
2193	,,	Charles Goodyear, junior, of Leicester Square, in the county of Middlesex.	Improvements in the manufacture of penholders and handles for penholders.
2194	19th Sept., 1856.	Jean Baptiste Honoré de Roussen, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of No. 4, South Street, Finsbury, London.	Certain improved apparatus for washing and cleansing ores.
2196	,,	Charles Frederic Vasserot, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agent.	Improvements in filtering water on a large scale.
2198	,,	Pierre Laffitte, of Paris, in the empire of France, Manufacturer.	An improved engine with rotary piston applicable to various purposes.
2199	,,	Amos Hustler, Overlooker, of Bradford, in the county York.	Improvements in looms for weaving.
2213	20th Sept., 1856.	Thomas Webster Rammell, of Trafalgar Square, in the county of Middlesex, Civil Engineer.	Improvements in constructing railways and propelling carriages thereon.
2214	,,	John Roberts, of Walsall, in the county of Stafford, Mine Agent and Surveyor, and James Beech, of Walsall aforesaid, Railway Inspector.	A new or improved railway chair.
2215	,,	Alfred Ford, of Chelsea, in the county of Middlesex, Gentleman.	Improvements in dissolving vulcanized indian rubber for waterproofing and like purposes.
2216	,,	George William Sayer, of Mark Lane, in the city of London, Gentleman.	Improved machinery for stopping or retarding railway carriages.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2217	20th Sept., 1856.	THOMAS EVANS BLACKWELL, of Clifton, Bristol, Engineer.	An improved mode of constructing fire flues and air passages.
2219	22nd Sept., 1856.	ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist.	Improvements in the manufacture of iron and steel.
2220	,,	ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist.	Improvements in the manufacture of iron and steel.
2223	,,	JOHN MORRISON, of Birmingham, in the county of Warwick, Machinist.	A new or improved penholder.
2224	,,	THOMAS WALLACE, of Limehouse, in the county of Middlesex, Engineer.	Improvements in the manufacture of wheels, axles, and axle-boxes.
2225	23rd Sept., 1856.	JOHN GEORGE TAYLOR, of Glasgow, in the county of Lanark, Merchant.	Improvements in fastenings, connectors, and couplings, and in the application thereof.
2227	,,	FRANCIS WRIGLEY, of the Long Island Iron Works, Carlisle, in the county of Cumberland, Engineer.	An improved friction coupling for the transmission of motive-power.
2229	,,	RICHARD HUSBAND, of the city of Manchester, in the county of Lancaster, Hat Manufacturer.	Certain improvements in the manufacture of silk hats.
2230	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in gimlets, augers, and other tools which operate by a rotary motion.
2231	23rd Sept., 1856.	WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Civil Engineer.	Improvements in machinery for doubling and twisting fibrous materials.
2233	24th Sept., 1856.	ANDREW BARRIE, of Edinburgh, Watchmaker.	A new or improved instrument or apparatus for registering the time at which workmen arrive at and leave their place of work, and for other such like purposes.
2236	,,	ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman.	Improvements in carding engines.
2237	,,	PETER WILLIAM BARLOW, of Great George Street, Westminster.	Improvements in the permanent way of railways.
2241	,,	VICTOR FREDERIC ANTOINE PROST, Merchant, of Paris, town in the French empire.	Improvements in weaving and in the machinery or apparatus employed therein.
2242	25th Sept., 1856.	ROBERT BROWN, of Glasgow, in the county of Lanark, North Britain, Brass Founder.	Improvements in taps or valves.
2243	,,	THOMAS HOLMES, of Pendleton, in the county of Lancaster, Bleacher, and THOMAS ASPINALL, of Pendleton aforesaid, Watchman.	Improvements for preventing or diminishing the production of smoke in fireplaces and furnaces, and for effecting its combustion.
2244	,,	JOSEPH WILLIAM WILSON, of Banbury, in the county of Oxford, Engineer.	Improvements in machinery or apparatus for manufacturing parts of brooms and brushes.
2249	,,	ARTHUR ALBRIGHT, of George Street, Edgbaston, in the county of Warwick.	Improvements in the manufacture of lucifer matches, and of boxes suitable for containing the same.
2250	,,	ROBERT FROST, of Steam Mills, Chester	Improvements in the manufacture of flour.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2252	25th Sept., 1856.	MATTHEW ANDREW MUIR, of Glasgow, in the county of Lanark, North Britain, Machinist, and WILLIAM JAMES WALKER, of the same place, Manufacturer.	Improvements in machinery or apparatus for sizing or dressing yarns or threads.
2254	26th Sept., 1856.	CLAUDE LANGLOIS, of Bath, in the county of Somerset, Artist.	Improvements in photography.
2256	,,	MARIUS PELLEN, of the firm Pellen and Co. of No. 63, Rue d'Anjou, St. Honoré, in the city of Paris, Merchants.	Rendering impermeable by gas caoutchouc, gold beater's skin, paper, gauze, and similar materials used for things adapted to receive an ascending force, such as balloons, aerostatic machines, toys, &c., &c., by the application of a peculiar varnish.
2257	,,	CHARLES RENSHAW, of Dukinfield, in the county of Chester, Engineer and Millwright.	Improvements in squeezing rollers, applicable to machinery or apparatus for pressing or partially drying yarns and woven fabrics.
2258	,,	WILLIAM HORSFALL, of the city of Manchester, in the county of Lancaster, Card Manufacturer.	An improvement or improvements in cards for carding fibrous substances.
2259	,,	GEORGE GOWER WOODWARD, of Kidderminster, in the county of Worcester.	Improvements in the manufacture of carpets.
2263	27th Sept., 1856.	GEORGE NEALL, Wholesale Brewer, of Northampton.	An improved union gas stove for lighting and heating.
2264	,,	JOHN BOYD, of Ashbocking, in the county of Suffolk, Gentleman.	Improvements in letterpress printing machines.
2269	,,	JOSEPH EDWARDS, of Liverpool, in the county of Lancaster, Provision Dealer.	An improved ships' log.
2270	,,	JOHN ROTHWELL, of Park Hill, Bolton, in the county of Lancaster.	A certain composition and preparation to promote the ignition and combustion of coke, coal, and other combustible substances in stoves, furnaces, and grates.
2274	29th Sept., 1856.	CHARLES JOHN CARR, of Belper, in the county of Derby, Engineer.	Improvements in operating hammers and stamps.
2275	,,	JAMES NOBLE WARD, of the Army of the United States of America.	An improvement in the construction of self-priming fire-arms.
2277	,,	MATTHEW HICKSON, of Salford, near Manchester, in the county of Lancaster, Gentleman.	Improvements in waterproofing certain woven fabrics.
2278	,,	DAVID THOM and GEORGE ALDCROFT PHILLIPS, both of Manchester, in the county of Lancaster, Soap Manufacturers.	Certain improvements in apparatus used in the manufacture of soap.
2280	,,	JOHN LORD, of Rochdale, in the county of Lancaster, Flannel Manufacturer.	Certain improvements in the process of separating or recovering animal wool or silk from cotton and woollen, or from cotton and silk or other mixed fabrics, whereby the animal wool or silk is rendered capable of being again employed, which said improvements are also applicable to wool in its unmanufactured state.
2281	,,	HENRY JENKINS, of Birmingham, in the county of Warwick, Die Sinker, Stamper, and Piercer.	Improvements in the manufacture of buckles and other dress fasteners.

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2282	29th Sept., 1856.	GEORGE TOMLINSON BOUSFIELD, of Sussex Place, Loughborough Road, Brixton, in the county of Surrey.	An improvement in the manufacture of artificial stone.
2283	,,	CHARLES WILLIAM RAMIÉ, of Pimlico, in the county of Middlesex.	Improvements in constructing the permanent ways of railways.
2285	30th Sept., 1856.	THOMAS ARTHUR DILLON, of the Registry of Deeds Office, in the county of the city of Dublin, and JOHN GRAY, M.D., of 4 and 5, Princes Street, in the county of the city of Dublin, Esquires.	An improved means for making signals on railway trains between the guard and driver respectively, and between the passengers and guard and driver, and of giving notice to the guard and driver in case of the accidental severance of the parts of a train, which invention is applicable also to steam ships, factories, and other places where it may be requisite to communicate with distant points.
2288	,,	WILLIAM GOSTWYCK GARD, of Calstock, in the county of Cornwall, Engineer.	Improvements in bits for boring and sinking.
2289	,,	DUNCAN BRUCE, of Paspebiac, in the county of Bonaventure, in the province of Canada.	Making a concentrated animal manure.

FOREIGN PATENTS.



HANOVER.*

List of Patents of Invention Delivered between the 1st July and 30th September, 1859.

(Communicated by the Hanoverian Government.)

(For previous List, see No. 580 of this Journal.)

299. Schulte, of Berlin, for "An apparatus for obtaining sulphur and sulphuric acid from plaster."—5 years.—Dated 6th July, 1859.

300. Henry Justinian Newcome, of Sherby, for "An apparatus for heating, warming, and drying, consisting of a system of pipes, which are separated from the furnace belonging thereto."—5 years.—Dated 16th July, 1859.

301. Henry Burden, of Troy, U.S., for "A machine for making horse-shoes."—5 years.—Dated 11th July, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 4th October, 1859, and each bearing that date.

No. 25,612. James G. Abbott, and Archilus Lawrence, of Philadelphia, Pa., for an "Improvement in stoves."

"We claim the combination of the ring R, perforated door frame F, extending down over the ring and slide B, with the stove cylinder, as set forth."

No. 25,613. J. C. Adams, of Greensburg, Ind., for an "Improvement in corn planters."

"I claim the arrangement of the clevis device *f*, on the rear of the pole *s*, when said pole is received through the mortise in the bar, and when the said bar is made adjustable by means of bolts and bolt holes through its ends, and through the frame pieces A, said being made so as to clasp together cross pieces *c* and c^1, all in the manner and for the purpose set forth."

No. 25,614. Charles Alden, of New York, N.Y., for "Improvements in apparatus for evaporation."

"I claim the agitator so constructed as to be capable of acting as a blower as well as a stirrer, substantially as set forth herein."

No. 25,615. Albert J. Allen, of Buffalo, N.Y., for an "Improved steam gauge."

"I claim first, capsule G, of peculiar construction, having the steam admitted at one side, and through the centre of that side, and using the flexibility of both sides (such capsule being made of a permanently elastic metal, and not injuriously oxidized by steam or water, preferring for that purpose, the metal used in making melodeon reeds), in combination with fulcrum block F, lever H, spring P, rod O, rod I, swivel block J, radius bar L, and segment K, having tail piece *k*, pinion N, index pointer E, dial plate D, and friction pressure spring M, substantially as shown and described. Second, I claim radius bar L, in combination with rod I, swivel block J, segment K, having tail piece *k*, pinion N, index pointer E, and dial plate D, having increasing divisions on its face, substantially as shown and described. Third, I claim swivel block J, in combination with rod I, radius bar L, and segment K, having tail pin *k*, substantially as shown and described."

No. 25,616. John P. Allen, of Midville, Geo., for an "Improvement in seed planters."

"I claim the arrangement and combination of the frame E, provided with the armed hub *g*, the hopper F and its bar G, in connection with the adjustable bar I, provided with the self-adjusting covering plate or bar K, substantially as and for the purpose set forth."

No. 25,617. Thos. Armitage, of Philadelphia, Pa., for an "Improvement in feed water apparatus for steam boilers."

"I claim the vessel C, with its valve *c*, opening inwards, in combination with the pipes D, E, F, H, and I, with their respective cocks, and the drum B, the whole being arranged in respect to the boiler, substantially as and for the purpose herein set forth."

No. 25,618. Henry F. Baker, of Centreville, Ind., for an "Improvement in mole plough."

"I claim the arrangement and combination of the screw E, key F, knife C, share G, and revolving packer H, as and for the purpose herein shown and described. I also claim the employment of a revolving mole or packer H, substantially as and for the purposes herein shown and described."

No. 25,619. H. H. Baker, of New Market, N.J., for an "Improvement in weeding hoes."

"I claim the arrange of the piece B, standard D, plate A concave E, and ferrule F, as described, as and for the purposes substantially as above set forth."

No. 25,620. O. D. Barrett, of Cleveland, O., for an "Improvement in rotary harrows."

"I claim the arrangement of the hooks H, H, draught bars G, G, centre pins (B, B^1), (B, B^1), arms F, F, and spring-joint D, in relation to each other and to the harrows, as and for the purpose herein set forth."

No. 25,621. Wm. W. Batchelder, of New York, N.Y., for an "Improvement in construction of vapor burners."

"What I claim, is, arranging the orifice of discharge *i*, from the retort, in reference to the open end of the gas pipe *d*, so that the sediment from the orifice cannot fall into said pipe, nor remain about and choke the orifice, substantially in the manner and for the purposes set forth. I also claim the entire disconnection of the pipe *d*, and retort, as set forth. I also claim the combination of the circular form of the gas pipe *d*, with the horizontal discharge, as set forth. I also claim connecting the retort with the ascending part of the gas pipe, and near the burner, as set forth."

* For the Hanoverian Patent Law, see No. 231 of this Journal.

No. 25,622. MAHLON BONNELL, of New York, N.Y., and ISAAC I. COLE, of Tappan, N.J., for an "Improved machine for cutting veneers."

"We claim, first, the arrangement of the cams a, a^1, or their equivalents, in combination with the log carrier A, substantially in the manner and for the purpose specified. Second, the arrangement and combination of the log carrier A, with the tank M, or its equivalent, substantially as and for the purpose described."

No. 25,623. NATHL. BOURNE, of Peosta, Iowa, for an "Improvement in construction of evaporating apparatus."

"I claim the arrangement and combination with the evaporating pan A of a series of partitions and shutters, substantially as and for the purpose herein shown and described."

No. 25,624. B. B. BRIGGS, of Sharon, O., for an "Improvement in apparatus for laying drain tile."

"I claim the herein described clutches, consisting of the block or body, and the fingers H, H^1, H^{11}, and F, F^1, constructed and operating as set forth, in combination with the rope C, or its equivalent, and hook B, when these several parts are arranged and operated, substantially as specified."

No. 25,625. ROBT. C. BUCHANAN, of U.S. Army, for an "Improvement in knapsacks."

"I claim the combination of the body yoke and end pockets to the knapsack, the whole being combined and operating, substantially as is herein set forth."

No. 25,626. J. A. BUCKWATER, of Kimberton, Pa., for an "Improvement in brick moulds."

"I claim the expanding frame B^1, formed of the movable plates c, c^1, h^*, and fitted within the frame A^1, provided with the inclined or taper pendents d, and inclined slats L, L^1, the plates c, c^1, h^*, being connected respectively to the pendents d, and slats L^1, by the pins f, and staples g, substantially as and for the purpose set forth."

No. 25,627. ERASTUS TOUCY BUSSELL, of Covington, Ky., for an "Improved measuring faucet."

"I claim, operating the cut off, by a rotary movement of the exhaust chamber, which comprises the measure proper, whereby the fluid is first admitted into said measure, and then discharged therefrom. Also a graduated plunger rod, square or otherwise, so as to admit of stop notches on each side, independent of the others, into which a pin is forced by a spring, as set forth, or its equivalent."

No. 25,628. LYSANDER BUTTON and ROBT. BLAKE, of Waterford, N.Y., for an "Improvement in supporting the carriage bodies of fire engines."

"What we claim, is, the propping of fire engines, which are mounted upon springs by means of cams a, or mechanical equivalent thereof, so arranged and operated, as by lever power, to throw the weight of the engine from and upon the springs, substantially in the manner and for the purposes set forth."

No. 25,629. G. A. CLARK, of Farmington, Conn., for an "Improvement in fireplaces."

"I claim the within described arrangement of caliducts C, D, E, E, F, G, G, H, H^1, and C^1, when the same are applied to a fireplace, in the manner and for the purposes herein set forth."

No. 25,630. POWHATTAN ELLIS COLLINS, of Mobile, Ala., for an "Improvement in cotton gins."

"I claim an adjustable hopper, as described, for changing and regulating the feed of cotton to a gin, as set forth. I also claim, in combination with an adjustable and regulating hopper, the toothed cylinder D, for conveying the cotton from the hopper to the gining or saw cylinder, as herein set forth. I also claim the arrangement of the hopper, feeding tooth roller, saw and brush cylinders, as shown, so as to operate in connection with each other, in the manner described."

No. 25,631. GARRETT COOPER, of Jersey City, N.J., for an "Improved tray bolt."

"I claim the general arrangement of bolt A, shield B, nipple C, and plate of metal H, when said bolt shall effect its own spring, and when the said parts shall be arranged and operated in the manner described, and for the purpose specified."

No. 25,632. PEARSON CROSBY, of New York, N.Y., for an "Improved manner of hanging reciprocating saws."

"I claim connecting the two plates b, b, of the caps B by means of rivets d, and pins g, k, the ends of which are fitted in holes countersunk at the inner sides of the plates to admit of the vertical adjustment of the plates b, for the purpose set forth. I also claim encompassing the rivets d of the cap B by tubes or cases f, to form a bearing for the plates b, b, and prevent an undue pressure of the caps against the saw, so that the latter may be adjusted to compensate for wear, as specified. It being understood that I do not claim broadly the tubes or cases f, but only when used in connection with or applied to the caps B, for the purpose set forth."

No. 25,633. JOSHUA DAVIS and SARAH N. DAVIS, of Maskegon, Mich., for an "Improved bread and vegetable slicer."

"We claim the arrangement and combination of the adjustable slotted plates H, gauge I, rod h, spring J, and lever F as herein shown and described, so that the slice of bread shall be supported by the gauge until the stroke of the knife is almost finished, and so that the gauge I shall fall outwardly on the depression of spring J, all as set forth."

No. 25,634. WM. H. DAVIS, of Taunton, Mass., for an "Improved blind fastener."

"I claim the application to the catch of a box to secure it from getting out of place, and of the hook on the blind, a rest to prevent the blind from sagging, as herein described."

No. 25,635. ROBT. DICK, of Toronto, Canada, for an "Improvement in accountant labels for periodicals, &c."—Patented in Canada, 26th July, 1858.

"What I claim as my invention is, the contrivance of keeping accounts current in printed form by the use of printer's type, or their equivalents, kept so arranged as to admit readily of all the re-adjustments which the currents of business may require, in manner, substantially as set forth. Based on this primary invention, I also claim the device of rendering or transmitting accounts thus, or substantially thus kept in type, by sending printed impressions taken therefrom, though the particular form of sending may not be mine. While, at the same time, I claim in the broadest and fullest sense the special mode and form herein set forth by the use of the machine herein described, as constituted by the combination of fluid vessel, reel, apron movement, and cutter stamp, which machine I also claim with all the modes indicated for operating the same, and in connection with the recited claims I thus formally make. I also claim all other means and appliances, substantially the same as those herein claimed or intended to be claimed."

No. 25,636. MASON H. FORD, of New York, N. Y., for an "Improvement in borer for excavating mud, &c."

"I claim, first, the construction of revolving excavating scoops, provided either with openings and wings or flanges on its sides, capable of opening and shutting or so constructed that part of the sides may be opened and act in that position as wings or flanches, by which the dirt, mud, or sand is, during the revolving of the scoop, thrown into the inside of the scoop, as described. 2nd, I claim the manner of attaching scoops to the shafts, so that the same will be made to turn with the shaft when the same is revolving, and at the same time capable of being raised above the surface of the water, when filled, for the purpose of being emptied without requiring to raise the shaft, substantially as described."

No. 25,637. PETER GETZ, of Lancaster, Pa., for an "Improvement in cooking stoves."

"I claim the specific arrangement of the boilers O, H, H, drum head oven C, and their combination in manner as set forth, for the purpose specified."

No. 25,638. WM. D. GUSEMAN, of Morgantown, Va., for an "Improvement in weighing scales."

"I claim the triangular recess cut out on the underside of the journals of the pendulum drum or shaft to enable said

drum to swing or roll on its axis on the upward pointing knife edges g, substantially in the manner and for the purpose herein described. I also claim, in combination with an upward pointing knife edge or roller, or pendulum drum, the journals of which are formed with triangular recesses, and a counterpoise weight, or its equivalent, vibrating below the centre of the drum or roller, substantially in the manner and for the purpose herein described, and this I claim whether the counterpoise be adjustable on its lever or not."

No. 25,639. Henry Hays, of New York, N. Y., for an "Improved stave machine."

"I claim dressing staves by a continuous operation, regardless of length or thickness, by the combined action of the feed rollers c, d, and cutters w, v, when said parts are arranged as set forth, to remove a shaving from the outer side of the stave under all circumstances, and split out, more or less, from the inner side to reduce the stave to an uniform thickness, as specified."

No. 25,640. Joseph Harrison, jr., of Philadelphia, Pa., for an "Improved steam boiler."

"I claim the construction of a boiler of distinct globular or spherical parts single or in groups, substantially as above described, united in the manner herein-before specified, or any other analogous thereto, and wherein the strength of the globular form of such parts is common to the entire structure. This claim being intended to include not true spheres only but elliptical, conical, polyhedral, or any other analogous forms, also, where the results, looking to strength and construction of the boiler, are substantially the same as those herein enumerated. I also claim the employment, as units of construction, as herein-before explained, of separate chambers of cast iron or other metal of uniform size and shape, substantially as described, to be used as wanted, wherewith boilers of different forms and dimensions may be built up, being united together in the manner herein-before specified, or any other analogous thereto. Both of the above claims involve an outside casing for the particular construction with furnace or furnaces, substantially as herein-before described. It is not, however, my intention to confine myself to any special form of boiler or mode of casing the same."

No. 25,641. Joel Haines, of West Middleburg, O., for an "Improved device for connecting the panels of portable field fences."

"I claim the jointed link J for connecting the ends of the panels, so arranged that by using a tapering key in the link the angle of a zig-zag fence may be made more or less obtuse as required, to make the fence stand firm in the position in which it is placed."

No. 25,642. W. M. Henderson, of Baltimore, Md., for an "Improvement in pumps."

"I claim the two-ball-valve cages with the suction valves in their interior, attached to the extremity of a central perforated tube, or its equivalent, in combination with the waterways and discharge valve, when constructed and operated, substantially in the manner and for the purposes set forth."

No. 25,643. Thompson Hersee and Pierre Jos. Bourgnon, of Buffalo, N. Y., for an "Improvement in faucets."

"First, we claim the relative arrangement of the valve H, chamber F, and spherical part D, in combination with the plug B, said valve having a lifter K and stem L, and the whole operating substantially as described. Second, the combination and arrangement of the lifting rod (N), valve (o), tube (P), and pipe (4), with the cross piece (L), for the purpose of ventilating the barrel at each draught, substantially as described."

No. 25,644. John B. Holmes, jr., of New York, N. Y., for an "Improved curtain fixture."

"I claim the spring d, in combination with the roughened V-shape grooved pulley b, an endless cord or band b^1, said parts being arranged to operate in relation to each other as specified. I also claim the brackets c, c^1, provided with the centre pins 1, entering the roller ends b, b^2, in the manner and for the purposes specified. I also claim forming the bracket c with the slot and opening 3, and the bracket c^1 with a hook-shaped slot 2, to afford opportunity of removing the whole of the parts without having to draw the screws or nails passing through said brackets, as specified."

No. 25,645. Lewis Hover, of Flushing, N. Y., for an "Improvement in signal lanterns."

"I claim the arrangement and combination with the case A and lamp C of the metalic cylinder D, and glass cylinder E, substantially as and for the purpose herein shown and described."

No. 25,646. Job F. Howland, of New York, N.Y., for an "Improved tool for cutting gas pipe."

"I claim the arrangement of a stationary iron frame with a slot in it, which terminates in a conical form at one end, in combination with a sliding jaw, having a V-shaped tongue, and with an adjustable sliding cutter, substantially as and for the purposes set forth."

No. 25,647. J. W. Howlett, of Greenboro', N.C., for an "Improved mode of disinfecting feathers."

"I claim the injection of combined steam and chlorine gas among the feathers, substantially as herein shown and described."

No. 25,648. B. C. Hoyt, of Port Washington, Wis., for an "Improved vegetable cutter."

"I claim the arrangement of the cutting box upon a vibrating lever C, when the lever is supported by a spring E, actuating arm D, for keeping the whole in an elevated position, as herein above set forth. I also claim the combination of slide H, angular slotted box K, and vertical cutters J, arranged and operating, substantially in the manner and for the purposes herein set forth."

No. 25,649. Rameth Hussey and Uriah Thornburgh, Sr., of Walnut Run, O., for an "Improvement in mole plough."

"We claim suspending the plow beam that carries the mole to the plow frame by means of ropes or chains, connecting its ends to one capstan, in combination with suitable catches for holding it at any adjusted height thereon, the whole being arranged in the manner and for the purpose herein set forth and explained. We also claim, in combination with the rotary mole, suspending the plow beam by both its ends to ropes or chains, which connect with a common capstan on the plow frame, in combination with racks and pawls, for holding said beam when adjusted, the whole being arranged for the purpose and substantially in the manner herein stated."

No. 25,650. Isaac E. Jones, of Cincinnati, O., for an "Improvement in spark arresters."

"I claim the arrangement of the tank (A, A^1), wind wheel (g), and agitator (k), with reference to the receiving trunk (F), and valve l, all being constructed and arranged to operate conjointly, as herein described, and for the purposes set forth."

No. 25,651. Martin C. Kilgore, of Washington, Iowa, for an "Improvement in rotating harrows."

"I claim the arrangement and combination of the windlass E, arms I, socket N, collar J, harrow P, and spindle K, as and for the purpose herein shown and described."

No. 25,652. H. B. Knowles, of Providence, R.I., for an "Improved attachment to treadles of sewing machines."

"I claim the employment of a yielding adjustable rod, having a cross-head with hooks at its upper end, in combination with a shackle bar, crank shaft and treadle, substantially as and for the purposes set forth."

No. 25,653. Philip Koch, of New Haven, Conn., for an "Improvement in punching metals."

"I claim, 1st, the employment or use of a series of arbors to which punches or shear blades are attached, fitted in a rotating or adjustable head d, when said head is connected with an arbor C, having a plate c attached, provided with bolsters c^1, and shear blades f, corresponding with the punches and shear blades of the head, substantially as and for the purpose set forth. 2d, the means employed for actuating the yoke H, and consequently the arbors e, to wit, the adjustable shaft K, provided with the eccentric J, pin w, fitted within the block L of yoke H, the adjustable shaft P, provided with the lower crank r and the recess v in the back part of plate o, to receive pin w, substantially as and for the purpose set forth."

No. 25,654. E. D. Lee, and Z. W. Lee, of Blakely, Geo., for an "Improvement in ploughs."

"We claim the arrangement of the peculiar curved clevis I, beam A, curved rod E, bar D, band G, wedge H, shank (*f*), projection (*h*), and share F, as herein specified, for the purpose set forth."

No. 25,655. Levi E. Lincoln, of Lowell, Mass., for an "Improvement in safety apparatus for steam boilers."

"I claim the application of a low-water alarm to more than one boiler (or to one), by means of a two or more legged tube, a simple or a compound syphon, in such manner that said tube shall keep said alarm charged with water, when all its pendent ends are covered by water, and shall cause said alarm to be supplied with steam when any one of its pendent ends is exposed to steam, substantially as in this specification set forth and described."

No. 25,656. W. T. Littlejohn, of Kalamazoo, Mich., for an "Improved mangle."

"I claim the arrangement of the levers D, D, with roller C at their upper end, the spring F, bar G, connected to the treadle I by the rope H, in combination with stationary roller B, substantially as and for the purpose set forth."

No. 25,657. Cornelius Mahoney, of New York, N.Y., for an "Improvement in musical notation for the blind."

"I claim the combination of letters and characters, or notes in embossed print, so as to represent music for the blind, substantially as set forth."

No. 25,658. Newton S. Manross, of Bristol Conn., for "Improvements in valves for retarding and arresting the flow of gases."

"I claim the use of a recurved or V-shaped tube or passage having its lower part connected with a well or reservoir containing quicksilver, which is made to rise within the tube by means of a plug or other equivalent pressure, substantially in the manner and for the purpose herein specified. I also claim the combination of such recurved tube closed by quicksilver, with the regulating apparatus, consisting of a tapering shoulder and movable rod, secured from leakage by passing through the quicksilver."

No. 25,659. H. Marshall, of Cincinnati, O., for an "Improvement in coffins."

"I claim the new article of manufacture herein named, to wit, a coffin having its bottom, ends and sides, wholly constructed of corrugated sheet metal, which is rolled or stamped into proper form, and surrounded at the upper edge of its body with a wrought or cast iron frame which serves as a brace to the body, and a holdfast for screws, substantially in the manner and for the purpose herein described."

No. 25,660. Nathan B. Marsh, of Cincinnati, O., for an "Improvement in hydrants."

"I claim the arrangement in connection with the main casing G, discharge pipe S, and air chamber E, of a hydrant of the upper and lower plunger or valve chamber A, C, made in one piece F, upper plunger or valve D, when composed of parts *k*, *l*, *m*, *n*, *r*, and lower conical guide and stop, plunger composed of parts B, *h*, *i*, the whole being constructed, arranged and used together in the manner and for the purpose herein described."

No. 25,661. J. Plympton Marshall, of Millbury, Mass., for an "Improvement in breech-loading fire-arms."

"I claim, 1st, the combination of the lock bolt (of the movable breech) or its equivalent, and the discharging lock of the arm with intermediate parts for the purpose above set forth. 2d, arranging the lock for the tape primers in the manner above described for the purpose specified."

No. 25,662. Edwin May, of Indianapolis, Ind., for an "Improvement in the construction of prisons."

"I claim, first, the angle door D, in combination with the safe lock or bolt I, when constructed and operated substantially as set forth. Second, the safe J, containing the drum (*p*), and bolt I, and being held by the outer door C, when constructed and operated substantially as and for the purpose set forth. Third, the endless chain or rope (*e*), in combination with the levers (*d*), when constructed and operated substantially as and for the purposes set forth. Fourth, the combination and arrangement of the levers (*b*), box (*a*), and bolts or lugs (*s*), when operated from without the grating (*i*), substantially as and for the purposes set forth."

No. 25,663. Edwd. Maynard, of Washington, D.C., for an "Improvement in back sight for fire-arms."

"I claim the device as set forth, viz: the grooved cylindrical end of the sight carriage, in combination with a spring bolt or pin of such form that it shall fall into the grooves, and bear against their two sides, and yet not touch the bottoms of the grooves, so that as it wears it will still press on the sides of the grooves and hold the carriage firm in either of its positions. 2ndly, I claim the device as set forth, of placing the spring and its bolt or pin within the stock or breech of the gun, for its more perfect protection from wet and damage by accident, the opening through which the pin acts, being susceptible of being closed with oil or packing."

No. 25,664. Edwd. Maynard, of Washington, D. C., for an "Improvement in the nipples of fire arms."

"I claim the permanent union of a cap or nipple (*a*) with the closed end of a tube (*b*), whose open end has screw threads formed within it, by which I am enabled to combine the said nipple and its tubular seat with the abutment (*d*) of the breech piece of a fire-arm by means of a transverse perforation in said abutment for the reception of the tubular nipple seat, and a nick-headed screw (*c*) inserted into the left-hand end of said perforation, and working into the screw threads in the open end of said tubular nipple seat, substantially as herein set forth."

No. 25,665. John McCluskey, jr., of South Boston, Mass., for an "Improvement in skates."

"I claim the jointed heel-strap C, as set forth, in combination with the toe-strap B, when the latter is made longitudinally adjustable upon the runner A, substantially as specified."

No. 25,666. Wm. Howard Mitchell, of San Francisco, Cal., for an "Improvement in window-sash supporter."

"I claim, 1st, the roller A, arranged on an angular double jointed arm B, B, C, C, so as to have slight play up or down between two stops E, G, accordingly as it is operated upon by a spring F or the weight of the sash N, substantially as and for the purposes set forth. 2nd, the combination of the angular double-jointed arm B, B, C, C, spring F, thumb piece H, friction roller A, and semicircular recess *m*, in the window frame, substantially as and for the purposes set forth."

No. 25,667. Mortimer Nelson, of New York, N. Y., for an "Improved gold washer."

"I claim, 1st, the combination of a series of concave plain pans with a series of convex riffled pans, said pans all being arranged on the same vertical shaft, substantially as and for the purposes set forth. 2nd, the arrangement of a horizontal cam wheel, ball, horizontal friction roller, two bevel wheels, a rising and falling driving shaft, and a collar on the vertical shaft for operation together, substantially in the manner and for the purposes set forth. 3rd, the combination of a revolving perforated platform or grating with a non-revolving but yielding raking device, substantially as and and for the purposes set forth. 4th, the combination of the stationary case with the revolving perforated platform, raking device, and the horizontally revolving pans, substantially as and for the purposes set forth."

No. 25,668. Nelson Orcutt, of Binghamton, N. Y., for an "Improvement in composition for soap."

"I claim making soap from untried or unrendered tallow or grease, and the other ingredients herein named, the ingredients being in the proportions as herein stated."

No. 25,669. Lewis Pagin, of Elmore, O., for an "Improved combined table and clothes dryer."

"I claim a combined table or stand and a clothes dryer, composed substantially of a table or stand with a reversible top and a box, drawer, or recess, and two or more jointed arms that will fold up and lie within said box, drawer, or recess, the whole being combined and arranged for the purpose set forth."

No. 25,670. Benjn. S. Pardee, of Mount Carmel, and Thos. Rawling, of New Haven, Conn., for an "Improved upholstery nail."

"What we claim as a new article of manufacture is, the paper-headed nail or tack, constructed substantially as herein described."

No. 25,671. Seneca Pierce and Frederick F. Beardsley, of Castle Grove, Iowa, for an "Improvement in composition for tanning."

"What we claim is, a composition for tanning, made of terra japonica alum, glauber salts, and saltpetre, in the proportions and manner herein set forth."

No. 25,672. Josiah W. Prentiss, of Pultney, N. Y., for an "Improved mode of restoring rancid butter."

"The particular improvement which I claim as having been originally and first invented by me, is, the mode described of restoring rancid butter in the firkin by removing the hoops so as to open the joints, enclosing it in a bag or other texile fabric, and then surrounding the whole with charcoal, substantially as herein-before described, and for the purpose set forth."

No. 25,673. James Parinton, jr., of Lynn, Mass., for an "Improved machine for lasting boots and shoes."

"What I herein claim is, the clamps A, A, A, A, in combination with the slides B, B, B, and C, and for the purposes herein specified, said clamps and slides being carried to their place by their levers I, I, I, I, and J, J, J, J, or their equivalents. I also claim the opening and closing slide C, and Figure 2, also the roughing or cutting slide D, Figure 3, for the purposes and as herein described."

No. 25,674. Edward A. L. Roberts, of New York, N. Y., for an "Improved lathe chuck."

"I claim the application and use of the ball and socket joint, in combination with the mandrel or chuck of lathes, substantially as and for the purposes set forth and described."

No. 25,675. Christian Ropp, of McLean County, Ill., for an "Improvement in corn planters."

"I claim the arrangement of dog wheel P, levers u^{II}, and u^{III}, stops u and u^{I}, with stops f, springs s, bent rods g, and feed wheels F, F^{I}, the whole being constructed substantially as and for the purpose set forth."

No. 25,676. O. Sage, of Wellington, O., for an "Improvement in cheese vats."

"I claim the combination of the furnace D, and smoke pipe e, with the open and curved bottom b^{1} of the water box b, pipe E, equalizer G, and milk box c, said parts being constructed, arranged, combined, and operating in relation to each other, substantially as and for the purposes set forth."

No. 25,677. Jacob Seebold, of New Berlin, Pa., for an "Improvement in grain separators."

"I claim attaching the separator to the thresher by rocking frames e and f, in combination with wheel W, rod d, slotted arm b, and spring s, for producing its reciprocating movement, substantially as described."

No. 25,678. Saml. R. Seibert, of Munising, Mich., for an "Improved surveying instrument."

"I claim constructing the Y's or supports of the telescope in a surveying instrument, as set forth, also constructing a clamping pinion, in the manner and for the purposes as herein described."

No. 25,679. J. H. Shireman, of East Berlin, Pa., for an "Improvement in dividers for harvesters."

"I claim the combination of the adjustable case B, with the stationary horizontal dividing point A, the parts being constructed and arranged in the manner and for the purpose described."

No. 25,680. Thos. P. Sink, of Fairton, N. J., for an "Improvement in oyster dredges."

"I claim the arrangement and combination of the chuck or block A, and its pulley B with the roller E, the respective parts being formed and operating substantially in the manner and for the purposes above set forth."

No. 25,681. Seymour Smith, of Sharon, Conn., for an "Improved saw-set."

"I claim the mill saw-set herein described as a new article of manufacture, the several parts A, B, and F, being constructed and arranged substantially in the manner and so as to be operated as herein set forth."

No. 25,682. Leonard Snider, of Indianapolis, Ind., for an "Improvement in covering coffins."

"I claim using and applying flook as a covering for coffins, whether the same is prepared or secured, or in the manner herein set forth, or in any other manner substantially the same."

No. 25,683. Charles L. Stacy, of Cincinnati, O., for an "Improvement in hydrants."

"I claim the relative arrangement of the cup formed discs F, G, and G^{III}, and the apertures K and L, adapted in the manner set forth, to form a chamber I, closed on all sides (with the exception of the ingress aperture K), while the hydrant is open for the purpose of expanding the flanges f and g, and upon the closing of the hydrant to uncover the aperture L, and thereby empty the discharge pipe C."

No. 25,684. James E. B. Stuart, of Wytheville Va., for an "Improved method of attaching sabres to belts."

"I claim the attachment hook H, in combination with the ring O, P, or its equivalent attached to the waist belt, as indicated in the drawing M, the whole being constructed and operated substantially in the manner and for the purposes set forth."

No. 25,685. W. H. Stuart, of Millington, Md., for an "Improvement in seed planters."

"I claim, first, a double corn planter, the parts of which are constructed, combined, and arranged to operate in relation to each other, as described. Second, connecting the two independent sets of valves by means of that flexible connection H, in combination with single operating chain or cord H^{1}, as and for the purposes set forth."

No. 25,686. H. K. Symmes, of Newton, Mass., for an "Improvement in construction of gas burners."

"I claim the combination with the inverted cup D, and tube C, and the quicksilver basin or basins, or their equivalents forming a movable connection between the base and tip of the burner, operating as described, of the pawl-like rod or its equivalent, attached to the cup, and a rest for the said rod attached to the base of the burner, the whole operating as described, to shut off the gas from the tip by the temporary increase, and subsequent reduction of the pressure in the pipes."

No. 25,687. George S. Tiffany, of Palmyra, Mich, for an "Improvement in tile machines."

"I claim the extension of the flanged feeding shaft C, so as to form a revolving core C^{1}, operating substantially as herein shown and described."

No. 25,688. George W. Tolhurst, of Liverpool, Ohio, for an "Improvement in corn shellers."

"I claim the flexible hinged apron, in combination with the disk B and flange-wheel D, when the several parts are constructed and arranged for operation, in the manner described, for the purpose specified."

No. 25,689. Philip Ulmer, of New York, N.Y., for an "Improved spring bed bottom."

"I claim the method herein described, of connecting the spring b, or any equivalent means by which the same is secured in place by contact between compressing surfaces, substantially in the manner and for the purposes set forth."

No. 25,690. Rufus M. Varner, of Oxford, Miss., for an "Improvement in corn planters."

"I claim the arrangement of the table (r), delivering tube (h), furrow plow (j), feeding disc (g), hopper (f), all attached to the rear end of the tongue and placed between and subject to the action of the straps and the springs, as here described, and in connection therewith. I claim the combination of the spaces (p) of the hoppers side, with the india-rubber strip, the beveled edge of the hoppers bottom and the gonged holes of the feeding disc, as and for the purposes set forth."

No. 25,691. JOHN WAGNER, of Philadelphia, Pa., for an "Improvement in machines for hoisting ice."

"I claim, 1st, the combination of the slides, carriages, supporters and projections on the chutes, arranged and operating in the manner and for the purpose herein before specified. 2nd, the antifriction rollers y, y, y^1, &c. in connection with the slides, arranged and operating as herein-before specified. 3rd, the counterbalancing rope or chain and rollers K and K^1, in combination with the pulley R, and the slides S and S^1, operating in the manner and for the purpose as herein-before specified."

No. 25,692. KASIMER VOGEL, of Chelsea, Mass., for an "Improvement in sewing machines."

"I claim, first, the employment, in combination with two or more needles a, b, or their equivalents, which work together to perforate or pass from one side to the other of the cloth, or other material to be operated upon, and with suitable means of carrying a locking thread through the loops of the threads of those needles, of a thread conductor Y, so applied and operated, as to effect the interlacing of the threads of said needles on the opposite side of the material to that on which they are interlaced with the locking thread, substantially as described, whereby they are made to produce the different kinds of stitching represented in Figures 10, 11 and 12. Second, the employment of a movable needle plate K, containing two or more needle holes of different size, form, or arrangement, applied to the bed plate, or work plate of a sewing machine, in such a manner as to be capable of adjustment to bring either of its holes into position, for the proper needles to work in it, substantially as herein described."

No. 25,693. HENRY PRITCHARD, of Brooklyn, N. Y., for an "Improvement in guide rings for fishing rods."

"I claim the combination of the fixed ferrule f, and the the movable thimble (c), with its eye (d), constructed substantially as described for the porpose set forth."

No. 25,694. JOHN I. VINTON and EDWD. JOHN, of Ironton, O., for an "Improvement in furnaces."

"We claim the employment of reverberatory furnaces of the water, as herein described, when constructed and fitted in place, in the manner set forth."

No. 25,695. CHAPMAN WARNER, of New York, N.Y., for an "Improved clothes clamp."

"I claim the mode of securing between the buttons A and C the garment, or whatever else may be placed between them, by means of binding or wedging effect of the pin B, in the hole of button C, with the spiral spring D, as and for the purpose specified."

No. 25,696. A. L. WHIPPLE, of Elmira, N. Y., for an "Improvement in machines for trimming wall paper."

"I claim the manner of constructing the spool, with fixed rotating head D, and yielding head C, in combination with the movable bed B, for holding the roll firmly in the proper relative position to the knives, substantially as herein described."

No. 25,697. DAVID ZUG, of Shaefferstown, Pa., for an "Improvement in harvesters."

"I claim the combination of the brace V, with the gum elastic stuffing box P, and the supporting bar Y, when these several parts are constructed and arranged in the manner described, for the purpose specified."

No. 25,698. WM. BINKLEY, of Manchester, N. H., assignor to Saml. N. Bell, of same place, for an "Improvement in knitting machines."

"I claim the hollow cone Q, cut off elliptically, and with the parallel elliptical cam R, on its inner surface, together with the projection P on the lower side, supported by the shaft O, passing through the hollow shaft s, and attached to the arm Q, of the standard No. 3, or their equivalent, substantially as described, for the purposes set forth."

No. 25,699. WALDREN BEACH, of Baltimore, Md., assignor to himself and John L. Reese, jr., of same place, for an "Improvement in corn harvesters."

"I claim the vertically adjustable cutting apparatus C, in combination with rests R, R^1, lever L, jointed arms A, and spring f, operating substantially as and for the purposes set forth."

No. 25,700. A. D. BROWN, of Columbus, Geo., as signor to Sallie C. Brown, of same place, for an "Improvement in straw cutters."

"I claim the arrangement and combination of the yielding strips (a), constituting guard R, with the wheels D, sash L, and trough B, as and for the purpose herein shown and described."

No. 25,701. JAMES DRAPER, of New York, N. Y., assignor to himself and Saml. H. Dougherty, of same place, for an "Improvement in skeleton skirts."

"I claim the new manufacture of skeleton skirt herein described, in which the hoops B are secured by glue, or equivalent cement, between separately woven parts of the tapes, in contra-distinction to the stitched or clasped skirt, when the parts are woven together, as single tapes between the hoops, and separately, as distinct tapes, at the points where the hoops are received."

No. 25,702. NATHAN C. LEWIS, jr., of Boston, Mass., assignor to himself and Edwin Brace, of same place, for "Improvements in construction of dentist's chairs."

"I claim the combination of the adjustable body rest with the chair. I also claim the combination of the auxiliary, or elbow rest, and the body rest, applied to a chair. I also claim the mode of applying the body rest to the elbow rest, that is, by means of an adjustable arm c, applied and operating with respect to the elbow rest, as set forth."

No. 25,703. JAMES C. MILLER, of Irwin, O., and STILLMAN A. CLEMENS, of Rockford, Ill., and GILBERT H. CLEMENS, of Urbana, O., for an "Improvement in lining underground drains."

"We claim, first, the method of making covered field drains by lining the inside with hydraulic lime mortar or other suitable material. Second, a conducting tube connected with a coulter. Third, a forcing bar, with valve pistons attached, and working in a conducting tube. Fourth, a follower of less transverse dimensions than the mole to which it is attached, all substantially as described and for the specified purposes."

No. 25,704. JAMES MOLYNEUX, of Bordentown, N. J., assignor to the Bordentown Machine Company, for an "Improvement in rotary dredging machine."

"1, I claim the combination and arrangement of devices, substantially as set forth and described, for raising, lowering and holding the levers C, C, which support and carry the dredging wheel, as required. 2, I claim the rams on the dredging wheel for the purposes set forth, substantially as described. 3, I claim the chute hinged substantially as described, so that it may be raised when the bucket passes under it, and lowered to receive the contents of the bucket, substantially as described. 4, and, in combination with a hinged chute, I claim the arm e on the wheel B just before the bucket, for the purpose of raising the chute, and allowing the bucket to pass under it. 5, I claim a chute, arranged to traverse on ways, so as that it may be adjusted to the dredging wheel. 6, I claim the levers M, and links M^1, arranged to operate substantially as described, for the purpose of traversing the chute, as described for the purposes set forth. 7, I claim the traversing bars P, P, armed with picks, or chisels, and arranged to operate on the bottom of the river, in advance of the dredging wheel, substantially as described. 8, I claim the shaft and wipers, in combination with the traversing bars, carrying picks, chisels, &c., for the purposes specified, substantially as described."

No. 25,705. JOHN SLOAN, of Pittsburgh, Pa., assignor to himself and Eberhard H. Dierker, of same place, for an "Improvement in the construction of distilling apparatus."

"I claim, first, the combination and arrangement of the condensing worm or pipe (F), the wheels (h, i, and j), the receiving chamber (x), with the governor (g), and valve (o), for the purpose of regulating the quantity of steam in the heating pipe (d), as herein described, and for the purpose set forth. Second, the combination and arrangement of the chambers (A, B, C, and D), with the conducting pipes (e), when used in connection with the condensing worm or pipe (F), as herein described, and for the purpose set forth."

No. 25,706. ADOLPH STEMPEL, of Newark, N. J., assignor to himself and Owen McFarland, of same place, for an "Improved trace trimmer."

"I claim, first, the arrangement and combination of the vertically sliding spring bar C, laterally adjustable bed pieces D, D^1, and suspended curved cutters F, substantially as and for the purpose described. Second, in combination with the bed pieces D, D^1, and cutters F, I claim the adjustable jaws E, or their equivalents, arranged substantinlly as and for the purpose specified."

No. 25,707. DAVID L. STILES, of Rochester, N. Y., assignor to John M. French and Co., of same place, for an "Improvement in moulding stove covers."

"I claim the employment of the coniform plugs *d*, *d*, and pivoted thumb levers *f*, *f*, in combination with that portion of the pattern which forms the recess of the cover, substantially in the manner and for the purposes herein specified."

No. 25,708. WM. F. STEWART, of Patuxent Forge, Md., for an "Improvement in railroad car brakes."

"I claim the combination of the various parts of the apparatus herein described, when so constructed and arranged in relation to the means by which they are actuated, as to apply and release the brakes upon the whole train upon sections, or upon single cars, by the engineer, or by one or more of the brakemen, or by all or part of them, collectively or individually, the brake apparatus of each car or of each section being complete in itself, when the cars are uncoupled or the train divided into sections."

RE-ISSUE.

JAMES M. CLARK, of Philadelphia, Pa., for an "Improvement in flour bolts."—Patented 26th July, 1859.—Re-issued 4th October, 1859.

"1, what I claim is, the slide valves *d*, so arranged and operating with the apertures *e*, e^1, in the sides of the bolting chest, that either of these apertures can be opened or closed, or both closed when required for the purpose of turning the material as desired in either of three directions, as set forth. 2, I claim in combination with these valves the concave M, and scrapers d^1 upon the bolt, all arranged and operating as herein set forth."

DESIGNS.

E. J. CRIDGE, of Troy, N. Y., for a "Design for a box stove."

"I claim the ornamental design and configuration of stove plates, such as herein described and shown in the annexed drawings."

JAS. S. MCCURDY, of Brooklyn, N. Y., assignor to J. M. Myers, of New York City, for a "Design for the arms of sewing machines."

"I claim the ornamental design of the shape or configuration of the sewing machine arm, as represented."

GARRETTSON SMITH and H. BROWN, of Philadelphia, Pa., assignor to Hayward, Bartlett, and Co., of Baltimore, Md., for a "Design for stoves."

"We claim the design, configuration, and arrangement of the several ornaments in bas-relief, as herein described and set forth in the drawing as the design for stove patapsco cook."

ADDITIONAL IMPROVEMENTS.

ALEX. WM. and JAMES CAMPBELL, of Harrison, Ohio, for an "Improvement in corn planters."—Patented 28th June, 1859.—Additional Improvement, dated 4th October, 1859.

"We claim, 1st, the described arrangement of the weighted valve V, rod *v*, tappet *x*, wheel K, *k*, slides H, and tube D, for the purpose set forth. 2nd, in the described combination with a cam wheel K, *k*, crank shaft M, rod O, and rocking lever J, *j*, we claim the inverted arch yoke Y, *y*, constructed and operating as set forth."

WM. R. MUSSER and J. COLEMAN, of Lynchburg, Va., for an "Improvement in tobacco presses."—Patented 2nd February, 1858.—Additional Improvement, dated 4th October, 1859.

"We claim, 1st, the 'top plate' of the press, marked in two drawings as A and No. 5 A, in connection with the 'bottom plate' of said press, marked in drawings as *c*, used for retaining pressure, and forming the 'bed' of the 'main truck,' constructed as described. 2d, the 'groove nuts,' for raising and lowering the 'top plate' of the press without taking it from the 'bars,' as described."

EXTENSION.

WM. TRAPP, jr., of Dryden, N. Y., for "Improvements in barrel machinery."—Re-issued 1st October, 1845.—Re-issued 10th March, 1849.

"I claim, 1st, the combination of the slide rest *k*, guided in the manner set forth, with the tool L, for turning off the cask, constructed and arranged in the manner set forth. 2nd, I also claim the apparatus for chamfering, and howelling, and crozing, that is to say, the combination of the cylinder E, open at both ends, so that both ends of the cask can be worked off without changing; with the ring chucks O, for fastening the cask into the cylinder, and with the the tools as herein described, for chamfering and howelling. 3rd, I also claim the crozing tool V, with the changeable face plate *w*, as herein set forth. 4th, I likewise claim the combination of the stock *l*, cutter l^1, adjustable and gauge plate l^2, constituting the tool for turning and smoothing the outside of the cask, as above described and represented in Fig. 4. 5th, I likewise claim the peculiar construction of the tool for howelling the cask, as above described and represented at Fig. 9. 6th, I likewise claim the peculiar construction of the tool for chamfering the ends of the cask, as above described and represented in Figure 8. 7th, I likewise claim the mode of edging and jointing bilge staves for making barrels and other bilge work by the employment of a swing frame having a concave or convex bed, in or against which the stave is sprung and secured to the required bilge, in combination with the revolving edging saw and reciprocating straight jointer or either, whether the said swing frame for confining the stave in its bent position, and converging it to the edging saw and straight jointer, be constructed, arranged, and operated in the manner herein set forth, or in any other mode or manner that may be substantially the same, and by which analogous results shall be produced."

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No. 606. TUESDAY, OCTOBER 25, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1414. WILLIAM DONBAVAND, of the city of Manchester, in the county of Lancaster, Scale-beam and Weighing Machine Manufacturer, and DAVID CRICHTON, of the same place, Machinist, have given notice at the office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in looms for weaving."

As set forth in their petition, recorded in the said office on the 11*th day of June*, 1859.

1424. And OLIVER MAGGS, of Bourton, in the county of Dorset, has given the like notice in respect of the invention of "Improvements in washing machines."

1426. And CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the county of Lancaster, Soap Manufacturer, has given the like notice in respect of the invention of "A means of cleansing or purifying the 'Thames.'"

As set forth in their respective petitions, both recorded in the said office on the 13*th day of June*, 1859.

1433. And JOHN COWAN, of the firm of L. Cowan and Sons, of Barnes, in the county of Surrey, Soap Manufacturers, has given the like notice in respect of the invention of "An improved soap."

As set forth in his petition, recorded in the said office on the 14*th day of June*, 1859.

1452. And HENRY FRANCIS SMITH, of No. 4, Dale Street, in the city of Manchester, Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of driving straps or bands."

As set forth in his petition, recorded in the said office on the 16*th day of June*, 1859.

1457. And THOMAS ORRELL, junior, of Mill Hill, Bolton-le-Moors, in the county of Lancaster, Cotton Spinner, has given the like notice in respect of the invention of "Certain improvements in mules for spinning."

1459. And EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in treating and decomposing fatty substances."—A communication from abroad by Charles Leroy and Joseph Jean Marie Durand, both residing at No. 25, Route de Fontainebleau, at Chantilly, near Paris, in the empire of France.

1465. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improved means for assorting substances of different specific gravities."—A communication from abroad by Désiré Marchal, of Brussels.

As set forth in their respective petitions, all recorded in the said office on the 17*th day of June*, 1859.

1468. And JAMES COX, of Wenlock Road, City Road, in the county of Middlesex, Printing Press Manufacturer and Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cutting rags for paper makers."

1469. And ALFRED JEFFERY, of the Commercial Road, in the parish of Limehouse, in the county of Middlesex, Manufacturer, has given the like notice in respect of the invention of "An improved mode of giving rotary motion to projectiles fired from rifled fire-arms."

1471. And RICHARD HARPER, Lace Maker, and ROBERT STOKES, Lace Maker, and THOMAS WALKER, Clock Maker, each of Derby, in the county of Derby, have given the like notice in respect of the invention of "An improvement in the manufacture of chenille bonnet wreaths and bonnet feathers."

1473. And GEORGE JUBILEE PARKER, of Church Street, Stoke Newington, in the county of Middlesex, Carpenter, has given the like notice in respect of the invention of "A self-acting apparatus for giving alarm of fire, which is also useful in checking the same."

1475. And PAUL FRANÇOIS AERTS, formerly of Brussels, in the kingdom of Belgium, but now residing in London, England, Civil Engineer, has given the like notice in respect of the invention of "Improved apparatus for lubricating railway rolling stock, and the moving parts of machinery."

As set forth in their respective petitions, all recorded in the said office on the 18th day of June, 1859.

1481. And CHARLES LOUIS JOSEPH DIERICKX, Director of the Paris Mint, of the Hôtel des Monnaies, in the city of Paris, has given the like notice in respect of the invention of "Improvements in coining,"

1485. And WILLIAM ROWAN, of the firm of John Rowan and Sons, Engineers, of Belfast, in the county of Antrim, has given the like notice in respect of the invention of "Improvements in the generation of steam."

As set forth in their respective petitions, both recorded in the said office on the 20th day of June, 1859.

1496. And EBENEZER OLIVER, of King William Street, in the city of London, has given the like notice in respect of the invention of "Improved medicinal mixtures for the cure of rheumatism, tic-doloreux, lumbago, cramp, sciatica, and such like complaints."

As set forth in his petition, recorded in the said office on the 21st day of June, 1859.

1506. And JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the county of Gloucester, have given the like notice in respect of the invention of "Improvements in the manufacture of wheels for carriages and engines."

As set forth in their petition, recorded in the said office on the 22nd day of June, 1859.

1507. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "Improvements in machinery for the manufacture of bolts and rivets."—A communication from I. L. Vergniais, residing in Paris.

As set forth in his petition, recorded in the said office on the 23rd day of June, 1859.

1532. And ROBERT DICK, of the city of Toronto, in the county of York, and province of Canada, has given the like notice in respect of the invention of "Keeping accounts current in printed form, for addressing cards, circulars, papers, and periodicals of all kinds, with great rapidity, by the aid of a very simple machine, which is a constituent part of this invention."

As set forth in his petition, recorded in the said office on the 27th day of June, 1859.

1539. And WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement in variable cut-off gear for producing expansion in steam and other motive engines."—A communication from abroad by Ambrose Foster, Noah Sutton, and James Stephens, all of New York.

As set forth in his petition, recorded in the said office on the 28th day of June, 1859.

1559. And THOMAS BELL, of Plaistow, in the county of Essex, has given the like notice in respect of the invention of "Improvements in the manufacture of manure."

As set forth in his petition, recorded in the said office on the 30th day of June, 1859.

1573. And SAMUEL FISHER, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "Improvements in ordnance and projectiles."

As set forth in his petition, recorded in the said office on the 1st day of July, 1859.

1604. And CHARLES HAGAN, Clerk of Works, Tower of London, has given the like notice in respect of the invention of "Improvements in apparatus for curing smoky chimneys and preventing down draught."

As set forth in his petition, recorded in the said office on the 6th day of July, 1859.

1652. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in railway car seats and arm chairs."—A communication from abroad by Bernard Joachim La Mothe, No. 10, Rue Mogador, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 12th day of July, 1859.

2103. And HENRY WINTER, of Albion Place, Hackney, in the county of Middlesex, has given the like notice in respect of the invention of "A machine or apparatus for lifting and weighing loaded sacks and also merchandize."

As set forth in his petition, recorded in the said office on the 15th day of September, 1859.

2122. And THOMAS ELLIOTT, of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in lubricators especially applicable to steam engines."

As set forth in his petition, recorded in the said office on the 17th day of September, 1859.

2133. And RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in elevators or lifts for hotels, warehouses, and other structures."—A communication from abroad by Otis Tufts, of Boston, United States.

As set forth in his petition, recorded in the said office on the 19th day of September, 1859.

2170. And THOMAS BARNABAS DAFT, of Tottenham, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in coating metal conductors suitable for electric telegraphs."

2172. And JOHN TODD, of Kent Iron Works, Greenwich, in the county of Kent, Engineer, has given the like notice in respect of the invention of "Improvements applicable to screw propellers in the propulsion of vessels."

As set forth in their respective petitions, both recorded in the said office on the 24th day of September, 1859.

2190. And WILLIAM COLLINS, of Salford, in the parish of Manchester and county of Lancaster, Engineer and Brass Founder, has given the like notice in respect of the invention of "Improvements in stand pipes for hydrants."

As set forth in his petition, recorded in the said office on the 28th day of September, 1859.

2202. And CHARLES STEVENS, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, has given the like notice in respect of the invention of "An improved steam dredging boat."—A communication from aboad by Yollet Babin and Gâche Ainé, of Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 29th day of September, 1859.

2217. And BENJAMIN ATKINSON, of Rainham, in the county of Essex, has given the like notice in respect of the invention of "Improvements in railway brakes."

As set forth in his petition, recorded in the said office on the 30th day of September, 1859.

2267. And JOHN MACINTOSH, of North Bank, Regent's Park, has given the like notice in respect of the invention of "Improvements in the manufacture of flexible tubes."

2269. And JOHN MACINTOSH, of North Bank, Regent's Park, has given the like notice in respect of the invention of "Improvements in coating metallic conductors for electric telegraphs."

As set forth in his respective petitions, both recorded in the said office on the 5th day of October, 1859.

2277. And WALTER MACFARLANE, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for drawing off or discharging liquids, and in fountains, baths, and similar receptacles for liquids."

2283. And WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction and manufacture of casks, barrels, and such like vessels, and in the machinery or apparatus to be employed for such manufacture."—A communication from abroad by Jean De Lihatcheff, of Yaroslawl, in the empire of Russia.

As set forth in their respective petitions, both recorded in the said office on the 6th day of October, 1859.

2331. And THOMAS TWELLS, of the town and county of the town of Nottingham, Mechanist, has given the like notice in respect of the invention of "Improvements in machinery and apparatus connected therewith for embroidering or ornamenting woven, looped, or lace fabrics."

As set forth in his petition, recorded in the said office on the 12th day of October, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patent on which the Stamp Duty of £50 has been Paid.

(*To 21st October*, 1859.)

2480. GODFREY ERMEN, of Manchester, in the county of Lancaster, Cotton Spinner and Manufacturer, for an invention of "Certain improvements in machinery or apparatus for the finishing and treatment of yarns or threads."—Dated 22nd October, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 21st October*, 1859.)

655. ROBERT BOOTY COUSENS, of 50, Halliford Street, in the county of Middlesex, for an invention of "Improvements in machinery for cutting cork."—Dated 5th November, 1852.

Notices of Applications for Prolongation.

In the matter of Letters Patent for England, granted to JOHN DEARMAN DUNNICLIFF, of Nottingham, Lace Manufacturer, and WILLIAM BULL DEXTER, of the same place, Lace Maker, for "Improvements in the manufacture of warp fabrics," bearing date, at Westminster, the 24th day of December, 1845.

Notice is hereby given, that under and in pursuance of an Act made and passed in the 5th and 6th years of the reign of His late Majesty King William the 4th, intituled "An Act to amend the law touching Letters Patent for inventions;" of an Act made and passed in the 7th and 8th years of the reign of Her present Majesty Queen Victoria, intituled "An

Act for amending an Act passed in the 4th year of the reign of His late Majesty, intituled 'An Act for the better administration of justice in His Majesty's Privy Council, and to extend its jurisdiction and powers,' and of the 'Patent Law Amendment Act, 1852,'" THOMAS BALL, WILLIAM BALL, and JOHN WILKINS, all of Nottingham, Lace Makers, intend to petition Her Majesty in Council, praying Her Majesty to grant unto them a prolongation of the term of sole using and vending the invention for which the said Letters Patent were so granted as aforesaid: And notice is hereby further given, that an application will be made on the 22nd day of November, 1859, or so soon after as their Lordships shall be sitting and counsel can be heard, to the Right Honourable the Lords of the Judicial Committee of the Privy Council, to fix an early day for the hearing of the matters contained in the said petition; and all persons desirous of being heard in opposition to the prayer of such petition, are, on or before the said 22nd day of November, 1859, to enter a caveat at the Privy Council Office.

WATKINS, HOOPER, BAYLIS, and BAKER,
11, Sackville Street, London,
Solicitors for the Petitioners.

Notice is hereby given, that RALPH RADCLIFFE WHITEHEAD, JAMES HEYWOOD WHITEHEAD, and JOHN DICKEN WHITEHEAD, of Royal George Mills, Saddleworth, in the county of York, Manufacturers, intend to apply by petition under the statutes 5th and 6th William the Fourth, cap. 83; 2nd and 3rd Vict. cap. 67; 7th and 8th Vict. cap. 69; and of the Patent Law Amendment Act, 1852; and 16th and 17th Vict. cap. 117, to Her Majesty in Council, for a prolongation of the terms of sole using and vending the invention of "Improvements in the manufacture of epithems used for medical and surgical purposes," for which Her Majesty's Royal Letters Patent were severally granted to Alfred Markwick, respectively bearing date at Westminster, on the 20th day of May, in the ninth year of the reign of Her Majesty Queen Victoria, and in the year of our Lord 1846, and at Edinburgh, on the 27th day of October, in the ninth year of the reign of Her said Majesty Queen Victoria, and in the year of our Lord 1846, which said several Letters Patent have been assigned to and are now vested in the said intended petitioners: And notice is hereby further given, that the said Ralph Radcliffe Whitehead, James Heywood Whitehead, and John Dicken Whitehead, intend to apply by counsel to the Judicial Committee of the Privy Council, on Monday the 28th day of November now next, or if the Judicial Committee shall not sit on that day at the then next sitting of the said Judicial Committee for a time to be fixed for hearing the matter of the said petition, and that on or before the said 28th day of November next notice must be given of any opposition intended to be made to the said petition; and any person intending to oppose the said application, must lodge notice to that effect at the Council Office, on or before that day.—Dated 21st October, 1859.

W. and H. P. SHARP,
150, Leadenhall Street, in the city of London, Solicitors for the above-named Ralph Radcliffe Whitehead, James Heywood Whitehead, and John Dicken Whitehead.

Notice of Application for Leave to enter a Memorandum of Alteration.

In the matter of Letters Patents granted to ARTHUR PAGET, of Loughborough, in the county of Leicester, Manufacturer, for "Improvements in machinery or apparatus for the manufacture of looped fabrics, and in the manner of constructing the same."—Dated 2nd April, 1859.

Notice is hereby given, that the said ARTHUR PAGET has applied by petition to the Commissioners of Patents, according to the statute in that case made and provided, for leave to enter a memorandum of alteration of certain parts of the specification of the said Letters Patent.—Dated 12th October, 1859.

HUGHES and BLOODWORTH,
No. 17, Cross Street, Manchester.

HUGHES and SON,
No. 123, Chancery Lane, London,
Agents for the Petitioner.

REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of *2l. 3s. 11½d.*

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REPERTORIO di tutte le INVENZIONI munite di LETTERE PATENTI in INGHILTERRA dal 1617—1854 inclusivo, poste in ordine sotto il piu gran numero di capi, con riferenze alle INVENZIONI e SCOPERTI descritti nelle opere scientifiche di DIVERSE NAZIONI, classate dal Professore Schubarth. Dal Sig. B. Woodcroft.

Le opere straniere quì indicate possono esser consultate nella Biblioteca dei Commissari delle Patenti, e traduzioni in manuscritto vi possono ottenersi.

B. WOODCROFT,
Superintendent of Specifications, &c.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 22nd October, 1859.

Mornings - - - -	1026
Evenings - - - -	1627
Total - - -	2653

Since the opening of the Museum Free Daily (May 12, 1858,)—155,221.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

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In course of Publication, by Order of the Commissioners of Patents.

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PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 607. FRIDAY, OCTOBER 28, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1968. To ROBERT BESLEY, of Fann Street, Aldersgate Street, in the city of London, Type Founder, for the invention of "Improvements in machinery for printing and for numbering and perforating documents."—A communication from abroad by William Shaw, of Melbourne, in the colony of Victoria, Australia.

On his petition, recorded in the Office of the Commissioners on the 29th day of August, 1859.

2084. To WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the county of Middlesex, Engineer, for the invention of "Improvements in the permanent way of railways."

On his petition, recorded in the Office of the Commissioners on the 13th day of September, 1859.

2146. To GEORGE KENNEDY GEYELIN, Civil Engineer, of 462, Oxford Street, in the county of Middlesex, for the invention of "Improvements in machinery for making solid, hollow, and perforated bricks, also tiles, drain and socket pipes."

2150. And to GEORGE DANNETT ROBINSON, 15, Church Street, Islington, London, for the invention of "Improvements in apparatus for regulating the pressure of gas and other fluids."

On both their petitions, recorded in the Office of the Commissioners on the 21st day of September, 1859.

2176. To RICHARD KAY, of Busby, in the county of Renfrew, North Britain, Bleacher, for the invention of "Improvements in preparing and bleaching textile fabrics and materials, and in the machinery or apparatus employed therein."

On his petition, recorded in the Office of the Commissioners on the 26th day of September, 1859.

2196. To JOHN FORDHAM STANFORD, of No. 7, Denbigh Place, Pimlico, in the parish of Saint George, Hanover Square, in the county of Middlesex, Architect, for the invention of "An improved apparatus for giving warmth to the lower extremities and members of invalids and others when travelling, or in churches, chapels, theatres, rooms, carriages, and other similar places, and on ship-board, and also for airing carriages.

On his petition, recorded in the Office of the Commissioners on the 28th day of September, 1859.

2204. To THOMAS ALLAN, of Adelphi Terrace, in the city of Westminster, Civil Engineer, for the invention of "Improvements in applying electricity for telegraphic purposes, and in apparatus employed therein."

On his petition, recorded in the Office of the Commissioners on the 29th day of September, 1859.

2214. To EDWARD SONNEBORN, of Lüdge, in Westphalia, kingdom of Prussia, and now residing at 39, Finsbury Square, London, for the invention of "An improvement in the manufacture of cement."

On his petition, recorded in the Office of the Commissioners on the 30th day of September, 1859.

2230. To JOHN BAUGHAN, of Pimlico, in the county of Middlesex, for the invention of "Improvements in the manufacture of soap."

On his petition, recorded in the office of the Commissioners on the 1st day of October, 1859.

2236. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in treating clay, and in the manufacture of bricks, tiles, and other like articles, and in machinery employed therein."—A communication from abroad by Jean Marie Rabier, of Paris.

On his petition, recorded in the Office of the Commissioners on the 3rd day of October, 1859.

2252. To Frederic John Dove, of Studd Street, Islington, in the county of Middlesex, for the invention of "Iron clasped bonding plates for joists and other building purposes."

2256. To William George Sharp Mockford, of No. 67, Upper Thames Street, in the city of London, Merchant, for the invention of "Improvements in the manufacture of starch."

2260. To Thomas Henry Dodd, of Bessborough Place, Pimlico, Gun Maker, for the invention of "Improvements in portable apparatuses for the use of smiths, carpenters, and other workmen."

2262. To William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in blankets used for printing calicoes and other fabrics, and in the mode of washing or cleaning the same."—A communication from abroad by Seth W. Baker, of Providence Rhode Island, in the United States of America.

2264. To John Prichard, of No. 6, Whitehall, in the county of Middlesex, Esquire, for the invention of "Improvements in spurs."

2266. To James Webster, of Birmingham, in the county of Warwick, Engineer, for the invention of "An improved construction of spring for carriages and other purposes."

2268. To James Turpie, of North Shields, for the invention of "Improvements in the fore and aft gaff and boom sails of ships."

2270. And to George Long and James Archer, both of Landport, in the county of Hants, for the invention of "Improvements in the manufacture of manure."

On their several petitions, recorded in the office of the Commissioners on the 5th day of October, 1859.

2272. To John Peers Scott and Edward Scott, both of the city of Manchester, Agents, for the invention of "An improved instrument for boring and drilling."—A communication from abroad by Constantin Von Longinoff, of St. Petersburgh, in the empire of Russia.

2276. To Enoch Oldfield Tindall, of Scarborough, in the county of York, Engineer, for the invention of "Improvements in machinery or apparatus for crushing or reducing grain, seeds, and other substances."

2278. To Alexander Mackenzie Ferry, of Edinburgh, in the county of Midlothian, North Britain, Merchant, for the invention of "Improvements in the manufacture or production of oil, and in lamps for burning the same."

2280. To Andrew Hind, of No. 60, High Street, Poplar, and Julius Lowenthal, of No. 16, Little Tower Street, for the invention of "Improvements in the manufacture of pottery and china wares."—A communication from abroad by Gustav Gumpel, of No. 1, Stobenstrasse, Brunswick, Germany.

2282. To Robert Warry, of Brompton Barracks, in the county of Kent, Armourer Sergeant, 3rd Depôt Battalion, for the invention of "Improvements in breech-loading ordnance, and in projectiles for the same."

2284. And to George Gibson and James Gibson, of Southall, in the county of Middlesex, Surveyors, for the invention of "Improved machinery for raising and removing soil or earth from sewer and other excavations."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of October, 1859.

2286. To William Brookes, of No. 73, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in securing the tyres of railway carriage and engine wheels." A communication from abroad by Robert Stothert Kirkpatrick, of Brussels, in the kingdom of Belgium, Civil Engineer.

On his petition, recorded in the Office of the Commissioners on the 7th day of October, 1859.

2290. To William Dawson, of Blackburn, in the county of Lancaster, Shuttle Maker, and Thomas Singleton, of Over Darwen, in the said county, Weaver, for the invention of "Improvements in apparatus applicable to looms for weaving."

2292. To John Henry Johnson, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the treatment of fatty matter."—A communication from abroad by Joseph Etienne Lhonoré, of Paris, in the empire of France, Manufacturer.

2294. To Patrick Robertson, of Sun Court, Cornhill, in the city of London, for the invention of "Improvements in preparing, boiling, and fermenting worts, and in maturing beer, spirits, and cyder."

2296. And to Henry Monument, of Myrtle Street, Dalston, and George Berry, of Buttesland Street, Shoreditch, for the invention of "Improvements in apparatus for raising and moving earth, and other matters and bodies."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of October, 1859.

2297. To John Spalding Parfitt, of No. 60, Boulevart de Strasbourg, Paris, Practical Engineer, for the invention of "A registering nautical velocimeter, for measuring the speed of ships, and also of currents of water."

2299. To Charles Albert Shaw, of Biddeford, in the state of Maine, in the United States of America, Broker, for the invention of "Improvements in machinery for shaping or bending tinned sheet iron, and other sheet metal."—A communication from abroad by William Burton, of Cazenovia, in the county of Madison, and state of New York, America.

2300. To Thomas Knowles and James Knowles, of the city of Manchester, in the county of Lancaster, Engineers, and Arthur Rigg, of the city of Chester, for the invention of "Improvements in machinery or apparatus for shaping, cutting, punching, and drilling metals, which improvements are also applicable to presses."

2301. To George White, of No. 34, Dowgate Hill, Cannon Street, in the city of London, for the invention of "Improvements in frames for spinning and twisting yarn of any description of textile materials."—A communication from abroad by Mr. Charles Leyherr, of Leval, France.

2303. To Samuel Brewster Parker, of Deptford, in the county of Kent, Manufacturer, for the invention of "A method of, and apparatus for, revivifying oxide of iron, and other agents, for purifying gas containing metallic particles."

2304. And to William Martin junior, of Dundee, Calenderer, for the invention of "An improved method of damping linen and other textile fabrics."

On their several petitions, recorded in the office of the Commissioners on the 10th day of October, 1859.

2305. To Louis Joseph Jeannin, of the town of Pontarlier, department of the Doubs, empire of France, a Mechanic, for the invention of "A new system of pumps."

2306. To Charles Frederick Beyer, of the firm of Messrs. Beyer, Peacock, and Company, of the Gorton Foundry, near the city of Manchester, Engineers, for the invention of "Improvements in machinery for boring and drilling."

2307. To Joseph Louis Tenting, ainé, of Paris, France, Engineer, for the invention of "Improvements in the construction of buffers for railway and other carriages, also applicable to other purposes where springs are employed."

2308. To Joseph Louis Tenting, ainé, of Paris, France, Engineer, for the invention of "Improvements in the construction of the axles of railway and other carriages."

2309. To John Earl, of Melbourne, in the county of Derby, Railway Contractor, for the invention of "Improvements in arranging and applying harness to the draft of carriages."

2310. To William Dickson Hart, of Edinburgh, in the county of Mid-Lothian, North Britain, Philosophical Instrument Maker, for the invention of "Improvements in pressure regulating apparatus for gas burners."

2311. To John Smith, of Oldham, in the county of Lancaster, Manufacturer, for the invention of "Improvements in breech-loading fire-arms and ordnance."

2312. To Patrick Gregson Cunningham, of Salisbury, Wilts, for the invention of "Improvements in the construction of artificial teeth and gums."

2313. To Andrew Whytock, of 12, Little Saint Andrew Street, Upper Saint Martin's Lane, in the county of Middlesex, for the invention of "Improvements in coating sheets of metal with other metals and other substances."

2314. To Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved mode of clarifying and defecating saccharine solutions and juices."—A communication from abroad by Horatio Nelson Fryatt, of New York, in the United States of America.

2315. And to Franz Anton Lohage, of Unna, Westphalia, in the kingdom of Prussia, Chemist, for the invention of "An improved construction of water wheel."—A communication from abroad by Mr. Scharschmidt, of Arnsberg, in Westphalia aforesaid.

On their several petitions, recorded in the Office of the Commissioners on the 11th day of October, 1859.

2316. To Joseph Skertchly, of Ashby-de-la-Zouch, in the county of Leicester, Engineer, for the invention of "Improvements in the manufacture of mosaic and other ornamental tiles and slabs, and in apparatus connected therewith."

2317. To George Scott, Engineer, of No. 3, Priory Cottages, Peckham, in the county of Surry, for the invention of "Improvements in generating elastic fluids and in the apparatus for that purpose."

2318. To William Day, Builder, of Burton Latimer, near Wellingborough, in the county of Northampton, for the invention of "A direct-action rotary steam engine."

2319. To Alfred Augustus De Reginald Hely, of 2, Park Village West, Regent's Park, in the county of Middlesex, Gentleman, for the invention of "Certain improvements in the manufacture of tobacco for smoking purposes."

2320. To James Carrick, Hotel Proprietor, Glasgow, for the invention of "Improvements in commodes, water closets, and other sanitary appliances."

2321. To Zaccheus Nuttall, of Stockport, in the county of Chester, Weaver, for the invention of "Improvements in looms for weaving."

2322. To James Thomson, of Notting Hill, in the county of Middlesex, Gas Engineer, for the invention of "An improved form of hydraulic valve and apparatus to be used in the manufacture of gas."

2323. To Thomas Rothwell, of Manchester, in the county of Lancaster, Contractor, for the invention of "Improvements applicable to warehouses and other buildings in which 'well-holes' are constructed for the purposes of light and ventilation."

2324. To Edward Howorth Baron, Manager, and James Wheater, Mechanic, both of Lee Mill, near Bacup, and Lambert Tatley, Cotton Manufacturer, of Crawshaw Booth, all in the county of Lancaster, for the invention of "Certain improvements in carding engines for carding cotton, wool, or other fibrous materials."

2325. To James Tangye, of Birmingham, in the county of Warwick, Engineer, for the invention of "A new or improved method of actuating certain kinds of motive power engines, and in the distribution of motive power."

2326. To Edward Henry Taylor, of Rubicon Works, Saltney, in the city of Chester, Engineer, for the invention of "Improvements in apparatus applicable to the permanent-way of railways."

2327. To Charles Henry Southall, of Blackburn, in the county of Lancaster, Boot and Shoe Maker, for the invention of "An improved apparatus for making and finishing boots and shoes."

2328. To Charles Peters Moody, of Corton Denham, in the county of Somerset, Gentleman, for the invention of "A method of, and apparatus for, raising grass and other crops on to stacks,

which apparatus is also applicable to raising and transferring weights."

2329. To THOMAS BARNABAS DAFT, of Tottenham, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in flexible valves."

2330. To HENRY BRIGHT, of Sandwich Street, Burton Crescent, in the county of Middlesex, for the invention of "Improvements in machinery or apparatus for navigating the air."

2331. And to THOMAS TWELLS, of the town and county of the town of Nottingham, Machinist, for the invention of "Improvements in machinery and apparatus connected therewith for embroidering or ornamenting woven, looped, or lace fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of October, 1859.

2333. To JONATHAN RHONE, of Leman Street, Whitechapel, for the invention of "An indicating meter tap."

2335. To JAMES HUNTER, of Kilmahumaig, in the county of Argyll, North Britain, Farmer, for the invention of "Improvements in machinery or apparatus for ploughing or cultivating land."

2337. And to LOUIS HENRI ROUSSEAU, of 29, Boulevart St. Martin, Paris, in the empire of France, Mechanician, for the invention of "Improvements in steam engines."

On their several petitions, recorded in the Office of the Commissioners on the 13th day of October, 1859.

2341. To FREDERICK LEVICK, of Blaina Cwm Celyn and Coalbrook Vale Iron Works, in the county of Monmouth, Iron Master, for the invention of "An improvement or improvements in the manufacture of iron."

2345. To JAMES JACK, of Liverpool, in the county of Lancaster, Engineer, for the invention of "Certain improvements in steam engines and boilers for marine and land purposes.

2347. And to THOMAS ROBINSON, of St. Helen's, Lancashire, Iron Founder, for the invention of "Improvements in annealing or softening wire."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of October, 1859.

2349. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in the mode of applying india rubber, gutta percha, or other elastic substances to give elasticity between the tires or outer rims, and the hubs or naves of railway or other wheels, and between other metallic bodies."—A communication from abroad by Edward Crane, of Dorchester, Norfolk County, Massachusetts, in the United States of America.

2351. To FREDERICK ALLEN LEIGH, of the city of Manchester, in the county of Lancaster, Mechanical Engineer, for the invention of "Improvements in machinery or apparatus for the manufacture of screws, bolts, and nuts."—A communication from abroad by Richard Hartmann, of Chemintz, in the kingdom of Saxony.

2353. To RALPH BATES, of Castle Mills, Stalybridge, in the county of Lancaster, Cotton Spinner, for the invention of "Improvements in engines for carding cotton and other fibrous substances."—A communication from abroad by John Robinson, of New York, United States of America.

2355. To JOSEPH ECHARD, of Paris, France, Agricultural Implement Manufacturer, for the invention of "Improvements in machines and apparatus for ploughing and sowing."—A communication from Mr. Estlimbaum, a person resident Rue de Bondy, 54, at Paris.

2357. And to JOHN HARCOURT BROWN, of Abbey Mill House, Romsey, in the county of Hants, for the invention of "Improvements in the preparation of gunpowder for loading ordnance and fire arms."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of October, 1859.

2361. To GEORGE BERRY, of No. 19, Buttesland Street, in the county of Middlesex, Gentleman, for the invention of "Improvements in the construction of glass and earthenware vessels for containing fluids, particularly such vessels as are intended to contain fluids which may exert dynamic force on the stoppers of such vessels."

2363. To LUCIEN VIDIE, of Paris, France, Gentleman, for the invention of "Improvements in transmitting the motion of steam engines."

2365. To GEORGE WAIDE REYNOLDS, of Birmingham, in the county of Warwick, Manufacturer, and ENOCH DANCE, of Birmingham, aforesaid, Manager of Works, for the invention of "A new or improved manufacture of baskets and other articles usually made of wicker work, and new or improved machinery to be employed in the said manufacture."

2367. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in preserving and disinfecting organic substances."—A communication from abroad by Vincent Marie Féraud, Leonard Laureau, and Felix Richard, all of Paris, in the empire of France.

2369. To JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for the invention of "Improvements in the manufacture or production of boots and shoes, and other coverings for the feet, and in the maahinery, apparatus, and means connected with such manufacture."

2371. To DAVID JONES, of Bassaleg, in the county of Monmouth, Civil Engineer, for the invention of "Improvements in self-acting breaks to be used on railways."

2373. And to WALTER HALL and ARTHUR WELLS, both of Erith, in the county of Kent, India Rubber Web Manufacturers, for the invention of "Improvements in the manufacture of ropes and cords."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of October, 1859.

2375. To GERMAIN CANOUIL, of No. 93, Curtain Road, Shoreditch, in the county of Middlesex, Chemist, for the invention of "Cartridges's paper, chemically prepared for percussion fire arm."

2377. To JOSEPH REYNOLDS, of 21, Bull and Mouth Street, city of London, Engineer, for the invention of "Improvements in the manufacture

of wrought nails."—A communication from abroad by Henry Coggshall, of Providence, R. I., U. S. of America.

2379. To GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in machinery for steering vessels."—A communication from abroad by Edward N. Dickerson, of Park Row, New York, United States of America.

2381. To CALEB HILL, of Cheddar, in the county of Somerset, Stay Manufacturer, for the invention of "An improved fastening for stays and other purposes."

2383. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved method of making combs or gills employed in the preparation of fibrous substances." — A communication from abroad by Charles de Jongh, of Guebwiller, in the empire of France.

2385. And to AUGUSTE SCHEURER ROTT, of Thann, in the French empire, Manufacturer, for the invention of "The preparation of certain substances for fixing colors in dyeing and printing, and for other purposes."

On their several petitions, recorded in the Office of the Commissioners on the 18*th day of October*, 1859.

2387. To GEORGE WORSSAM, of No. 3, Oakeley Crescent, City Road, in the county of Middlesex, for the invention of "An improvement in non-condencing steam engines."

2389. To JOHN GORDON, Engineer, 3, Railway Place, Fenchurch Street, in the city of London, for the invention of "Improvements in machinery or apparatus for pulping coffee."

2391. To THOMAS SPENCER, of 192, Euston Road, Euston Square, in the county of Middlesex, Analytical and Consulting Chemist, for the invention of "Improvements in the manufacture of carbonate of soda."

2393. To CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in photographing on uneven surfaces, and in apparatus for that purpose."—A communication from abroad by John Henry Pein, of New York, in the United States of America.

2395. To JOHN JAMES BOWEN, of 136, Great Dover Street, Southwark, in the county of Surrey, Licensed Victuallers' Pot Manufacturer, for the invention of "Improvements in manufacturing the pots for containing liquids used by publicans and others."

2397. To WILLIAM WARNE, JAMES ARCHIBALD JAQUES, and JOHN AMERICUS FANSHAWE, of Tottenham, in the county of Middlesex, India Rubber Manufacturers, for the invention of "Improvements in the manufacture of elastic hoops or bands and other analogous elastic articles, applicable to various parts of ladies' and gentlemen's wearing apparel, and in the machinery employed in such manufacture."

2399. And to JOSEPH RANDALL PALMER, of Newport Cottage, Old Ford, Bow, in the county of Middlesex, for the invention of "Improvements in the manufacture of printing ink and paints and varnishes, and also in the manufacture of lacquers, japans, and blacking."

On their several petitions, recorded in the Office of the Commissioners on the 19*th day of October*, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given, that the petition of

2413. JOHN AVERY, of Essex Street, in the county of Middlesex, Patent Agent, praying for Letters Patent for the invention of "Improvements in rail-road weigh-locks and other platform scales,"—a communication from E. Sampson and Dennison S. Wheeler, of Troy, U.S.A.,—was deposited and recorded in the Office of the Commissioners on the 22nd day of October, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

27th October, 1859.

1053. GEORGE PEARSON, of Bugbrook, near Weedon, in the county of Northampton, Contractor, for an invention of "Improvements in apparatus for cutting and shaping trenails." — Dated 27th April, 1859.

1058. ROBERT JAMES LAING, of the Independent Gas Works, Haggerstone, in the county of Middlesex, Engineer, for an invention of "Improvements in wet gas meters." — Dated 27th April, 1859.

1061. THOMAS LACEY, of Grafton Street, in the city of Westminster, Gas Engineer, for an invention of "Improvements in gas regulators." — Dated 27th April, 1859.

1068. NICOLAS LIBOTTE, Mechanician, of 33, Boulevard St. Martin, Paris (empire of France), for an invention of "A steam brake for mines which may also be worked by hand."—Dated 28th April, 1859.

1069. NATHANIEL JOHN HOLMES, Gentleman, of Glasgow, county Lanark, Scotland, for an invention of "Improvements in electric telegraphs and apparatus connected therewith." — Dated 28th April, 1859.

1070. EUGÈNE LARDENOIS, of Brussels, in the kingdom of Belgium, Merchant, for an invention of "Improvements in the manufacture of pulp for paper, pasteboard, and other like articles."—A communication from Bonnet Frederic Brunel, residing in Brussels."—Dated 28th April, 1859.

1071. THOMAS CLARKE, of Hackney, in the county of Middlesex, Engineer, for an invention of "Im-

provements in sheaves or pulleys for paying out and hauling in ropes, chains, and cables, for communicating motion to machinery and for other useful purposes."—Dated 28th April, 1859.

1072. JOHN WHEAT, of Hinckley, in the county of Leicester, for an invention of "Certain improvements in drilling machines employed for agricultural purposes."—Dated 28th April, 1859.

1076. WILLIAM CORBETT, of Clayton, near Manchester, in the county of Lancaster, and WILLIAM CARMONT, of the same place, Iron and Steel Manufacturers, for an invention of "Certain improvements in the construction and arrangement of furnaces employed in the manufacture of iron and steel, and for other similar purposes."—Dated 29th April, 1859.

1077. JOHN WELLINGTON WELCH, of Manchester, in the county of Lancaster, Warp Sizer, for an invention of "Improvements in sizing or dressing yarns or threads for weaving."—Dated 29th April, 1859.

1081. THOMAS SMITH, of Bredfield, in the county of Suffolk, for an invention of "Improvements in cultivating implements."—Dated 29th April, 1859.

1082. WILLIAM WINSTANLEY and JOSEPH KELLY, of Liverpool, in the county of Lancaster, Hydraulic Engineers, for an invention of "Improvements in pumps and gearing, and appliances for working the same."—Dated 30th April, 1859.

1084. JOHN DARLINGTON, of No. 36, Cannon Street, in the city of London, county of Middlesex, Mining Engineer, for an invention of "Improvements in zinc retort furnaces."—Dated 30th April, 1859.

1085. EDWARD FRANCIS, of Wrexham, in the county of Denbigh, Grocer, for an invention of "Improved apparatus, applicable to the treatment of tea and other useful purposes."—Dated 30th April, 1859.

1087. WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in ventilating or supplying air to diving bells and divers, and in holding communication therewith from above."—A communication from abroad by Francois Aquilas Laurent, of Paris. — Dated 30th April, 1859.

1091. JOSEPH SOUQUIÈRE (called EMILE), of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, for an invention of "A new or improved process for distilling coal."—Dated 30th April, 1859.

1092. THOMAS HALL ARROWSMITH, of Bolton, in the county of Lancaster, Cotton Spinner, for an invention of "Improvements in carding engines."—Dated 2nd May, 1859.

1095. WILLIAM BAYLISS, of the firm of W. and M. Bayliss and Co., Flat and Chain Cable and Iron Hurdle and Fencing Manufacturers, of Monmore Green, Wolverhampton, in the county of Stafford, for an invention of "Improvements in the manufacture of iron hurdles and fencing."—Dated 2nd May, 1859.

1096. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in and in connection with electro-magnetic engines."—A communication from abroad by Alexandre Paul Marie Darlu, of Paris.—Dated 2nd May, 1859.

1097 JOHN BASFORD, of the Brick Yard, Oundle, in the county of Northampton, for an invention of "An improvement in the apparatus used when expressing clay or brick earth through dies."—Dated 2nd May, 1859.

1101. WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for an invention of "Improvements in the manufacture of caustic soda and carbonate of soda from certain alkaline liquors and salts."—Dated 2nd May, 1859.

1103. FREDERICK WILLIAM EMERSON, of 110, Fenchurch Street, in the city of London, for an invention of "Improvements in treating ores to obtain a new metallic substance, and its salts, and in the application of such matters, and also certain products of tungsten in dyeing, printing, and painting."—Dated 2nd May, 1859.

1106. THOMAS WILLIAM MILLER, of Her Majesty's Dockyard, in the parish of Portsea, in the county of Southampton, for an invention of "Improvements in apparatus for and mode of generating steam and economising fuel."—Dated 3rd May, 1859.

1107. WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "Improvements in obtaining or extracting quinine and the principal organic alkalies."—A communication from abroad by Lalonel de Sourdeval, 22, Rue Bergere, Paris. —Dated 3rd May, 1859.

1114. EDWARD WATKIN SCALE, of Merthyr Tydfil, in the county of Glamorgan, Gentleman, for an invention of "Improvements in railway signals." —Dated 3rd May, 1859.

1115. ROBERT MUSHET, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement in the manufacture of cast steel." —Dated 3rd May, 1859.

1116. WILLIAM HOLLAND KINGSTON, A. B., Trinity College, Dublin, and of Bandon, county of Cork, Ireland, for an invention of "Improved means of communication between the passengers and guards and guards and engine drivers of railway trains."—Dated 4th May, 1859.

1123. JOSEPH FELIX ALLENDER, of Brierley Hill, in the county of Stafford, Manager of Works, and DANIEL ROWLEY, of Brierley Hill aforesaid, Iron Roller, for an invention of "Improvements in shears for cutting boiler plates and sheets and for other like purposes."—Dated 5th May, 1859.

1140. SAMUEL WRIGHT, of Sudbury, in the county of Suffolk, Gas Engineer, for an invention of "An improved gas governor or regulator."—Dated 6th May, 1859.

1145. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "Improvements in apparatus for grinding grain and other substances."—A communication from abroad by Pierre Etienne Brisson, of Orleans, France.—Dated 6th May, 1859.

1148. ADAM CARLISLE BAMLETT, of Middleton Tyas, in the county of York, Farmer, for an invention of "Improvements in reaping machines, part

of which improvements is applicable to other agricultural implements."—Dated 7th May, 1859.

1149. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in the manufacture and construction of locks and fastenings."—A communication from abroad by Joseph Napoleon Rebour, a foreigner residing at Paris (France.)—Dated 7th May, 1859.

1150. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in puddling iron and steel."—Dated 7th May, 1859.

1151. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in the manufacture of iron."—Dated 7th May, 1859.

1157. John Ramsbottom, of Crawshaw Booth, near Rawtenstall, in the county of Lancaster, Machine Printer, for an invention of "Certain improvements in machinery for printing fabrics."—Dated 9th May, 1859.

1174. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in treating and in supplying air, and in the apparatus employed therein, part of which improvements is also applicable to exhausting fluids."—A communication from abroad by Louis Cyrille Bureau, residing at Paris, in the French empire.—Dated 10th May, 1859.

1176. William Oland Bourne, of the city and state of New York, United States of America, for an invention of "Improvements in the means of and apparatus for separating metals, ores, and other substances of different specific gravities."—Dated 10th May, 1859.

1185. William Spence, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, for an invention of "Improvements in knapsacks and other military equipments."—A communication from abroad by John Rider, of New York, United States.—Dated 11th May, 1859.

1188. James Bagster Lyall, of Castle Frome, in the county of Hereford, Gentleman, and Frederick William Campin, of the Strand, in the county of Middlesex, Patent Agent, for an invention of "Improvements in the 'saloon' omnibus and other omnibuses, the wheels and springs whereof and mode of attaching them being applicable to other carriages."—Dated 11th May, 1859.

1193. Thomas Ridley Oswald, of Sunderland, Ship Builder, for an invention of "Improvements in building ships and other vessels."—Dated 12th May, 1859.

1223. John Brown the younger, of the Rotherham Iron Works, Rotherham, in the county of York, Ironfounder, for an invention of "Improvements in buffers, draw springs, and bearing springs."—Dated 17th May, 1859.

1237. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in lubricating certain portions of machinery."—A communication from abroad by Michael Bonière the younger, of Paris, in the empire of France, Manufacturer.—Dated 18th May, 1859.

1239. James Childs, of Windsor House, Putney, in the county of Surrey, for an invention of "Improvements in hardening and vulcanizing compounds of sulphur with india rubber and gutta percha."—Dated 18th May, 1859.

1242. Robert Wilson, of Patricroft, near the city of Manchester, Engineer, for an invention of "Improvements in hydraulic machinery."—Dated 20th May, 1859.

1257. William Henry Perkin, King David Fort, St. George-in-the-East, in the county of Middlesex, and Matthew Gray, of the Dalmonach Print Works, Bonhill, Dumbartonshire, for an invention of "Improvements in mordanting and dyeing fabrics of cotton and other vegetable fibres."—Dated 21st May, 1859.

1305. William Henry Nevill, of Llanelly, in the county of Carmarthen, Manufacturer, for an invention of "Improvements in the manufacture of steel and wrought iron."—Dated 26th May, 1859.

1308. James Corn Bent, of Birmingham, in the county of Warwick, Gas Meter Manufacturer, for an invention of "Improvements in gas-meters."—Dated 26th May, 1859.

1320. William Henry Graveley, of Upper East Smithfield, in the county of Middlesex, Engineer, for an invention of "Improvements in apparatuses for purifying and aërating sea water, parts of which may be employed for cooking and baking purposes."—Dated 28th May, 1859.

1327. Edgar Breffit, of 61, King William Street, in the city of London, Glass Manufacturer, for an invention of "Improvements in machinery or apparatus for the manufacture of hollow corks."—Dated 30th May, 1859.

1419. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improvement in fire arms."—A communication from abroad by Charles Theodore Pierson, of New York, in the United States of America.—Dated 11th June, 1859.

1440. Simon Levy, of the city of Manchester, in the county of Lancaster, Cap Manufacturer, for an invention of "Improvements in hats, caps, or coverings for the head."—Dated 16th June, 1859.

1540. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for cutting corks."—A communication from abroad by Edward Conroy, of Boston, in the United States of America.—Dated 28th June, 1859.

1560. John Lawson, of Leeds, in the county of York, Engineer, and Stephen Cotton, of Leeds aforesaid, Draftsman, for an invention of "Certain

improvements in machinery for roving, twisting, and spinning flax, cotton, wool, and other fibrous substances."—Dated 30th June, 1859.

1628. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in moulding or shaping metals by pressure, and in the machinery or apparatus employed therein."—A communication from abroad by Levi Dodge, of the United States of America.—Dated 8th July, 1859.

1661. James Combs, of Belfast, for an invention of "Improvements in machinery for hackling flax and other fibrous substances." — Dated 13th July, 1859.

1731. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in extracting oil from coal and other substances yielding pyrogenous oils."—A communication from abroad by Franklin W. Willard, of New York, in the United States of America. —Dated 25th July, 1859.

1742. John Davies, of Tetbury, in the county of Gloucester, Machinist, for an invention of "A new or improved self-adjusting ventilating apparatus." —Dated 27th July, 1859.

1812. William Richard Drake, of No. 46, Parliament Street, Westminster, in the county of Middlesex, Gentleman, for an invention of "An apparatus for conducting electricity in the sea, and for telegraphing and sounding in deep water."—A communication from abroad by Emile Schneider, of Ecole de Droit, Saint Petersburgh, in the empire of Russia.—Dated 6th August, 1859.

1836. John Cannon, of Billiter Street, in the city of London, Ship Broker, for an invention of "Improvements in washing machines."—A communication from abroad by Abiel Odell, of Bourmanville, in the county of Durham, Canada, Machinist. —Dated 9th August, 1859.

1840. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for an invention of "A new and useful method of manufacturing the vulcanized compounds of vulcanizable gums."—A communication from abroad by John Murphy, of the city, county, and state of New York.—Dated 9th August, 1859.

1860. Warren De La Rue, Manufacturer, and Dr. Hugo Müller, both of 110, Bunhill Row, in the county of Middlesex, for an invention of "Improvements in treating Japan and other vegetable wax."—Dated 11th August, 1859.

1919. The Honourable William Talbot, of the Army and Navy Club, Pall Mall, in the county of Middlesex, for an invention of "An improved cigar lighter."—Dated 22nd August, 1859.

1930. Thomas Richardson, of New Bridge Street, Newcastle-on-Tyne, for an invention of "Improvements in treating copper ores."—Dated 23rd August, 1859.

1965. David Todd, of Bridge-of-Weir, in the county of Renfrew, North Britain, Mill Manager, for an invention of "Improvements in machinery or apparatus for carding and treating, or preparing fibrous materials."—Dated 29th August, 1859.

2001. William Brown the younger, of the town county of Selkirk, North Britain, Manufacturer, and Simeon Bathgate, of the same place, Engineer, for an invention of "Improvements in machinery or apparatus for grinding or sharpening the card teeth of carding engines for carding brous materials."—Dated 2nd September, 1859.

2032. John James Sieber, of 5, Baring Street, New North Road, London, in the county of Middlesex, for an invention of "Improvements in power looms."—A communication from abroad by Henry Honegger, of Thiengen, Grand Duchy of Baden.—Dated 6th September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 26th October*, 1859, *inclusive.*)

25th October.

2557. John Lawson, of 2, Morris Place, Glasgow, for an invention of "Improvements in the manufacture of pile and other fabrics."—Dated 31st October, 1856.

26th October.

2650. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer, for an invention of "Improvements in the manufacture of barytes and strontian, and their salts, and in their application to various purposes."—A communication.—Dated 11th November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 26th October*, 1859, *inclusive.*)

25th October.

519. Mathew Fitzpatrick, of Upper Cleveland Street, Fitzroy Square, in the county of Middlesex, Machinist, for an invention of "Certain improvements in machinery or apparatus to be applied to locomotive engines and carriages for the prevention of accidents, and also in the manufacture and application of indestructible and non-rebounding cushions to be applied to the above, and for other similar purposes."—Dated 25th October, 1852.

525. Myer Myers and Maurice Myers, trading as the firm of Myers and Son, and William Hill, Manager to the said Firm, Steel Pen Manu-

facturers, all of Birmingham, in the county of Warwick, for an invention of "Certain improvements in pens and penholders."—Dated 26th October, 1852.

543. JOHN NORTON, of Cork, in the county of Cork, Esquire, Captain, late of H. M. 34th Foot, for an invention of "Improvements in blasting."—Dated 27th October, 1852.

572. HENRY BRINSMEAD, of the parish of St. Giles in the Wood, in the county of Devon, Machine Maker, for an invention "For shaking straw to be attached to thrashing machines."—Dated 30th October, 1852.

26th October.

552. GEORGE HATTERSLEY, of Sheffield, in the county of York, for an invention of "A radiating hearth-plate."—Dated 28th October, 1852.

756. FRANCIS MONTGOMERY JENNINGS, of Cork, in the kingdom of Ireland, Manufacturing Chemist, for an invention of "Improvements in preparing flax, hemp, China grass, and other vegetable fibrous substances."—Dated 15th November, 1852.

Erratum in Journal of 18th October.

Page 1200, col. 2, No. 626, for "wheat" read "peat."

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1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions &c. By SIMON STURTEVANT. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By JOHN ROVINSON (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether NICHOLAS PAGE or Sir NICHOLAS HALSE was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. DUD DUDLEY'S Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638.) Price 8*d.*
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6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) EDWARD SOMERSET, Lord Marquis of WORCESTER, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
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9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By JOHN ALLEN, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By JONATHAN HULLS. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By SAMUEL SUTTON, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent No.* 602, *dated* 16*th March* 1744.) Price

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

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No. 608. TUESDAY, NOVEMBER 1, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1463. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the construction of stereoscopes."—A communication from Henry Adolphe Corbin, residing in Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 17th day of June, 1859.

1487. And ANDREW PEDDIE HOW, of No. 81, Mark Lane, in the city of London, Engineer, has given the like notice in respect of the invention of "Improvements in self-supplying distilling apparatus, and in apparatus for cooking combined therewith."

1492. And JAMES MEIKLE, of 79, Rumford Street, Glasgow, has given the like notice in respect of the invention of "Improvements in coating iron ships with asphalte, which improvements are also applicable to coating other surfaces."

As set forth in their respective petitions, both recorded in the said office on the 21st day of June, 1859.

1499. And ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, Engineer, has given the like notice in respect of the invention of "Improvements in steam hammers and pile driving machines."

1504. And WILLIAM RUSSELL, of the borough of Leicester, in the county of Leicester, Ironmonger, has given the like notice in respect of the invention of "Improvements in wheels for ploughs, cultivators and other implements or carriages."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of June, 1859.

1514. And HENRY DOULTON, of Lambeth, has given the like notice in respect of the invention of "Improvements in earthenware jars and bottles."

As set forth in his petition, recorded in the said office on the 23rd day of June, 1859.

1517. And JAMES MILLS, of Heaton Norris, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in the manufacture of keys and gibs, and in the machinery employed therein."

As set forth in his petition, recorded in the said office on the 24th day of June, 1859.

1524. And THOMAS HOWARD, of King and Queen Iron Works, Rotherhithe, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in condensing steam in engines where superheated steam is used."

1526. And CHARLES WYE WILLIAMS, of Liverpool, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in steam boilers."

1531. And WILLIAM COPPIN, of Strand Foundry, Londonderry, Marine Architect and Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for raising sunken and stranded vessels and their cargoes, and for raising and lowering other bodies into and out of the water, part of which improvements are applicable to raising weights generally."

As set forth in their respective petitions, all recorded in the said office on the 25th day of June, 1859.

1534. And DANIEL JOSEPH FLEETWOOD, of Birmingham, in the county of Warwick, Copper Agent, has given the like notice in respect of the invention of "An improvement or improvements in shaping metals."

1535. To BETHEL BURTON, of Brooklyn, in the state of New York, United States of America, hae

given the like notice in respect of the invention of "Improvements in breech-loading fire-arms."
As set forth in their respective petitions, both recorded in the said office on the 27th day of June, 1859.

1550. And GEORGE CHAPMAN, of Rutland Street, Leicester, has given the like notice in respect of the invention of "Improvements in knitting machines."
As set forth in his petition, recorded in the said office on the 29th day of June, 1859.

1554. And ALPHONSE GUEYTON, of Paris, in the French empire, Jeweller, has given the like notice in respect of the invention of "Improvements in enamelling articles of jewellery, applicable also to other similar purposes."

1557. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in lithographic and chromolithographic presses."—A communication from abroad by Jean Théodore Dupuy, of Paris.

1562. And JEPTHA AVERY WILKINSON, of Brooklyn, in the state of New York, United States of America, has given the like notice in respect of the invention of "Improvements in printing presses and apparatus connected therewith."

1564. And JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in uniting certain parts of boots and shoes, and in the means employed therein."
As set forth in their respective petitions, all recorded in the said office on the 30th day of June, 1859.

1574. And ROBERT ROYDS and ANTHONY HARCOURT, both of Woolston, in the county of Hants, Engineers, have given the like notice in respect of the invention of "An improved composition for protecting the bottoms of ships and other structures of iron."
As set forth in their petition, recorded in the said office on the 1st day of July, 1859.

1583. And CHARLES HANSON GREVILLE WILLIAMS, of No. 39, Regent Square, Gray's Inn Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in dyeing fabrics and yarns."
As set forth in his petition, recorded in the said office on the 2nd day of July, 1859.

1586. And JOSEPH SIMON, residing in Paris, Passage des Petites Ecuries, No. 5, has given the like notice in respect of the invention of "A composition named zeiodelite, a kind of paste, which becomes as hard as stone, is unchangeable by the air, and, being proof against the action of acids, may replace lead and other substances for various uses."
As set forth in his petition, recorded in the said office on the 4th day of July, 1859.

1701. And HENRI PARENT, of Roubaix, in the empire of France, Manufacturer, has given the like notice in respect of the invention of "Improvements in or applicable to looms for weaving."
As set forth in his petition, recorded in the said office on the 19th day of July, 1859.

1712. And GEORGE WELCH, of Birmingham, in the county of Warwick, Manufacturer, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of frames for mirrors, pictures, and other articles."
As set forth in his petition, recorded in the said office on the 21st day of July, 1859.

1733. And JAMES KING, of Glasgow, in the county of Lanark, North Britain, Chemist, has given the like notice in respect of the invention of "Improvements in the treatment of materials used in or resulting from the distillation of spirits."
As set forth in his petition, recorded in the said office on the 26th day of July, 1859.

1895. And RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in locks and keys."—A communication from abroad by Jules Emile Petit, of Paris.
As set forth in his petition, recorded in the said office on the 17th day of August, 1859.

2038. And EDWARD ROBERT DANN and EDWARD GOLDSCHMIDT, both of Nottingham, have given the like notice in respect of the invention of "Improvements in the manufacture of bonnet fronts or lappets."
As set forth in their petition, recorded in the said office on the 7th day of September, 1859.

2112. And JOSEPH BECK, of the firm of Smith, Beck, and Beck, of Coleman Street, in the city of London, has given the like notice in respect of the invention of "Improvements in stereoscopes."
As set forth in his petition, recorded in the said office on the 16th day of September, 1859.

2166. And JOHN GEDGE, of the firm of John Gedge and Son, of 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agents, has given the like notice in respect of the invention of "An improved stamp holder and cutter."—A communication from abroad by Denis Nefflier and Pierre Blandin, both residing at Dijon, in the empire of France.
As set forth in his petition, recorded in the said office on the 24th day of September, 1859.

2199. And MANUEL LEOPOLD JONAS LAVATER, of the Strand, in the county of Middlesex, India Rubber Manufacturer, has given the like notice in respect of the invention of "Improvements in apparatus known as injection bottles, and in pneumatic discs, used in apparatus for adhering to glass and other impermeable substances."
As set forth in his petition, recorded in the said office on the 28th day of September, 1859.

2214. And EDWARD SONNEBORN, of Lüdge, in Westphalia, kingdom of Prussia, and now residing at 39, Finsbury Square, London, has given the like notice in respect of the invention of "An improvement in the manufacture of cement."
As set forth in his petition, recorded in the said office on the 30th day of September, 1859.

2276. And ENOCH OLDFIELD TINDALL, of Scarborough, in the county of York, Engineer, has

given the like notice in respect of the invention of "Improvements in machinery or apparatus for crushing or reducing grain, seeds, and other substances."

2278. And Alexander Mackenzie Ferry, of Edinburgh, in the county of Midlothian, North Britain, Merchant, has given the like notice in respect of the invention of "Improvements in the manufacture or production of oil, and in lamps for burning the same."

As set forth in their respective petitions, both recorded in the said office on the 6th day of October, 1859.

2309. And John Earl, of Melbourne, in the county of Derby, Railway Contractor, has given the like notice in respect of the invention of "Improvements in arranging and applying harness to the draft of carriages."

As set forth in his petition, recorded in the said office on the 11th day of October, 1859.

2331. And Thomas Twells, of the town and county of the town of Nottingham, Mechanist, has given the like notice in respect of the invention of "Improvements in machinery and apparatus connected therewith for embroidering or ornamenting woven, looped, or lace fabrics."

As set forth in his petition, recorded in the said office on the 12th day of October, 1859.

2363. And Lucien Vidie, of Paris, France, Gentleman, has given the like notice in respect of the invention of "Improvements in transmitting the motion of steam engines."

2371. And David Jones, of Bassaleg, in the county of Monmouth, Civil Engineer, has given the like notice in respect of the invention of "Improvements in self-acting breaks to be used on railways."

As set forth in their respective petitions, both recorded in the said office on the 17th day of October, 1859.

2377. And Joseph Reynolds, of 21, Bull and Mouth Street, City of London, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of wrought nails."—A communication from abroad by Henry Coggshall, of Providence, R.I., U.S. of America.

As set forth in his petition, recorded in the said office on the 18th day of October, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Errata.

2331, appeared prematurely in Journal of 25th October.

Journal of Friday, 28th October,

2351. For "Chemintz" read "Chemnitz."

Patents on which the Stamp Duty of £50 has been Paid.

(*To 28th October*, 1859, *inclusive.*)

27th October.

2527. William Septimus Losh, of Wreay Syke, in the county of Cumberland, Esquire, for an invention of "Improvements in the preparation of size, which may also be used as a waterproof varnish or coating."—Dated 28th October, 1856.

2539. Thomas Clutton Salt, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "A new or improved method of coating with glass or enamelling surfaces of cast iron."—Dated 29th October, 1856.

2578. Samuel Middleton, of No. 15, Porter Street, Newport Market, in the county of Middlesex, for an invention of "Improvements in the manufacture of certain articles of leather without seams."—Dated 3rd November, 1856.

28th October.

2530. Joseph Armstrong, of Normanton, in the county of York, Engineer, for an invention of "Improvements in the permanent way of railways."—Dated 28th October, 1856.

2541. Thomas Smith Henzell, of South Shields, in the county of Durham, Ship Owner, for an invention of "Improvements in the construction of ships or vessels."—Dated 29th October, 1856.

2547. John Thomas Way, of Welbeck Street, in the county of Middlesex, for an invention of "Improvements in obtaining light by electricity."—Dated 29th October, 1856.

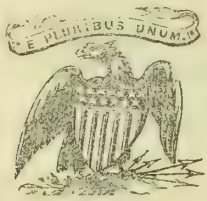
2569. James Coul Sinclair, of Elgin, in the county of Moray, North Britain, Accountant, for an invention of "Improvements in treating, preparing, and drying agricultural produce."—Dated 1st November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 28th October*, 1859.)

579. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in machinery for cutting corn and other standing crops."—A communication from John H. Manny, of Waddam's Grove, in the county of Stephenson, and state of Illinois, in the United States of America.—Dated 30th October, 1852.

710. James Noble, of Leeds, in the county of York, Manufacturer, for an invention of "Improvements in combing wool and other fibres."—Dated 11th November, 1852.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 11th October, 1859, and each bearing that date.

No. 25,709. W. H. ALLEN and A. J. BENTLEY, of New York, N. Y., for an "Improved rope nipper."

"We claim the rope pincers composed of the grooved pivoted jaws D and levers A, and otherwise constructed as herein shown and described."

No. 25,710. THOS. C. AVERY, of New York, N. Y., for an "Improved galvanic battery."

"1st, I claim the use of the insulating amalgam, substantially as described, in combination with the surfaces of the zincs of galvanic batteries for telegraphic purposes, for obtaining the results herein-before set forth. 2d, I also claim the use of two or more independent strips of platinum in the construction of galvanic batteries for telegraphic purposes, as an improvement on the grove battery, for the purpose of obtaining the results herein-before set forth, but irrespective of their use, in combination with the insulated amalgamated zincs before described, I make no claim to them."

No. 25,711. AUGUSTUS BAILEY, of Gardiner, Me., for an "Improved machine for bending wood."

"I claim the combination of the aforesaid horizontal sliding roll (G) and graduated hook (Q) with the semi-cylinder (A), acting substantially in the manner and for the purpose herein set forth and described."

No. 25,712. JAMES D. BALDWIN, of Columbus, Geo., for an "Improvement in composition for paint oil."

"I claim as a new or improved article of manufacture, the paint oil composed of the ingredients herein specified, essentially in the proportions named and prepared, substantially as described for use, as herein set forth."

No. 25,713. W. D. BALLARD, of Kansas City, Mo., for an "Improvement in steam boiler furnaces."

"I claim the arrangement of the fireplace B, the partitions *f*, *f*, *g*, *h*, *h*, of the setting and the chimney E, substantially as herein described, with the two flued boiler."

No. 25,714. GEO. F. BENCKERT and DAVID H. BENCKERT, of Philadelphia, Pa., for an "Improved signal bell."

"We claim, 1st, the latch D, operating with the hammer and pull bar, with the one spring, as specified. 2d, placing the working parts of a signal bell within the sounding box, substantially as and for the purpose herein specified."

No. 25,715. SOLOMON E. BLAKE and THOS. JOHNSTON, of Louisville, Ky., for an "Improvement in hemming guides for sewing machines."

"We claim, 1st, the combination and arrangement of the spiral tongue G, flanged roller F, *f*, and yielding plate B, for the purpose set forth. 2d, the spring plate B, B^1, constructed as described, with an oblique slot in the limb B, combined with the adjustable gauge C, in the manner and for the purpose set forth. 3rd, the yielding pressure roller K, adapted and applied, substantially as set forth, to smooth and flatten the hem, previous to stitching."

No. 25,716. REINHOLD BOEKLEN, of Jersey City, N. J., for an "Improvement in connecting rods applied to cranks."

"I claim giving the rod elasticity both longitudinally and in a lateral direction, parallel with the plane of revolution of the crank, by extending it in the form of a bow or arc beyond the crank pin or wrist, and making such bow elastic, substantially as and for the purpose specified."

No. 25,717. JOHN K. BOOTON, of Luray, Va., for an "Improvement in machines for breaking and cleaning hemp."

"First, I claim the combination and arrangement of the cylindrical grating J, J, K, K, K, and lever arms *x*, *x*, *y*, *y*, and swords Z, Z, and concave grating b^2, b^2, with the hurder cylinder P, formed with alternate plain edge and serrated ridges or ribs *q*, *r*, *q*, *r*, substantially as set forth and described. Secondly, I claim the combination and arrangement of a fan or blast wheel c^2, c^2, c^2, with the hurder cylinder P, *q*, *r*, and endless apron *u*, *u*, substantially as set forth and described."

No. 25,718. L. BRADLEY, of Tolsom, Cal., for an "Improved telegraphic machine."

"I claim, 1st, arranging the type and mechanism for closing the circuit, substantially as described, or in an equivalent manner, so that a double closing of the circuit is effected, as each tooth of the type comes in contact with the closing mechanism. 2nd, the combination of the type and composing sticks, with a yielding insulating plate, carrying the mechanism for breaking and closing the circuit, whereby the contact of the closing mechanism with the face of the type is insured. 3rd, the vibrating hook (*g*) and bar (*i*), or their equivalents, in combination with a yielding insulating plate and type and sticks, for the purpose of closing the circuit. 4th, the combination of the composing stick and type, with the spring (*c*), or its equivalent, arranged substantially as described, so that the type are made to form a portion of the circuit, for the purpose set forth. 5th, the combination of the carrying band and mechanism for closing the circuit, with the composing sticks and type arranged on the band, in relation to each other, substantially as described, so that the sticks are successively carried forward in the order in which they are arranged, brought into the current, and the message transmitted without interruption. 6th, the combination of the movable platform, carrying the recording mechanism with the rotating cylinder, carrying the record paper, arranged substantially as described, so that the message, as transmitted, is recorded in parallel lines on the paper. 7th, constructing the composing sticks and types, substantially as described, so that the sticks, when filled with the type, shall present an even and flat surface on either side. 8th, the application of a syphon pen, constructed and arranged substantially as described, for the purpose of recording the messages. 9th, the inclined plane B, arranged substantially as described, in combination with the band D, whereby the composing sticks are received from the band, in such manner as not to interfere with each other's delivery, and in the same order in which they were placed on the band."

No. 25,719. T. B. BURTIS, of Chicago, Ill., for an "Improved refrigerator."

"I claim the employment or use of the ice chamber B, water chamber C, air passages D, E, G, and a series of provision chambers F, arranged relatively with each other, for the purpose set forth."

No. 25,720. JOHN BUZBY, of Moorestown, N.J., for an "Improvement in grate bars."

"I claim making the mortises in and the tenons on the grate bars, alternately one above the other, or one side of the other, so that the mortises may be made entirely through the bar, without interferring with the tenors, and so the tenons may extend entirely through the bar, without interferring with one another, and be made so long as not to be drawn out of the mortises by the warping or springing of the grate bars."

No. 25,721. A. S. CAPRON and D. S. DAVIS, of Grass Lake, Mich., for an "Improvement in potatoe diggers."

"I claim the arrangement of axle B, wheels A, A^1, and wheel C, pinion F, crank and shaft E, guides *e*, *e*, roller *x*, rake D, apron H, and hooks *i*, *i*, the whole being connected together, and operating substantially as and for the purpose specified."

No. 25,722. TISDALE CARPENTER, of Providence, R.I., for an "Improvement for operating the valves of steam engines."

"What I claim as my invention and improvement in devices for operating the induction valves of steam or gas engines, so as to supply and graduate the steam or gas, in proportion to the power or resistance to be overcome, and cut off the steam or gas when it is no longer required, is the adjustable graduated scroll-shaped side cam, so arranged as to be traversed and adjusted, by a regulator or governor, while the engine is in motion, substantially as described, or adjusted and fixed or set by hand, while the engine is stopped."

No. 25,723. SAML. CHACE, of Providence, R.I., for an "Improvement in awnings."

"I claim the application of the various devices before described, viz., the gear toothed tracks C, C, with the pinions E, E, also the dogs G, G, and finally the box or covering K, to an awning, the whole being constructed substantially as and for the purposes set forth."

No. 25,724. JAMES S. COLVIN, of Alleghany, Pa., for an "Improved gasket for steam and other joints."

"I claim a joint gasket, composed of a ring of india rubber, incased with copper or other metal, substantially as herein described."

No. 25,725. NORMAN COWLES and A. HULBERT, of Edgefield, S.C., for an "Improvement in spring back carriage seat."

"We claim the employment of springs D, D, substantially as described, when in connection with a back B, supported by hinged uprights, in the manner and for the purposes set forth."

No. 25,726. BIRAM C. DAVIS, of Binghamton, N.Y., for an "Improved hand machine for wiring blind rods."

"I claim, first, the setting form 'A' which sets over the rod 'C,' and straddles the slats 'D,' and which is secured under the blind by means of the stationary bar 'B,' in such a manner as to set the staples through the eye of the staple in the rod (C) into the slats 'D,' 'D,' being the equivalent means employed for setting the staples into the rod 'C,' in combination with the adjustable arrangement 'K,' operating substantially as described. Second, I claim, in combination with the form 'A,' the joint lever 'G,' flange rod or driver (H), dividing slide 'I,' inclined needle bar 'J,' the whole being arranged substantially as described, and for the purpose set forth."

No. 25,727. E. DOUGHERTY, of Cedarville, O., for an "Improved wheelwright machine."

"I claim the combination of devices as herein specified substantially as and for the purposes set forth."

No. 25,728. H. F. DROTT, of Cumberland, Md., for an "Improved shutter hinge."

"I claim the employment of the spring E, as constructed, when used in connection with the plate *n*, as constructed, the two being used in combination with any common shutter hinge, substantially as and for the purpose specified."

No. 25,729. B. WELLS DUNKLEE, of Boston, Mass., for an "Improvement in furnaces."

"For the purpose of warming and ventilating a number of rooms simultaneously, I claim the general arrangement as above described of the space Q, the chamber or dome I, the dampers M and N, and pipe or T, L, and the ventilating pipe S, and smoke drum G, and ventilating pipe P, and smoke pipe *t*, and air duck R, and series of dampers in flues F, in relation to each other, and with respect to the flue F, and hot-air chamber E, the whole being made to operate substantially in the manner and for the purposes as above set forth."

No. 25,730. WM. O. GROOVER and WM. E. BAKER, of Boston, Mass., and O. B. POTTER, of New York, N.Y., for an "Improvement in sewing machines."

"We claim a non-penetrating instrument, and a piercing eye-pointed needle, acting together to make an interlocking of threads, substantially such as is represented, in combination with a clamping apparatus, acting substantially as specified, the combination being substantially such as is set forth, and acting to make a double looped stitch, substantially in the manner described. And, second, we claim mounting a spool or bobbin, from which thread is to be delivered for the purpose of sewing by machinery upon two truncated cones, substantially as herein-before set forth."

No. 25,731. HORACE GUSHEE and JOHN G. DAWES, of San Francisco, Cal., for an "Improvement in beehives."

"We claim the combination of the comb-formed D, rods E, staples a^1, *a*, and cleat H, arranged as described, whereby the comb frames may be readily removed or inserted in the manner described, and for the purpose specified."

No. 25,732. JOHN R. GUY, of Springfield, O., for an "Improved bedstead."

"I claim the arrangement of the frame C, D, E, with reference to the heads B, A, and their connection by means of the joints H, G, and slides I, and plates J, or their equivalents substantially as described."

No. 25,733. JOSHUA HENDY, of San Francisco, Cal., for an "Improved double friction coupling."

"What I claim is, the application of two such truncated cones to one coupling, one at either end, and operated by a single lever, so as to work in cavities or conical sleeves, attached to pulleys or wheels, arranged on one shaft, so that said shaft may be run slow or fast, or backward or forward, or entirely stopped, without stopping the prime motor or changing its speed, substantially as herein set forth and explained."

No. 25,734. HATSEL HIGGINS, of Orleans, Mass., for an "Improved steering apparatus."

"I claim the arrangement substantially as specified of the rudder head intermediately between the supports, which respectively serve as bearings to the hand wheel shaft, and the rudder operating gear, said shaft extending back of and over said gear, whereby the rudder may be operated either by the gear or by a tiller from the wheel shaft as described, and also compactness of the steering apparatus and economy of deck space is obtained."

No. 25,735. ISAAC H. HOBBS, ABRAHAM W. RAND and GEO. H. SELLERS, of Philadelphia, Pa., for an "Improvement in hot-air furnaces."

"We claim, 1st, the general arrangement of the subdivided air chamber in connection with the separate receiving and discharging openings, substantially in the manner and for the purpose specified. 2nd, we also claim the deflecting diaphragms in combination with the above-described arrangement, in the manner substantially and for the purpose set forth."

No. 25,736. SIDNEY S. HOGLE, of Cleveland, O., for an "Improvement in rotary harrows."

"I claim the combination of a series of individually rotating toothed frames or wheels with a rotating central frame or wheel in such a manner that the said parts will operate substantially in the manner herein set forth."

No. 25,737. D. E. HOLMES, of Halifax, Mass., for an "Improved clothes frame."

"I claim the combination of the standards A, A, horizontal hinged frames C, C, when the same are sustained and braced by slotted braces F, F, all arranged substantially in the manner as and for the purposes herein set forth."

No. 25,738. BOLD R. HOOD, of Clinton, N. C., for an "Improvement in ploughs."

"I claim the combination of the standard D, with the standard C, and land sides E, when these parts are constructed as described, and adapted to receive the various forms of shovel points and mold boards in use, in the manner described for the purpose specified."

No. 25,739. WM. H. JOHNSON, of Springfield, Mass., for an "Improved telegraphic cable."

"I claim an electro-telegraphic conductor constructed in the manner and for the purpose set forth."

No. 25,740. W. M. KEAGUE, of Brooklyn, N.Y., for an "Improved omnibus register."

"I claim, first, the arrangement and combination of the platform D, vibrating lever C, and adjustable spring G, sub-

stantially as and for the purpose specified. Second, in combination with the platform D and spring G, I claim the sliding bar H, spring catch n, and wheel K, substantially as and for the purpose described. Third, arranging the step A in combination with the registering apparatus substantially as described, so that it registers half fares as well as full fares."

No. 25,741. Miles Keely and G. W. Cressman, of Barren Hill, Pa., for an "Improvement in hydraulic motors."

"We claim the arrangement and combination with the levers M, lever frames K, L, and bottoms (k) of the adjustable slots (r), and bars (t), which the speed of the machine, length of stroke of the levers, and distance of water may be regulated at pleasure as herein shown and described."

No. 25,742. Archibald C. Ketchum, of New York, N.Y., for an "Improvement in tea kettles."

"I claim the combination of the tin top, copper bottom, and sheet iron skirt, when the same are all united by one and the same lap joint, and just below the spout of the kettle as described and represented, constituting a new article of manufacture."

No. 25,743. Isaac R. Lawrence and Geo. E. Gould, of Green Island, N.Y., for an "Improvement in endless chains for horse-power machines."

"We claim, first, extending both the lags A and the links B of such chains to or beyond the threads q of the friction wheels c, carried by axles h, cast on the links substantially as and for the purpose herein described. And second, we also claim forming and arranging projections r and s, in the links B of the chain substantially as and for the purpose herein set forth, the links being provided with male lugs d, and female lugs f, substantially as herein described."

No. 25,744. Lucius Leavenworth, of Trumansburgh, N. Y., for an "Improvement in straw-cutters."

"I claim the arrangement and combination of the rockers C and E, and springs d, substantially as described, for the purpose of giving a double motion to the knife, and to avoid friction of the working parts."

No. 25,745. Sylvester Marsh, of West Roxburg, Mass., for an "Improved apparatus for stirring and delivering grain."

"I claim, 1st, the combination, with the reticulated bed, or other suitable drying table of a reciprocating truck, armed with paddles or stirrers, for agitating the grain on the drying surface. 2d, the arrangement, substantially as specified, of the truck paddles in rows, one in advance of the other, and the paddles of each preceding row intermediate of those next behind them. 3d, giving to the paddles of the reciprocating truck an oblique set for and during the forward travel of the truck, and giving them an edge presentation or set for and during the back travel of the same, essentially as and for the purposes set forth. 4th, giving to said paddles reverse obliquities for and during the forward travel of the truck, so as to throw the grain alternately to the right and to the left in the feed forward of the grain by the paddles. 5th, the combination with the reciprocating truck and its paddles of a cross sliding frame, made to gear by cranks, or their equivalents, with the several paddles, for simultaneously changing the latter from an oblique to a straight set, and vice versa, substantially as specified. 6th, the combination with the cross sliding frame to the reciprocating truck of one or more adjustable inclines and stops, for automatically reversing the position of the paddles in their one direction. 7th, drawing the cross frame back to its original position to give the paddles a different set by means of a clip lever, acted on by a weight, weighted catch, and inclined projection, connected with the reciprocating truck, or their equivalents; also afterwards returning said lever to its former position, to be locked by the weighted catch, by an inclined plane on the truck acting against and over a swell on the lever, substantially as herein set forth. 8th, varying the range of motion of the reciprocating truck on or over the drying surface, and relatively to the feed or delivery ends thereof, by means of a lengthening and shortening driving pitman, made adjustable, substantially as specified."

No. 25,746. Andreas Maurer, of New Carlisle, Ind., for an "Improvement in seed planters."

"I claim the arrangement and combination of the vertically moving and seed-distributing supporting axle D, seed boxes E, and lever F, as and for the purpose herein shown and described."

No. 25,747. Thos. J. Mayall, of Roxburg, Mass., for an "Improvement in method of combining emery with caoutchouc."

"I claim the new process herein described, of making emery sharpening and polishing tools, by combining emery with india rubber, gutta percha, or other substances, and then submitting the same, while under great pressure, to a high degree of artificial heat, substantially as set forth, whereby, with a given quantity of rubber, emery may be combined in much greater quantities than it could be heretofore done."

No. 25,748. James McAleer, of Chambersburg, Pa., for an "Improvement in harvesters."

"I claim the arrangement of the two seats D, D^1, one facing at right angles to the other, conducting trough and binding table F, F^1, and the elevating device C, all for use together, in the manner and for the purpose herein described."

No. 25,749. J. McDougall, of Masonville, Mich., for an "Improved mode of forming joints in india-rubber belting."

"I claim the employment, in combination with the belt ends A, B, of the tongues and cavities (c, c), so that the sides of the tongue portion shall be protected by the selvages of the cavity parts, substantially as herein shown and described."

No. 25,750. S. T. McDougall, of New York, N.Y., for a "Traveller's ticket holder."

"I claim the lever C, spring c^1, point i, or their equivalents, in combination with an ordinary shawl pin, the whole constructed and operating as above set forth for the purposes specified."

No. 25,751. James P. McLean, of New York, N. Y., for an "Improvement in skates."

"I claim the arrangement and use of the side or ankle springs (A, A^1), with pads (B, B^1), and instep projections (2 and 3) adjustable or otherwise, in combination with the heel spring (h), having a pad at its top end, and with the cork sole (m), in the form of a shoe or otherwise, as set forth and shown at Figs 1, 2, 3, and 4. Secondly, I claim the combined arrangement and use of the railroad attachment (K, K^1) and (Y, Y^1), as applied to a skate, the same forming a toe-strap loop, if required, in the manner and for the purpose set forth and shown in the drawing."

No. 25,752. James C. Miller, of Union Township, Pa., for an "Improvement in horse power locomotive."

"I claim horse-power sweep levers, connected with one or more ground wheels, substantially as described, and for the purpose specified."

No. 25,753. Geo. F. Milliken, of Somerville, Mass., for electro-magnetic burglar alarm."

"I claim the combination of a galvanic battery, an electric circuit, a circuit breaker, operated by a window or door, with a step by step indicator, substantially as herein described. I claim causing a window or door automatically to prevent any alteration upon the circuit during the closing of the window or door, until it is nearly clearly closed, in any manner, substantially as herein described. I claim the use of the armature J, for the double purpose of regulating the movements of the points, and setting in motion the alarm apparatus."

No. 25,754. B. S. Morgan, of Delhi, Iowa, for an "Improvement in cultivators."

"I claim the arrangement and combination of the side wings D, and wheels H, H, I, of a cultivator, with the levers h, h, i, bar d, rods e, and hand lever f, substantially as and for the purpose specified."

No. 25,755. Wm. A. Morrison, of Morrisania, N. Y., for an "Improved boot and shoe brush and scraper."

"I claim the arrangement of the spring B, in combination with screws A, in such a manner as to throw the brushes C forward parallel with the scraper D, as and for the purpose specified."

No. 25,756. Abel R. Nixon, of Rhea Spring, Tenn., for an "Improvement in hand loom."

"I claim, in combination with the lay beam and spring pricker stalls, the toggle levers *b*, *b*, triggers *f*, *f*, and flexible connections *e*, *h*, for effecting the setting and tripping of the picker staff, substantially as described. And I also claim, in combination with the lay and the treadles for working the harness or sheds, the toggle levers *q*, and trigger cords *h*, so that the shed shall be properly made before the trigger is drawn, to let the shuttle fly, thus ensuring a perfect sequency of operation, and with great saving of manual labor on the part of the operator, as set forth."

No. 25,757. Saml. Page, of Chelsea, Mass., for an "Improved varnish."

"I claim the above described varnish, made of the materials specified."

No. 25,758. Wm. Munroe, of West Auburn, Me., for an "Improvement in sole cutting machines."

"I claim, 1st, the arrangement of the vertical slots *i*, *i*, in the arbor E, elastic bars *q*, *r*, with their projections *s* fitting respectively in said slots. The weight P, bar *f*, and the shafts I, N, provided respectively with the cam K, spring P^1, pinion M, part pinion L, and strap O, substantially as described, to operate the arbor E, and its die or cutting flanch *l*. 2d, the stop S attached to a shaft Q, provided with springs j^1, *k*, and actuated by the pin *h*, on the rod F, and the notched block f^1 attached to the bar R, substantially as and for the purpose set forth."

No. 25,759. Henry Pfarrer, of New York, N.Y., for an "Improvement in gear cutting engines."

"I claim a pattern *t*, mounted on a shaft or spindle, which also carries the gear to be cut, in combination with a fixed dog or guide *u*, when said dog or guide is so located that the pattern runs off, and is clear of the same, so as to be turned at the time the gear is clear of the cutter, and said pattern again takes and is held by said dog, as the cutting commences, and is proceeded with, as set forth. I also claim the arrangement of the lever *x*, pawl *y*, and adjustable stop *z*, to give motion to the pattern *t*, when not in contact with the stop or dog *u*, as described and shown. In combination with the pattern *t* and dog *u*, I also claim the stok *p*, carrying the shaft or spindle *s*, and actuated by the lever *k*, for the purposes as specified."

No. 25,760. Mathieu Philippi, of Troy, N.Y., for an "Improvement in key board for pianofortes."

"I claim so constructing the upper surfaces of the keys of a pianoforte, that while the ordinary form of the key board is retained, portions of all the keys are brought to the same level in the key board, substantially as and for the purpose herein described."

No. 25,761. Henry B. Ramsey, of Indianopolis, Ind., for an "Improvement in harvesters."

"I claim the combination of the frames N, O, and K, chain L, chain wheel M, crank V, screw rod X, friction bearers *b*, *b*, and grain table Y, when these several parts are constructed and arranged for operation in the manner and for the purpose set forth."

No. 25,762. L. B. Richardson, of Athol, Mass., for an "Improvement in lasting pincers."

"I claim the application of a swinging fulcrum to lasting pincers, constructed and arranged substantially in the manner and for the purpose set forth in the above specification."

No. 25,763. Robt. E. Rogers, of Philadelphia, Pa., for an "Improvement in umbrella frames."

"I claim combining with the tubular ribs and stretchers, constructed as herein described, the means of uniting the ribs and stretchers, and for strengthening the tubular parts of the frame, as herein set forth."

No. 25,764. Wm. Seeley, of Chillicothe, Ill., for an "Improvement in cultivators."

"I claim the arrangement of the post D, arms E, cross-bar F, lever H, wheels W, shovels B and C, chains R and Q, arms U, cross bar K, vertical lever Y and Y^2, rods Z, whiffle tree X, and draft hook A^2, the whole being constructed and combined in the manner and for the purpose above described."

No. 25,765. Joseph Seymour, of Syracuse, N. Y., for an "Improvement in making spoons."

"I claim the machine known as 'the rolls,' having the form or figure of any article to be made up plain, of silver or other metal, cut upon one or both of them, so much larger than the same article when finished that the article itself can be cut with a punch of the desired size and shape out of a piece of metal after it has been passed between the rolls, and entirely within the margin or edge of the impression made upon the metal by the form or figure cut into one or both of the rolls, substantially as herein described and set forth."

No. 25,766. H. O. Sheidley, of Republic, O., for an "Improved invalid bedstead."

"I claim the combination of the sliding hinged bottom B, B^1, B^{11}, with the crank shaft, cords, and attached levers, and the movable foot board F, substantially as and for the purposes set forth."

No. 25,767. John H. Shrote, of Baltimore, Md., for an "Improvement in cutting and panning cakes."

"I claim the cutters A, as constructed, or its equivalent, in combination with the pan E and bottom board D, for the purposes of facilitating the cutting and removing the cakes to the oven, as set forth and described."

No. 25,768. Charles R. Smith, of Haverhill, N.H., for an "Improved device for bracing and ventilating fence posts."

"I claim, 1st, the peculiar construction and arrangement of the wire loop K, in combination with one pair of braces, a post, and a sill, substantially as and for the purposes set forth. 2d, the grooved post E and the grooved cleats D and F, in combination with the lengthwise boards or slats B, B, B, B, substantially as and for the purpose set forth."

No. 25,769. H. D. Snow, of Rochester. N. Y., for an "Improvement in governors for steam and other engines."

"I claim the use of collar T, first, to control the passage of steam through the valve A on starting the engine. Secondly, to control the extreme downward movement of the valve A, by means of stops I, I, so connected with the valve openings E, E, as to close them at either extreme of the movement. I also claim locating the weight X beneath and partially entering the tube of the valve A, as represented in figure 2."

No. 25,770. C. M. Spencer, of Manchester, Conn., for an "Apparatus for cutting and attaching labels."

"I claim the cutting and affixing labels upon spools by one or the same action of a machine, as the dies M, L, or the tubular cutters *e*, follower *c*, or their equivalents, substantially in the manner as and for the purpose described."

No. 25,771. Joseph Andrew Stephan, of Lafayette, Ind., for an "Improvement in adjustable rails for replacing cars on the track."

"I claim, first, the fish pieces B, C, D, clamped to the permanent rails A, A, and elevated high enough above said rails to carry the flanges of the car to be replaced over them, substantially as described. And I also claim, in combination with an elevated temporary track secured to, and high enough above the permanent track, to carry over the flanges of the wheels, the sections G, G^1, and their switches *e*, *h*, extending to each of the pairs of wheels of the car, said sections having all the elements of switches, frogs, and rails, substantially as described."

No. 25,772. David Stewart, of Annapolis, Md.' for an "Improved method of preparing bones for fertilizing purposes."

"What I claim as my improvement in the preparation of bones for fertilizing purposes, is the stratification of the bones with materials, animal, vegetable, and mineral, substantially in the order and upon the principles herein set forth, using the materials above designated, or their equivalents, whereby bones are reduced in a most economical manner to an available condition for manure, and a thorough compost obtained, adapted to all the necessities of growing and fruiting plants, without any mechanical labour, other than that of stratifying, cutting down, and screening, as herein above set forth."

No. 25,773. Wm. H. Tambling, of Berlin, Wis., for an "Improved milk safe."

"I claim the within described safe as an article of manufacture, constructed in the particular manner set forth, to wit, with gauze wire sides and doors, and with shelves, which consist of longitudinal slats C, C, to which are secured a series of wooden cross slats D, D, which are made broad at their base, and beveled to an edge on their tops, the whole being arranged together, and used in the manner and for the purpose specified."

No. 25,774. Wm. H. Tambling, of Berlin, Wis., for an "Improved washing machine."

"I claim, 1st, the arrangement of the buckets (D, D), in the four corners of the interior of the box A; said buckets being made in a triangular form, and open at one angle as at x, x, the same being used in the manner and for the purpose specified. 2nd, the arrangement of the bars a, a, as provided with pins n, n, and in the forms represented, when used in connection with the box A, and the buckets (D, D), as constructed, the whole operating substantially as and for the purpose specified."

No. 25,775. Francis C. Treadwell, Jr., of New York, N.Y., and Henry McCollum, of Windham, Conn., for an "Improved mode of making cylindrical strips of dough, in the manufacture of crackers."

"We claim the above described improved method of forming skin covered strips from a sheet of previously smooth rolled dough, by passing it between a pair of grooved rollers, arranged and constructed substantially as herein-before described, with the groove separated by portions of the plane surface of the rollers."

No. 25,776. John G. Treadwell, of Albany, N.Y., for an "Improvement in apparatus for ventilating railroad cars."

"I claim the arrangement in the boxes A^1, of the porous partitions C, C, and the pipe e, provided at its lower end with a sprinkler O, when the same are used in connection with the openings D, substantially in the manner and for the purpose specified."

No. 25,777. Isaac Wait, of Watertown, N.Y., for an "Improvement in grain cleaners."

"I claim the combination of the separating sieves and the burr surfaced plates, by means of the vibrating lever, which gives a contrary motion to each, at every revolution of the wheel, or crank, substantially in the manner and for the purpose herein described."

No. 25,778. John Walker, of Sunbury, O., for an "Improved locomotive cross-cut sawing machine."

"I claim, 1st, the arrangement of an upright steam engine A on a truck frame B, with a horizontal crank shaft D, and a vibrating saw L, substantially as herein set forth, 2nd, the employment of conical pulleys Q, Q^1, Q^2, Q^3, and shiftable bands R, R, in combination with the other machinery and the engine which operates the saw for the purpose of guiding the machine when moving from place to place, substantially as and for the purposes set forth."

No. 25,779. Caleb C. Walworth, of Boston, Mass., for an "Improvement in cutting screw threads on gas pipe."

"I claim the combination of two or more mandrels parallel or nearly parallel to each other, and arranged to carry cutting tools with two or more vises, when these are arranged to revolve around a common center. I also claim the combination of two or more sets of mandrels, as above, with two or more sets of vises, as above, when each set of mandrels is arranged to operate in unison with its corresponding set of vises. I do not herein intend to claim the arrangement of two or more vises, so as to revolve about a common center, and locking the same in any desired position, as such an arrangement was described by me in the American Patent, numbered 15,862, and in the English Patent, numbered ; but I do claim the combination of two or more series of vises, one beyond the other, and arranged to revolve about a common center. I also claim operating two or more vises independently of each other or together, by one wrench, and by the means and in the manner substantially as specified."

No. 25,780. Daniel Winder, of Cincinnati, O., for an "Improved bed bottom."

"I claim the combination of the rings a and b, and tension screw c, operating in connection with a radial bed cord or webbing, in the manner and for the purpose set forth."

No. 25,781. Oliver Evans Woods, of Philadelphia, Pa., for an "Improved life-preserving buoy."

"I claim a buoy arranged with two frames A, A^1, stays D, and cross braces E, and with a valve or valves F, and otherwise constructed and operated as herein described."

No. 25,782. Francis G. Woodward, of Worcester, Mass., for an "Improvement in sewing machines."

"I claim the peculiar manner of working the looping hoop d by means of the wheel F and the double joint E, substantially as specified."

No. 25,783. Le Roy S. White, of Waterbury, Conn., for an "Improved burnishing machine."

"I claim, 1st, the arrangement of the burnisher or burnishers in a burnishing machine in a sliding gate, or its equivalent, carried by and working perpendicularly to a rectilineally reciprocating shaft, or its equivalent, substantially as and for the purpose herein described. 2nd, providing for the burnisher or burnishers employed on one side of the article to be burnished in a so applied gate, or its equivalent, such a movement independently of that or those employed on the opposite side, substantially as herein described, as to produce the greater movement that is necessary or desirable for the reason herein-before explained on the convex side of any article of curved form. 3rd, fitting a burnisher in a burnishing machine to a suitable holder g, or its equivalent, in which it is permitted a free vibration laterally to the movement it makes in the burnishing operation, substantially as and for the purpose herein specified."

No. 25,784. Geo. W. Banker, of Medford, Mass., assignor to himself and G. O. Carpenter, of South Reading, Mass., for an "Improved mode of manufacturing barrels, &c."

"I claim the method herein described of securing the heads of casks by means of the chamfer 5 and shoulder e, as described. 2nd, I claim a keg furnished with ears and a bale as above described, for the purpose specified."

No. 25,785. Oliver D. Barret, of Cleveland, O., assignor to himself and Sears E. Smith, of same place, for an "Improvement in sewing machines."

"I claim, first, the crank consisting of the disk Q, and pin O, in combination with the pin O^1, in the pulley Q^1, and hinge R, whereby I am enabled to turn the machine up from the table designated for it to stand on, in order to adjust or thread the under needle d, without unbanding the machine, substantially in the manner and for the purpose herein described. Second, hinging the foot holder F to the head of the goose neck B, in a position vertical to the feeding surface of the feeder Y, substantially in the manner and for the purpose herein described. Third, the foot holder F, constructed and hinged as set forth, in combination with the rod H, spring I, foot K, and feeder Y, substantially in the manner, and for the purpose set forth."

No. 25,786. Thos. A. Earl, of North Attleborough, Mass., assignor to himself and Charles A. Durgin, of New York, N. Y., for an "Improvement in bustles."

"I claim the segment c, supported as described, in combination with the projecting strut E, slide F, and strip G, the whole being constructed and operated substantially as set forth and described."

No. 25,787. Wm. Gluyas, of San Francisco, Cal., assignor to himself and Wm. H. O. Neill, of same place, for a "Composition for preparing gold and silver ores for amalgamation."

"I claim the mixture or composition herein-before described, used with pulverized ores or tailings, the whole being brought to a boiling heat, and being constantly agitated, thereby preparing the precious metals for a more perfect amalgamation with quick silver."

No. 25,788. Stoughton B. Holden, of Woburn, Mass., assignor to himself and Parker Nichols, of Reading, Mass., for "Burglar's alarm."

"I claim the rrrangement of the candle carrier D, and its hammer b, upon the torped o post, or standard B, the trigger lever g, and the grater or friction plate C, the whole forming an improved, efficient, and simple alarm, to operate as specified."

No. 25,789. JOHN S. LASH, of Carlisle, Pa., assignor to himself and Franklin Knauss, of Allentown, Pa, for an "Improvement in straw cutters."

"I claim forming the bed F, in sections *c*, each being provided with a spring *e*, and having the spiral beaters or followers provided with shoulders *g*, substantially as shown, to prevent the lateral movement of the straw or stalks, in the feed-box, under the action of the beaters or followers."

No. 25,790. ALFRED MARSH, of Detroit, Mich., assignor to John Q. Dudley, of same place, for an "Improved method of preventing deposition of carbon in gas retorts."

"I claim the introduction into the retort during the gas making process of chlorate of potash, or other substance, which evolves oxygen, when heated for the purpose set forth."

No. 25,791. CHARLES O'BRYAN, of Salem, Ohio, assignor to himself and Joseph S. Haldeman, of same place, for an "Improved tool for cutting round tenons."

"I claim the combination of the hollow conical head A, external nut B, and plate C, constructed and arranged as described, for adjusting and holding when adjusted, the bits or cutters, or their guides, substantially as represented."

No. 25,792. ROBT. PATTERSON, of Philadelphia Pa., assignor to Horace Vaughn, of Providence, R. I., for a "Solution for thinning lubricating compound."

"I claim a thinning solution applicable to the reduction of the lubricating compound described in the Patent of Vaughn and Hutton, dated 2nd August, 1859, made of the substances, and applied substantially in the manner specified."

No. 25,793. THOS. D. RICHARDSON, of New York, N. Y., assignor to Wm. Richardson, of same place, for an "Improvement in pen and pencil holder."

"I claim the arrangement and combination of the elongated tube (*h*), with the handle A, and the tubes B, C, as and for the purpose herein shown and described."

No. 25,794. NATHAN C. TRAVIS, of Alton, Ill., assignor to himself, Nathan Johnson, and Richard Emerson, of same place, for an "Improved regulator valve for steam engines."

"I claim, 1st, the arrangement and combination of the valve box A, and casing C, as and for the purposes shown and described. 2nd, the arrangement and combination of the screw socket *k*, stem (*j*), rod (*l*), arm (*p*), groove (*q*), and band wheel J, so that by turning the band wheel J the stem (*j*) may be elevated and depressed, irrespective of the rise and fall of the rod (*l*), and without rotating the latter, all as herein shown and described."

RE-ISSUE.

JEREMIAH STEVER, of Bristol, Conn., for an "Improvement in machines for burnishing metals."—Patented 1st May, 1855.—Re-issued 11th October, 1859.

"I claim, 1st, the burnishing of silver plated and other metallic ware, such as spoons, knives and forks, or other similar articles which have a concave, convex, or bevel surface, by an organized machine, requiring no other attention than being kept in proper order, adjusted to suit the article about being burnished, set in motion, and having the articles properly introduced to it successively, substantially in the manner herein set forth."

DESIGNS.

ROSWELL KIMBERLY, of Ansonia, Conn., for a "Design for clock case front."

"I claim the semi-octagonal top, in combination with the corner blocks and tips, when the whole is constructed, arranged, and made to present the symmetry of the new design, as herein described and represented."

JAMES H. MCLEAN, of St. Louis, Mo., for a "Design for trade mark."

"I claim the design shown by the annexed drawing, and described herein, to be used as a trademark upon an article of manufacture, with the name thereon inscribed."

ADDITIONAL IMPROVEMENT.

DOUGLAS BLY, of Rochester, N. Y., for an "Improvement in attaching thills to vehicles."—Patented 12th April, 1859.—Additional improvement dated 11th October, 1859.

"I claim, combining with the hook A a coller G, having a reverse hook or lip K, corresponding with the point A, to form an eye therewith, together with the screw shank and binding nut H, substantially as and for the purpose herein specified."

EXTENSION.

LEWIS EDWARDS, of Norwich, Conn., for an improvement in "Ruling machines." — Patented 9th October, 1845.

"I claim, the causing the pens to be raised by the edge of the paper in its passage through the machine, thus causing each sheet to determine the length of its own lines."

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Mornings - - - -	1400
Evenings - - - -	579
Total - - -	1979

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On his petition, recorded in the Office of the Commissioners on the 31st day of August, 1859.

2178. To GEORGE ADDENBROOKE, of Greenhill Wimbourn, Wolverhampton, for the invention of "Improvements in raising and lowering boats and other vessels from one water level to another, applicable in inland navigation."

On his petition, recorded in the Office of the Commissioners on the 26th day of September, 1859.

2198. To EDWARD THORNHILL SIMPSON, of Walton, near Wakefield, in the county of York, for the invention of "Improvements in apparatus for condensing distilled fatty matters."

On his petition, recorded in the Office of the Commissioners on the 28th day of September, 1859.

2274. To EDWARD O'CONNELL, of Bury, in the county of Lancaster, Surveyor and Draughtsman, for the invention of "Improvements in apparatus for supplying liquid nourishment to infants, invalids, and others, and for warming or heating the same."

On his petition, recorded in the Office of the Commissioners on the 6th day of October, 1859.

2288. To JOHN DIXON, of the borough and county of Newcastle-upon-Tyne, Engineer, for the invention of "Improvements in apparatus for supplying water to waterclosets."

On his petition, recorded in the Office of the Commissioners on the 7th day of October, 1859.

2302. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "Improvements in the manufacture of paper pasteboard and cardboard."—A communication from abroad by Messrs. Jules, Lagosse and Sons, Manufacturers, and Frederic Quentin, Merchant, all of Paris, France.

On his petition, recorded in the Office of the Commissioners on the 10th day of October, 1859.

2332. To ABRAHAM HOLDEN, of North End, near Stalybridge, in the county of Chester, Manager, and JAMES HOLDEN, of Micklehurst, in the same county, Madder Dyer, for the invention of "Improvements in machinery used in washing, dyeing, sizing, and drying yarn and thread."

2334. To WILLIAM PROSSER, of 24, Dorset Place, Dorset Square, in the county of Middlesex, Gentleman, for the invention of "Improvements in apparatus employed in the production of light."

2336. And to WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Implement Makers, for the invention of "Improvements in reaping and mowing machines."

On their several petitions, recorded in the Office of the Commissioners on the 13th day of October, 1859.

2339. To CHARLES COLLINS, of Lower Road, Islington, in the county of Middlesex, Gentleman, for the invention of "Improvements in the manufacture of grease for lubricating the axles of railway and other carriages, the journals of machinery, and for other like purposes."—A communication from abroad by P. Gailhard Fisse, of Alicante, in the kingdom of Spain.

2342. To JOHN PIERCY HENDERSON, of Summerford House, in the county of Stirling, North Britain, Manufacturing Chemist, for the invention of "Improvements in stopcocks or valves."

2343. To GEORGE PRICE, of Wolverhampton, in the county of Stafford, Fire-proof Safe Manufacturer, for the invention of "Improvements in locks."

2344. To JOHN VARLEY, of Radcliffe, in the county of Lancaster, Engineer, and JEREMIAH CROWTHER, of Bradford, in the county of York, Carrier, for the invention of "Improvements in steam engines and boilers."

2346. To GEORGE GOLDSMITH, of Leicester, Gas Meter Inspector, for the invention of "Improvements in gas meters."

2348. And to HENRY WILLIAM CHAPMAN WISE, of Titchfield, Hampshire, for the invention of "An improved domestic apparatus for making tea, coffee, and other such like beverages."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of October, 1859.

2350. To HENRY CHAPMAN, of Battlebarrow Appleby, in the county of Westmoreland, for the invention of "An improved self-acting safety railway break."

2352. To JAMES FERNIHOUGH, of Dukinfield, in the county of Chester, Engineer, for the invention of "Improvements in the construction of steam boilers and apparatus connected therewith."

2354. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in machinery or apparatus for breaking stones."—A communication from abroad by Monsieur Bac, of Paris, in the empire of France.

2358. To NAPOLEON MONTANARI, of Charles Street, Soho Square, in the county of Middlesex, for the invention of "An improved apparatus for aiding children in learning to walk."

2360. And to JOHN ELDER, of Glasgow, Enginee r for the invention of "Improvements in steam and other engines."

On their several petitions, recorded in the office of the Commissioners on the 15th day of October, 1859.

2362. To WILLIAM KEMBLE HALL, Engineer, of 36, Cannon Street, in the city of London, for the invention of "Improvements in apparatus for manufacturing cotton wadding."—A communication from abroad by John Smith, of New York, in the U.S. of America.

2364. To SAMUEL NEWBERRY, of Burnley, in the county of Lancaster, Manager, and HENRY MOORE, of the same place, Cotton Spinner, for the invention of "Certain improvements in looms for weaving."

2366. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in rotary steam engines."—A communication from abroad by Charles Smith Hathaway, of Athol, Thomas Huston Witherby, and Luke Bucklin Witherby, both of Worcester, and Jonathan Horatio Nelson, of Shrewsbury, all in the county of Worcester, and state of Massachusetts, United States of America.

2368. To WILLIAM NORTON, of Hollybank, in the county of Cavan, Mill Owner and Farmer, for the invention of "Improvements in kilns for drying grain."

2370. To JAMES THOM, Powerloom Manufacturer, and ANGUS KENNEDY, Civil Engineer, both of Glasgow, in the county of Lanark, North Britain, for the invention of "Improvements in looms for weaving."

2372. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in electro-magnetic engines, and in apparatus connected therewith."—A communication from abroad by Messrs. J. S. Rousselot and Company, of Paris.

2374. And to WILLIAM TILLIE, of the city of Londonderry, Manufacturer, for the invention of "Improvements in sewing machines."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of October, 1859.

2378. To ALEXANDER WILLIAM WILLIAMSON, of University College, for the invention of "Improvements in obtaining extracts from poppies."

2380. To JAMES HIGGINS, of Salford, in the county of Lancaster, Machine Maker, and THOMAS SCHOFIELD WHITWORTH, of the same place, Manager, for the invention of "Improvements in machinery or apparatus for preparing and spinning cotton and other fibrous materials."

2382. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in machinery used for preparing for spinning silk, wool, or other fibrous substances."—A communication from abroad by Charles De Jongh, of Guebwiller, in the empire of France.

2384. And to HERMANN HIRSCH, of Berlin, in the kingdom of Prussia, for the invention of "A new propellor for ships."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of October, 1859.

2386. To JOHN HENRY BANKS, of the Mediæval Works, Radnor Street, in the city of Manchester Sculptor, for the invention of "Improvements in machinery for boring, cutting, moulding, and carving wood, stone, and other materials."

2392. To CHARLES SETON, of Edinburgh, in the county of Mid-Lothian, Coach Builder, for the invention of "Improvements applicable to the wheels of carriages generally for the purpose of reducing the draught thereof."

2394. To GEORGE HART, of No. 6, Chapel Street West, May Fair, in the county of Middlesex, for the invention of "Improvements in the manufacture of hats."

2396. And to JOHN BRUCKSHAW, of Longslow, in the county of Salop, and HENRY BRUCKSHAW, of Hinstock, in the same county, Engineers, and WILLIAM SCOTT UNDERHILL, of Newport, in the same county, Manufacturer, for the invention of "Improvements in machinery for elevating grain or other similar substances."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of October, 1859.

2400. To Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in machinery or apparatus for compressing and making caps for cartridges."—A communication from abroad by Henri Mennig, Mécanician, residing at Molenbeck St. Jean, Belgium.

2401. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "A cryptographic machine or apparatus for carrying on secret correspondence."—A communication from abroad by Jules François Victor Mouilleron, of Paris.

2402. To Peter Augustin Godefroy, of King's Mead Cottages, New North Road, Islington, in the county of Middlesex, for the invention of "Improvements in the construction of submarine cables."

2403. To François Nivelle, of Paris, in the empire of France, Shoemaker, for the invention of "Improvements in sewing machines."

2404. To James Hodgson, of Liverpool, for the invention of "Improvements in building ships and vessels."

2405. And to Charles Hanson, of Tottenham Court Road, in the county of Middlesex, Gun Manufacturer, for the invention of "Improvements in fire arms and ordnance."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of October, 1859.

2406. To James Musgrave, of the firm of John Musgrave and Sons, of the Globe Iron Works, Bolton-le-Moors, in the county of Lancaster, Engineer, for the invention of "Certain improvements in steam boilers."

2407. To Jonathan Harrington Green, of Christiansberg, in the county of Wapello, and state of Iowa, in the United States of America, for the invention of "A composition for coating metals and other substances for various purposes."

2408. To John Talbot Pitman, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for the invention of "An improved mode of converting cast iron into soft malleable iron without change of form."—A communication from abroad by J. A. K. Eaton, of the city, county, and state of New York, in the United States of America.

2410. To George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in apparatus for steering vessels."—A communication from abroad by E. N. Dickerson, of Park Row, New York, United States of America.

2411. To Thomas Symes Prideaux, of Willow House, Hampstead, and 32, Charing Cross, Civil Engineer, for the invention of "Improvements in the construction of ships and rafts."

2412. And to William Maltby, of De Crespigny Park, Camberwell, in the county of Surrey, Gentleman, for the invention of "Improvements in refining oil."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of October, 1859.

2414. To Peter Jones, of the city of Manchester, in the county of Lancaster, Machinist, for the invention of "Improvements in machinery or apparatus for suspending, carrying, and laying down paper, woven fabrics, paper-hangings, and all kinds of flexible materials during and after the process of drying, and also for giving a continuous positive motion to the suspending rods or spindles."

2415. To George Bickerton Mill, of the city of Toronto, Canada West, Plumber, for the invention of "Improvements in pressure regulating apparatus for gas burners."

2416. To William Fox, of Amiens, in the department of the Somme, in the empire of France, Umbrella Frame Manufacturer, and James Willis, of Little Britain, in the city of London, Umbrella Manufacturer, for the invention of "Improvements in the manufacture of umbrellas and parasols, part of which improvements is applicable to other purposes."

2417. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "A method of preparing inoxidizable oils and fats to be employed as lubricating substances."—A communication from abroad by Jules Roth, of Mulhouse, France."

2418. To William Brookes, of 73, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in machinery or apparatus for preparing wool and other fibrous materials."—A communication from abroad by Messrs. Dombret and Dugnolle, of Valenciennes, and Potez Ainé, of St. Mandé, near Paris, in the empire of France.

2419. To Septimus Beardmore, of No. 27, Albion Street, Hyde Park, London, Civil Engineer, for the invention of "Improvements in electric telegraphs."

2420. To William Thorold, of Norwich, Engineer, for the invention of "Improvements in apparatus applied to locomotive engines for condensing steam."

2421. To Julius Dahlke, of Providence Row, Finsbury, in the county of Middlesex, Analytical Chemist, for the invention of "Improvements in the preparation of charcoal, and its application to the purification of water and the preservation of organic matters, and in apparatus connected therewith."

2422. To Francis Wrightson, of Birmingham, in the county of Warwick, Professor of Chemistry, in Sydenham College, Birmingham, for the invention of "Improvements in purifying coal gas, and in utilizing compounds obtained in purifying coal gas."

2423. And to Francis North Clerk, of the firm of Peyton and Clerk, of Birmingham, in the county of Warwick, Edge Tool Manufacturers, and Charles Thomas, of Birmingham aforesaid, Foreman of Works, for the invention of "Improvements in cleavers or choppers."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of October, 1859.

2424. To Andrew Linmere Dowie, of Glasgow, in the county of Lanark, North Britain, Merchant, for the invention of "Improvements in gas burners, and in pressure regulating apparatus for the same."

2425. To GEORGE HOLDEN, of Preston, in the county of Lancaster, Manager, for the invention of "Improvements in machinery for spinning cotton and other fibrous substances."

2427. To AUGUSTE CONSTANTIN BERTRAND, of Paris, in the empire of France, for the invention of "Improvements in the manufacture of herbal cigarrettes."

2428. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in daylight and other reflectors, and in the method of supporting lamp reflectors."—A communication from abroad by Jean Boy, of Paris.

2429. To MATHEW FITZPATRICK, of 29, Boulevart St. Martin, Paris, Civil Engineer, for the invention of "Apparatus to be applied to the prevention of accidents on railways, called 'parachoc.'"

2430. To ROBERT SEAGER, of Peter Street, Ipswich, for the invention of "Improvements in compounds of india rubber and gutta percha."

2431. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the construction of ships or vessels."—A communication from abroad by Rollin Germain, of the city of Buffalo, United States of America.

2432. And to WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in paddle wheels."—A communication from abroad by Rollin German, of the city of Buffalo, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 24th day of October, 1859.

2433. To HENRY SHEPHERD ROSSER, of No. 17, Upper Philimore Gardens, Kensington, in the county of Middlesex, for the invention of "Improvements in electric telegraph cables, and in the mode of obtaining signals."

2437. To WILLIAM ANTHONY MATTHEWS, of Sheffield, in the county of York, Steel Manufacturer, for the invention of "Improvements in springs."

2439. To EDWIN ELLIS, of St. Ann's Wells Road, Nottingham, for the invention of "Improvements in the manufacture of lace, and in apparatus employed therein."

2441. And to EDWARD SQUIRE TEBBUTT, of the firm of W. J. Windram and Co., of Leicester, Elastic Webb Manufacturers, for the invention of "An improved manufacture of elastic fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of October, 1859.

2443. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in the preparation and application of baths or bathing media, and in apparatus employed therein."—A communication from abroad by Emile Muller, of Paris, in the empire of France, Civil Engineer.

2445. To JOHN ZUILL KAY, of Dundee, in the county of Forfar, North Britain, Gas Engineer, for the invention of "Improvements in gas meters, and in apparatus for maintaining or preserving the levels of liquids."

2447. To JAMES HENRY PATERSON, of Glasgow, in the county of Lanark, North Britain, Manufacturer, for the invention of "Improvements in shirting cloths and in shirts."

2451. To CHARLES EDMUND WILSON, Manufacturer, and HENRY GEORGE HACKER, Warehouseman, both of Monkwell Street, in the city of London, for the invention of "Improvements in machinery for the manufacture of chenille."

2453. And to TIMOTHY WHITBY, of Millbank Street, Westminster, and WILLIAM DEMPSEY, of Great George Street, Westminster, in the county of Middlesex, Civil Engineers, for the invention of "Improvements in ordnance and fire arms."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of October, 1859.

2455. To CHARLES STEVENS, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for the invention of "A machine for scouring and polishing floors and decks of ships."—A communication from abroad by Jean Jacques Monnié, of Paris, in the empire of France.

2457. To EUGÈNE HIPPOLYTE RASCOL, of No. 4, Brydges Street, Covent Garden, in the county of Middlesex, Gentleman, for the invention of "A new implement for cleansing of the plates, dishes, and other table or kitchen utensils."—A communication from Johanna Perry, a person residing abroad, 51, Rue Dareau, Gentilly, near Paris.

2459. To ROWLAND MASON ORDISH, Civil Engineer, of 18, Great George Street, Westminster, in the county of Middlesex, for the invention of "Improvements in railway fastenings."

2461. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in the preparation of red coloring matters or dyes."—A communication from abroad by Messrs. Renard, frères, of Lyons.

2463. And to HENRY COWAN, of Boileau Lodge, Barnes, in the county of Surrey, Esquire, for the invention of "An improvement in waistcoats, and certain other articles of wearing apparel."

On their several petitions, recorded in the office of the Commissioners on the 27th day of October, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

4th November, 1859.

1039. HENRY COLUMBUS HURRY, of Wolverhampton, in the county of Stafford, Civil Engineer, for an invention of "Improved means of and apparatus for obtaining motive power."—Dated 25th April, 1859.

1122. HENRY TURNER, of Park Street, Mile End, Engineer, for an invention of "Improvements in steam-engines and apparatus connected therewith."—Dated 5th May, 1859.

1131. Henry Reynolds, of Denmark Hill, in the county of Surrey, Gentleman, for an invention of "Improvements in refining sugar and other saccharine substances."—Dated 5th May, 1859.

1132. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in cannon and other fire arms and in projectiles, wads, and cartridges to be used therewith."—A communication from abroad by John Webster Cochran, of New York.—Dated 5th May, 1859.

1137. William Kellingley, of No. 13, Mason Street, New Cross, Surrey, Carriage Builder, for an invention of "Improvements in the mode of lubricating the journals of the axles of locomotive engines, of carriages, and machinery."—Dated 6th May, 1859.

1138. Frederick Angerstein, of Kennington, in the county of Surrey, Esquire, Robert Clegg, of Islington, in the county of Middlesex, Gentleman, and George Thorrington, of Egham, in the said county of Surrey, Lighterman, for an invention of "Improvements in apparatus for obtaining motive power."—Dated 6th May, 1859.

1142. Thomas Jones, of Liverpool, in the county of Lancaster, Slater and Plasterer, for an invention of "An improved apparatus and arrangement of flues for heating and ventilating buildings, ships and other structures, and for causing draughts in chimnies."—Dated 6th May, 1859.

1154. William Edward Gedge, of the firm of John Gedge and Son, No. 4, Wellington Street South, Strand, in the county of Middlesex, Patent Agents, for an invention of "Improvements in the manufacture of steel."—A communication from abroad by Claude Joseph Perinel, of Fourvoiry, departement de l'Isère, in the empire of France, Ironmaster.—Dated 7th May, 1859.

1156. Walter Jeffery, of Eastgate Street, Gloucester, for an invention of "Rendering more convenient out-door manipulations in photography by means of an improved portable photographic tent and tent camera."—Dated 7th May, 1859.

1163. Alexander Morton, of Morton Place, Kilmarnock, county of Ayr, for an invention of "Improvements in means or apparatus, employed in the weaving of figured fabrics."—Dated 9th May, 1859.

1164. Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention of "Improvements in obtaining motive power."—A communication from abroad by Aimé Francois Lapène, of Paris, in the empire of France.—Dated 9th May, 1859.

1165. Thomas Green, junior, of Old Broad Street, in the city of London, for an invention of "Improvements in apparatus applicable to steam boilers to obtain greater security against explosion."—Dated 9th May, 1859.

1169. William Wilkinson and Charles Whitley, of the city of Manchester, in the county of Lancaster, for an invention of "Improvements in buttons and fastenings for garments, harness, and other similar purposes, and in the method of securing the same."—Dated 10th May, 1859.

1170. Moss Defries, of Houndsditch, in the city of London, Manufacturer, for an invention of "Improved apparatus for regulating the pressure of gas."—Dated 10th May, 1859.

1171. John Norman, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in furnaces."—Dated 10th May, 1859.

1172. Robert Thomson, of Glasgow, in the county of Lanark, North Britain, Manager, for an invention of "Improvements in shuttles."—Dated 10th May, 1859.

1173. George Bell, of Wandsworth, in the county of Surrey, Manufacturer, for an invention of "Improvements in matches or fusees."—Dated 10th May, 1859.

1182. Henry Clarke, of Wakefield, in the county of York, Corn Factor, for an invention of "Improvements in balancing millstones to the running as well as the standing state."—A communication from abroad by Thomas Narburgh, of St. Louis, Missouri, North America.—Dated 11th May, 1859.

1187. James Leadbetter, of Leeds, in the county of York, Brazier, and James Rhodes, of Armley, near Leeds, in the same county, Water Rate Collector, for an invention of "Improvements in pumps."—Dated 11th May, 1859.

1190. John Saxby, Engineer, of Brighton, Sussex, for an invention of "Improvements in the mode of securing the rails on railways."—Dated 12th May, 1859.

1191. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E. C., Editor of the Mechanics' Magazine and Patent Agent, for an invention of "Improvements in machinery for solidifying, pressing, and moulding."—A communication from abroad by Felix Dehaynin, residing at Paris.—Dated 12th May, 1859.

1205. Joshua Taylor Beale, of Greenwich, in the county of Kent, Engineer, and Thomas Nesham Kirkham, of Upper Halliford, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in the preparation of colors for dyeing and printing."—Dated 13th May, 1859.

1213. John Chatterton, of 7, Devonshire Street, Islington, in the county of Middlesex, for an invention of "Improvements in covering wires and other metal conductors for telegraphic purposes."—Dated 14th May, 1859.

1229. Robert Romaine, late of Canada West, but now of Chapel Street, Bedford Row, in the county of Middlesex, Gentleman, for an invention of "Improvements in the means of applying steam power to the cultivation of the soil."—Dated 18th May, 1859.

1247. John Henry Johnson, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in the roasting or calcining of ores, applicable also to the oxidising of other substances."—A communication from abroad by Professor Jean François Persoz, of Paris, in the empire of France.—Dated 20th May, 1859.

1259. Eugène Pasquier, Mechanic, residing at Reims, Hinemar prolongée Street, Marne, in the empire of France, for an invention of "Apparatus for drying wool and all filaceous matters."—Dated 23rd May, 1859.

1288. David Simpson Price, of 7, Green Street, Grosvenor Square, in the county of Middlesex, Analytical Chemist, for an invention of "Improvements in the production of colors for dyeing and printing."—Dated 25th May, 1859.

1331. Oliver Maggs, of Bourton, in the county of Dorset, for an invention of "Improvements in harrows."—Dated 30th May, 1859.

1358. William Henry Parkes, of Birmingham, in the county of Warwick, Manufacturer, and William Bagnall, of Birmingham aforesaid, Plater, for an invention of "A new or improved ventilator for hats and other head coverings, and also for carriages."—Dated 2nd June, 1859.

1361. John Wilson, of St. Helens, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in the manufacture of carbonate of soda."—Dated 3rd June, 1859.

1390. Robert Barclay, of Bucklersbury, in the city of London, for an invention of "Improvements in the manufacture of paper from which writing or other inks cannot be expunged or extracted without detection."—Dated 7th June, 1859.

1407. Michael John Haines, of Dursley, in the county of Gloucester, Strap Maker, for an invention of "Improvements in the manufacture of driving straps or bands."—Dated 10th June, 1859.

1501. Charles Clarini, of New York, U. S. A., for an invention of "Making wrought metal nails by machinery."—Dated 22nd June, 1859.

1748. Alfred Sidebottom, of Crown Street, Camberwell, in the county of Surrey, Consulting Chemist, for an invention of "Improvements in the mode or process of separating animal fibre from mixed fabrics of animal fibre and cotton or other vegetable fibre."—Dated 28th July, 1859.

1759. James Wright, of 42, Bridge Street, Blackfriars, city of London, Civil Engineer, for an invention of "An improved method of raising or drawing up the skirts of gowns or dresses."—A communication from abroad by M. Bresson, of Paris, in the French empire, Civil Engineer.——Dated 29th July, 1859.

1972. George Collier, of 23, Elizabeth Street, Eaton Square, in the county of Middlesex, for an invention of "Improvements in chairs and couches."—Dated 30th August, 1859.

1990. Edwin Ellis, of St. Ann's Well Road, Nottingham, for an invention of "Improvements in finishing silk fabrics made on bobbin net and warp frames."—Dated 31st August, 1859.

2081. Henry George Collins, of McLean's Buildings, New Street Square, in the city of London, for an invention of "Improvements in producing printing surfaces on stone, metal, and other materials capable of being employed in printing in the manner of lithographic stones, also in the production of printing plates and surface printing blocks, and in transfer inks."—Dated 12th September, 1859.

2131. Peter Fairbairn, of Leeds, in the county of York, Knight, for an invention of "Improved machinery for finishing the teeth of spur and other gearing."—Dated 19th September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 2nd November, 1859, inclusive.*)

31st October.

2576. Samuel Tearne, Japanner, of Birmingham, in the county of Warwick, and George William Richmond, Artist, also of Birmingham, in the same county, for an invention of "Certain improvements in producing ornamental designs on the surfaces of fancy and other goods made of papier mâché, wood, glass, china, earthenware, tin, iron, or other such like materials, the surfaces of which when made up are usually finished by staining, varnishing, painting, or japanning."—Dated 3rd November, 1856.

1st November.

2577. James Nasmyth and Robert Wilson, both of Patricroft, near the city of Manchester, Engineers, for an invention of "Improvements in hydraulic pumps and presses for packing cotton and other articles of the like nature."—Dated 3rd November, 1856.

2605. William Seed, of Preston, in the county of Lancaster, Spindle and Flyer Maker, and William Ryder, of Bolton-le-Moors, in the county of Lancaster, Spindle and Flyer Maker, for an invention of "Improvements in certain parts of machinery for slubbing and roving cotton and other fibrous materials."—Dated 5th November, 1856.

2nd November.

2585. Henry Bessemer, of Queen Street Place, New Cannon Street, in the city of London, for an invention of "Improvements in the manufacture of rails or railway bars and axles."—Dated 4th November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 2nd November, 1859, inclusive.*)

31st October.

683. Jean Jacques Ziegler, of Guebwiller, in the department du Haut Rhin, in the Republic of France, Engineer, for an invention of "Certain improvements in machinery for preparing to be spun, cotton, wool, silk, silk-waste, flax, tow, and other fibrous substances."—Dated 9th November, 1852.

1st November.

590. William Petrie, of Woolwich, in the county of Kent, Civil Engineer, for an invention of "Improvements in the manufacture of sulphuric acid."—Dated 1st November, 1852.

2nd November.

624. Edward Lord, of Todmorden, in the county of York, Machine Maker, for an invention of "Improvements in certain machinery to be used in preparing, spinning, and weaving cotton and other fibrous substances."—Dated 3rd November, 1852.

FOREIGN PATENTS.



AUSTRIA.*

List of Patents which were Delivered, Prolonged, or became Void during the Month of August, 1859.†

(*Communicated by the Austrian Government.*)

1. Patents Delivered.

1. Sigmund Roth, of Pesth, for "Improvements in gilding." — 1 year. — (Secret.) — Dated 7th August, 1859.

2. Johann Zizula, of Vienna, for "Improved cushions of billiard tables with double helical springs."—1 year.—(Secret.)—Dated 7th August, 1859.

3. Eduard Schmidt, of Vienna, for "A machine for spooling thread."—3 years.—(Secret.)—Dated 9th August, 1859.

4. Ludwig von Kosztka, of Vessprim, Hungary, for "An apparatus for catching flies."—1 year.—(Public.)—Dated 10th August, 1859.

5. Ignaz Pfliger, of Vienna, for "A peculiar apparatus for loading railway carriages with coal."—1 year.—(Public.)—Dated 10th August, 1859.

6. Moriz Goldmann, of Vienna, for "Manufacturing meerschaum pipes from the waste of meerschaum."—1 year.—(Secret.)—Dated 10th August, 1859.

7. Johann Julius Wilhelm Spindler, of Berlin, represented by Georg Märkl, Vienna, for "Manufacture and use of a peculiar red dye substance, called 'fuchsine.'"—1 year.—(Secret.)—Dated 11th August, 1859.

8. Hermann Kohn, of Pesth, for "Impervious linings of hats."—1 year.—(Secret.)—Dated 11th August, 1859.

9. C. J. Loicq, of Charleroi, Belgium, represented by Alfred Lenz, Vienna, for "Improvements in railway crossings, whereby single parts may be easily exchanged."—1 year.—(Public.)—Dated 11th August, 1859.—(Belgian Patent, 22nd January, 1858.)

10. Carl von Hauer and Ferdinand Lehner, of Vienna, for "Obtaining watery solutions of chemically pure carbonate of protoxide of iron, unmixed or containing other salts."—1 year.—(Secret.)—Dated 11th August, 1859.

11. Carl Pfraumer, of Reichraming, Upper Austria for "A peculiar flux for the manufacture of cast steel, whereby a greater quantity of pig iron may be employed."—2 years.—(Secret.)—Dated 11th August, 1859.

12. E. C. Stiles, of Vienna, for "A peculiar apparatus for heating apartments."—1 year.—(Secret.)—Dated 12th August, 1859.

13. Johann Kessler, of Pardubitz, for "Improvements in railway-breaks."—1 year.—(Public.)—Dated 12th August, 1859.

14. Eduard Sedlaczek, of Vienna, for "Obtaining a saving in galvanic batteries of telegraph stations."—1 year.—(Secret.)—Dated 12th August, 1859.

15. Hermann Heinrich Frickenhaus, of Mannheim, represented by Dr. Joseph Neumann, Vienna, for "Applying manganese or super-oxide of manganese to the manufacture of sugar, whereby a better separation of the raw beetroot juice is obtained."—3 years.—(Public.)—Dated 12th August, 1859.

16. Franz Julius Schnecberger, of Vienna, for "A so-called 'gravitation machine,' being a substitute for steam engines."—5 years.—(Secret.)—Dated 14th August, 1859.

17. Anton Watzak, of Stein, for "A peculiar powder for cleaning metal."—1 year.—(Secret.)—Dated 14th August, 1859.

18. Markus Schwartz, of Pesth, for "A peculiar method of preventing all kinds of clocks from becoming rusty."—1 year.—(Secret.)—Dated 14th August, 1859.

19. Weston Grimshaw, of Bowden, England, represented by Friedrich Paget, Vienna, for "Improvements in machines for the manufacture of bricks, tiles, and similar articles, and in the treatment of the earth used thereat."—3 years.—(Public.)—Dated 15th August, 1859.

20. Sophie Paul, of Theresienfeld, Lower Austria, for "Improvements in the manufacture of socks of wool, linen, and cotton."—1 year.—(Public.)—Dated 15th August, 1859.

21. Johann Felix Miguel, of Paris, represented by Georg Märkl, Vienna, for "A peculiar truss."—1 year.—(Public.)—Dated 15th August, 1859.

22. Joseph Seitz, of Vienna, for "Cutting dresses by machinery."—1 year.—(Secret.)—Dated 16th August, 1859.

23. H. W. Jentsch, of Untermeidling, Theodro Hoffmann and Franz Podany, Vienna, for "Improvements in enamelling kitchen vessels of sheet iron and iron, and also ovens."—3 years.—(Secret.)—Dated 20th August, 1859.

24. Felix Alexander Testud de Beauregard, of Paris, represented by Georg Märkl, Vienna, for "A peculiar spheroidical steam generator."—1 year.—(Public.)—Dated 20th August, 1859.

25. Heinrich Seymour Lansing, of New York, represented by Friedric Paget, Vienna, for "Improvements in revolvers."—3 years.—(Public.)—Dated 25th August, 1859.

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had at the Library of the Commissioners' Office.

2. Patents Prolonged.

1. Albert Pucher, for "A new kind of bricks, called 'tetrahedron bricks.'"—2nd year.—(Public.) —Dated 12th July, 1858.

2. Georg von Haanen, for "Giving paper, wood, metal, and other substances the appearance of tortoise shell, polished stone, or wood."—8th year. —(Secret.)—Dated 23rd July, 1852.

3. Wilhelm Rampach, for "Improvements in the manufacture of cast and pressed silver articles."— 8th year.—(Secret.)—Dated 28th July, 1852.

4. Thonet Brothers, for "Giving wood any curvature and form by means of cutting and glueing the same."—8th year.—(Secret.)—Dated 28th July, 1852.

5. Felicitas Hager, for "Animal strengthening pomatum."—6th year.—(Secret.)—Dated 10th August, 1854.

6. Felicitas Hager, for "A cosmetic."—5th year. —(Secret.)—Dated 4th August, 1855.

7. Wendelin Mottl, for "A reducing machine for tailors for applying the centimetre."—3rd year. —(Public.)—Dated 18th August, 1857.

8. Michael Ronsperger, (Joachim Bachrich, assignee,) for "Improvements in spring petticoats." —2nd year.—(Public.)—Dated 1st August, 1858.

9. Bernhard Kastriner, (Moriz Dirnfeld, assignee,) for "Dresses which may be widened and straightened."—3rd year.—(Secret.)—Dated 3rd August, 1857.

10. Leopold Munding, for "An hydraulic motor." —6th year.—(Public.)—Dated 29th July, 1854.

11. Joseph Berger, for "Preventing spirituous beverages from becoming sour."—2nd year.— (Secret.)—Dated 16th August, 1858.

12. Mathias Burger, (Friedrich Paget, assignee,) for "Improvements in the patent cement oil colours."—8th year.—(Secret.)—Dated 4th August, 1852.

13. Marcus Lippmann, for "A composition of tin for dyeing wool."—2nd year.—(Secret.)—Dated 17th August, 1857.

14. Joseph Leon Pomme de Mirimonde, for "Axle boxes of railway and other carriages."— 3rd year.—(Public.)—Dated 2nd September, 1857.

15. G. Pfannkuche and C. Scheidler, for "Improvements in fireproof iron safes and chests."— 2nd year.—(Public.)—Dated 1st August, 1858.

16. Thonet Brothers, for "Manufacture of chairs, arm-chairs, sofas, and feet of tables from wood bent by means of steam or boiling liquids.—4th to 6th years.—(Secret.)—Dated 10th July, 1856.

17. Joseph Hermann, for "A new mode of printing calico and shawls."—4th year.—(Public.)— Dated 2nd August, 1856.

18. Johann Desmarest, for "Improvements in the manufacture of nails."—3rd to 4th years.— —(Secret.)—Dated 28th August, 1857.

19. Georg Gleischner, for "Improvements in scissors for cutting vines."—2nd year.—(Secret.) —Dated 14th August, 1858.

20. Bernard von Morell, for "Peculiar docks." —4th year.—(Secret.)—Dated 20th September, 1856.

21. Peter Pfeffermann, for "Tooth powder."— 2nd year.—(Public.)—Dated 7th October, 1858.

22. David Chlodroig Knab, for "Improvements in distilling coal, brown coal, turf, &c."—2nd year. —(Public.)—Dated 7th October, 1858.

23. Alfred Fauvin Jaloureau, for "A peculiar process for the manufacture of waterproof and air-tight pipes for the conveyance of gas, water, and subterraneous telegraphs."—2nd year.—(Public.)—Dated 8th November, 1858.

24. Carl Theodor Launay and Julius Chopin, for "An apparatus for preserving the lighting power of gas."—4th year.—(Secret.)—Dated 13th October, 1856.

25. Jacob Franz Heinrich Hemberger (Johann Wethered, assignee,) for "Improvements in increasing the expansion of steam at a fixed ratio, by superheating."—6th to 10th years.—(Public.)— Dated 7th March, 1854.

26. Joseph Cavalli, for "Presses for obtaining initials, stars, laces, and similar articles of cloth, &c."—7th year.—(Public.)—Dated 3rd August, 1853.

27. Wilhelm Bernhuber, for "Applying the principle of the expeditious manufacture of vinegar to the manufacture of ammonia and ammonia salts."—4th year.—(Secret.)—Dated 7th August, 1856.

28. Julius Offermann, for "Improvements in his Patent means of preventing and removing the incrustation of boilers."—2nd year.—(Secret.)— Dated 8th August, 1858.

29. August Sonntag, for "Improvements in fluid lamps."—3rd year.—(Secret.)—Dated 12th August, 1857.

30. Alfred Ludwig Stanislaus Chenot, for "Apparatus for compressing spungy metal, pulverized ores, and the chemical agents acting on the same."—3rd year.—(Public.)—Dated 17th August, 1857.

31. Anton Fuchs, (Josepha Berger, assignee,) for "Improvements in the construction of kitchen vessels."—2nd year.—(Secret.)—Dated 16th August, 1858.

32. Leopold Fried, for "Improvements in removing the fusel from spirits of wine."—2nd year. —(Secret.)—Dated 20th August, 1858.

33. Wilhelm Goldner, for "Improvements in the manufacture of men's dresses."—2nd year.— (Secret.)—Dated 24th September, 1858.

34. August Ferdinand Sicker, for "A peculiar construction of power looms."—2nd year.—(Secret.)—Dated 22nd November, 1858.

35. Joseph Pankl and Franz Herold, for "A machine for printing cloth with a peculiar carriage and self-revolving frame."—2nd year.—(Secret.)— Dated 14th August, 1858.

36. Joseph Schröfle, for "Improvements in the manufacture of waterproof ventilating woollen fabrics."—2nd year.—(Secret.)—Dated 10th August, 1858.

3. Patents which have become Void.*

1. Leopold Hahn, for "Improvements in the manufacture of the vamps of half-boots."—Dated 4th November, 1851; disclaimed 25th May, 1859.

2. Isaak Wittmann, for "A lye for bleaching woollen fabrics previous to printing, by a cold process, and for washing linen."—Dated 9th March, 1855; expired 9th March, 1859.

3. Johann Lages, for "Improvements in the manufacture of portable iron and clay kitchen ranges."—Dated 12th June, 1855; expired 12th June, 1859.

4. Wilhelm Kraft, for "A calculation slide for converting Austrian moneys."—Dated 22nd November, 1858; disclaimed 8th July, 1859.

5. Dr. Franz Spitaler, for "Improvements in vinegar vats." — Dated 22nd February, 1849; expired 22nd February, 1859.

6. Joseph Adolph Grünwald and Ludwig Seyss, for "Improvements in looms." — Dated 4th July, 1852; expired 4th July, 1859.

7. Joseph Klemm and Simon Marth, for "Apparatus for the conversion of moneys."—Dated 10th December, 1858; disclaimed 30th May, 1859.

8. Friedrich Max Bode, for "A puzzle-lock, which cannot be picked."—Dated 8th July, 1858; disclaimer 22nd July, 1859.

9. Georg Märkl, for "Improvements in the manufacture of terrestrial and celestial globes."—Dated 3rd December, 1856; disclaimed 18th July, 1859.

10. Edward Steiner, for "A set of jewels which may be changed."—Dated 18th Decembed, 1858; disclaimer 18th December, 1859.

11. Eduard Steiner, for "Moveable brilliant jewels of gold, silver, bronze, or steel."—Dated 20th December, 1858; disclaimed 23rd July, 1859.

12. Andreas Link, for "Nut pomatum."—Dated 22nd May, 1851; expired 22nd May, 1859.

13. Ignaz Stelzig, for "An apparatus for replacing horse-shoes when lost."—Dated 29th May, 1857; expired 29th May, 1859.

14. Luigi Cavezzali, for "Obtaining silk by chemical means, without employing silk worms." — Dated 1st February, 1854; expired 1st February, 1859.

15. Maruti Brothers, for "A process for measuring the fineness of silk threads by means of a scale."—Dated 18th February, 1854; expired 18th February, 1859.

16. Joseph Lovati, for "A new mechanism and process for preparing silk-waste, so as to be converted into skeins on common cards."—Dated 20th February, 1855; expired 20th February, 1859.

17. Joseph Freund, for "An apparatus for widening and straightening stays and dresses by mere pressure and pulling." — Dated 20th February, 1855; expired 20th February, 1859.

18. Ladislaus von Ohlah, for "Iron roofings covered with iron, zinc, or copper."—Dated 14th February, 1856; expired 14th February, 1859.

19. Franz Kaufmann, for "Improvements in the manufacture of pine-gas."—Dated 17th February, 1856; expired 17th February, 1859.

20. Joseph Pinet, for "A peculiar horse gin."—Dated 17th February, 1856; expired 25th February, 1859.

21. Thomas Patzal, for "Improvements in dioptrical stereoscopes."—Dated 25th February, 1856; expired 25th February, 1859.

22. Carl Abegg, for "Improvements in spooling yarns by means of flyers."—Dated 26th February, 1856; expired 26th February, 1859.

23. Dr. Franz Drinkwalder and Johann Kensch, for "Improvements in hoes for cultivating vineyards."—Dated 27th February, 1856; expired 27th February, 1859.

24. Philipp Granichstädten, for "Impermeable hats."—Dated 27th February, 1854; expired 27th February, 1859.

25. Anton Patzelt, for "So-called 'helical stoves.'"—Dated 6th February, 1857; expired 6th February, 1859.

26. Eugen de Varroc, for "A process for foliating and coating glass, and for obtaining reflectors."—Dated 6th February, 1857; expired 6th February 1859.

27. Christoph Ressig, for "Improvements in the manufacture of hydraulic cement which may be polished."—Dated 8th February, 1857; expired 8th February, 1859.

28. Carl Janig, for "Improvements in machines for making hooks."—Dated 10th February, 1857; expired 10th February, 1859.

29. Eduard Albert, for "Obtaining felt from vegetable substances partly or entirely."—Dated 15th February, 1857; expired 15th February, 1859.

30. Clodwig Porta, for "A peculiar machine for driving in piles."—Dated 20th February, 1857; expired 20th February, 1859.

31. Carl Hanseli, for "Improvements in his patent machines for cutting the wood for matches." —Dated 18th February, 1857; expired 18th February, 1859.

32. Johann Schuberth, for "A new kind of bullen nails, coated or uncoated, for upholsterers, saddlers, &c."—Dated 3rd February, 1858; expired 3rd February, 1859.

33. Joseph Pizzocheri, for "An apparatus applicable to all clocks for ascertaining the right time, even after having made a mistake in counting the number of strokes or beats."—Dated 3rd February, 1858; expired 3rd February, 1859.

34. Hermann Berger, for "Artificial press yeast made independently from breweries and distilleries." —Dated 8th February, 1858; expired 8th February, 1859.

35. Franz Hittich, for "Making furniture from curved hoop iron."—Dated 18th February, 1858; expired 18th February, 1859.

* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

36. Gustav Alexander Fischel, for "Preparing rape oil for lubricating purposes, so as to become a substitute for salad oil."—Dated 22nd February, 1858; expired 22nd February, 1859.

37. Gustav Hennoch, for "Improvements in miners' safety lamps."—Dated 24th February, 1858; expired 24th February, 1859.

38. Julius Viault, for "Self-acting signal discs for preventing railway collisions."—Dated 24th February, 1858; expired 24th February, 1859.

39. Ferdinand Danbrawa, for "A so-called self-acting apparatus for obtaining purified or dry gas to any amount, and apparatus for conveying gases into vessels without allowing them to flow back."—Dated 24th February, 1858; expired 24th February, 1859.

40. Albert Friedrich Riedl, for "Printing a mordant on glass for transparent colours and coatings."—Dated 24th February, 1858; expired 24th February, 1859.

41. Hyacinth Potez, for "A powder for preventing and removing the incrustation of locomotive and other steam pipes."—Dated 27th February, 1858; expired 27th February, 1859.

42. Wilhelm Skallitzky, for "Manufacture of prismatic letters, cyphers, symbols, and medals."—Dated 24th March, 1846; expired 24th March, 1859.

43. Pick Brothers, for "Improvements in the manufacture of oil."—Dated 24th March, 1846; expired 24th March, 1859.

44. Johann Keusch, for "Scissors for cutting vines."—Dated 18th March, 1850; expired 18th March, 1859.

45. Franz Xaver Kukla, for "Preventing bank notes, bills, &c. from being imitated by means of chemical and physical processes."—Dated 30th March, 1851; expired 30th March, 1859.

46. William Crosskill, for "Improvements in the construction of clod crushers."—Dated 30th March, 1851; expired 30th March, 1859.

47. Schlegel and Co., for "Winding off silk cocoons by means of circulating hot water, and beaters heated by steam."—Dated 16th March, 1852; expired 16th March, 1859.

48. Wenzel Schwarz, for "Improvements in his pomatum as patented 3rd September, 1841."—Dated 29th March, 1852; expired 29th March, 1859.

49. Frederic William Mowbray, for "Improvements in looms."—Dated 27th March, 1856; expired 27th March, 1859.

50. Eduard Müller and Carl Demuth, for "Improvements in machines used in the manufacture of gas."—Dated 12th May, 1856; expired 12th May, 1859.

51. Adolph Pulzer, for "Artificial square stones made of bricks and a peculiar mode of applying the same to constructions."—Dated 14th July, 1858; expired 14th July, 1859.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by Bennet Woodcroft, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated 8th April*, 1626, *and 23rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated 22nd February*, 1620, *and 2nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated 24th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset, Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent. No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of severa new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D (*Letters Patent, No.* 513, *dated 7th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent No.* 602, *dated* 16*th March* 1744.) Price

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Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
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Hull (*Mechanics' Institute, George Street*).
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Leicester (*Corporation Library, Town Hall*).
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Liverpool (*Free Public Library, Duke Street*).
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——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
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Newport, Monmouth (*Commercial Room, Town Hall*)
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library, Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
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Rochdale (*Commissioners Room, Smith Street*).
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Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices, Institutions, &c.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
Dublin Castle, Dublin.
Rolls Office, Chancery (Four Courts), Dublin.
Office of Chancery, Edinburgh.
East India House, Military Stores, Leadenhall Street.
Incorporated Law Society Chancery Lane, London.

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Belgium—Ministère de l'Intérieur, Brussels.
France—Bibliothèque Impériale, Conservatoire des Arts et Métiers, Hôtel de Ville. } Paris.
Gotha—Ducal Friedenstein Collection.
Hanover—Ministerium des Innern, Hanover.
Netherlands—Ministère de l'Intérieur, The Hague.
Prussia—Handels Ministerium, Berlin.
Russia—Bibliothèque Impériale, St. Petersburg.
Sardinia—Ufficio delle Privative, Turin
Saxony—Polytechnische Schule, Dresden.
Sweden—Stockholm.
United States—The Patent Office, Washington.
The Astor Library, New York.
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The Franklin Institute, Philadelphia.
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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 610. TUESDAY, NOVEMBER 8, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1528. JOHN ROBERTS, of Upnor, in the county of Kent, Terra Cotta Manufacturer, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in filters."

As set forth in his petition, recorded in the said office on the 25th day of June, 1859.

1533. And GEORGE WRIGLEY, of the firm of Messieurs Cryer, Lees, and Company, of Dukinfield, in the county of Chester, Machine Makers, and THOMAS HIRAM WRIGLEY, of Mossley, in the county of York, Overlooker, have given the like notice in respect of the invention of "Improvements in self-acting mules for spinning and doubling."

As set forth in their petition, recorded in the said office on the 27th day of June, 1859.

1543. And GEORGE HALL, jr., of Montrose, in the county of Forfar, North Britain, Farmer, has given the like notice in respect of the invention of "Improvements in reaping machines."

1545. And WILLIAM WRAY and JOHN WRAY, both of Leeming, near Beedale, Yorkshire, have given the like notice in respect of the invention of "Certain improvements in reaping machines."

1546. And THOMAS WIGHT, of Middlesborough-on-Tees, in the county of York, Foundry Manager, has given the like notice in respect of the invention of "Improvements in the apparatus used in the manufacture of cast metal pipes and castings, termed core bars, or spindles and chaplets."

As set forth in their respective petitions, all recorded in the said office on the 29th day of June, 1859.

1553. And EDWARD FRANCIS, of Wrexham, in the county of Denbigh, Grocer, has given the like notice in respect of the invention of "Apparatus for facilitating the 'making up' or packing of sugar and other articles of grocery and other substances."

1558. And LOUIS BOIGEOL, of Giromagny, near Belfors, town in the French empire, Manufacturer, has given the like notice in respect of the invention of "Improved machinery for winding and twisting fibrous materials."

As set forth in their respective petitions, both recorded in the said office on the 30th day of June, 1859.

1579. And ROBERT WHITESIDE MORVILLE, of Pendleton, Salford, in the county of Lancaster, late of the United States, Engraver, has given the like notice in respect of the invention of "Improvements in mechanism or arrangements for suspending and securing window sashes."—A communication from abroad, by Porter A. Gladwin, of Pawtucket, Rhode Island, United States.

As set forth in his petition, recorded in the said office on the 2nd day of July, 1859.

1589. And HENRY CHARLES HOWELLS, of 120, Duane Street, New York, in the state of New York, and JOSEPH CHARLES HOWELLS, of Madison, in the state of Wisconsin, both in the United States of America, have given the like notice in respect of the invention of "Improvements in the mode of registering the number of persons entering or leaving public conveyances or places of public resort, and of determining the value of the entry or fare."

As set forth in their petition, recorded in the said office on the 4th day of July, 1859.

1593. And JAMES MCINTOSH, of Glasgow, in the county of Lanark, North Britain, Tanner and Currier, has given the like notice in respect of the invention of "Improvements in the manufacture of leather driving belts."

1596. And ARSÈNE BEAULIEU, of 25, Rue du Chemin de Fer, Porte de Cologne, Brussels, in the

kingdom of Belgium, Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in crinolines, and in machinery for manufacturing springs for such and other purposes."—A communication from abroad by Henri Theodore Van Eycken, a person resident at Rue Terre-Neuve, No. 25, Brussels.

As set forth in their respective petitions, both recorded in the said office on the 5th day of July, 1859.

1607. And Louis Schwartzkopff, of Berlin, and Ferdinand Carl Philippson, of Dusseldorf, have given the like notice in respect of the invention of "Improvements in steam hammers and in machines for cutting files, and for planing and grooving iron, stone, and other substances."

As set forth in their petition, recorded in the said office on the 6th day of July, 1859.

1612. And François Alexandre Le Mat, of New Orleans, in the state of Louisiana, in the United States of America, Colonel Aide-de-Camp, has given the like notice in respect of the invention of "Improvements applicable to ordnance."

1614. And Richard Christopher Rapier, of Newcastle-upon-Tyne, in the county of Northumberland, Engineer, has given the like notice in respect of the invention of "Improvements in working rolls for rolling plates of unequal thicknesses."

1618. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in knitting frames."—A communication from abroad by Jules Nicholas Poivret, of Troyes, France, Mechanician.

As set forth in their respective petitions, all recorded in the said office on the 7th day of July, 1859.

1620. And William Henry Dawes, of Bromford Iron Works, West Bromwich, in the county of Stafford, Iron Master, has given the like notice in respect of the invention of "An improvement or improvements in the manufacture of iron."

1622. And François Alexandre Le Mat, of New Orleans, in the state of Louisiana, in the United States of America, Colonel Aide-de-Camp, has given the like notice in respect of the invention of "Improvements in the construction of revolving or repeating fire-arms."

As set forth in their respective petitions, both recorded in the said office on the 8th day of July, 1859.

1636. And Michael Henry, of No. 84, Fleet Street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of overshoes and other articles worn on the feet, and in the apparatus employed therein."—A communication from abroad by Louis Alfred d'Hennin, Mathilde Catherine Georgette Ponceot, and Caliste Bloisbluche, all of Paris, in the French empire.

As set forth in his petition, recorded in the said office on the 9th day of July, 1859.

1660. And William Cotton, of Loughborough, in the county of Leicester, Manufacturer, has given the like notice in respect of the invention of "Improvements in means or apparatus for connecting together or uniting looped fabrics."

As set forth in his petition, recorded in the said office on the 13th day of July, 1859.

1664. And Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "Improvements in the manufacture of shot and shell and other projectiles."

1665. And Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "A new or improved manufacture of certain metallic compounds or alloys."

As set forth in his respective petitions, both recorded in the said office on the 14th day of July, 1859.

1674. And Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, has given the like notice in respect of the invention of "New or improved methods of manufacturing a certain metallic compound or alloy."

As set forth in his petition, recorded in the said office on the 15th day of July, 1859.

1707. And the Right Honourable James Earl of Caithness, of Hill Street, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."

As set forth in his petition, recorded in the said office on the 20th day of July, 1859.

1747. And Edward Hunt and Henry Davis Pochin, both of Salford, in the county of Lancaster, Chemists, have given the like notice in respect of the invention of "Improved resin and resinous substances."

As set forth in their petition, recorded in the said office on the 28th day of July, 1859.

2069. And Edward Jones Mallett, of the city of New York, but now Commercial Agent of the United States, at Florence, in Italy, has given the like notice in respect of the invention of "Improvements in axles."

As set forth in his petition, recorded in the said office on the 10th day of September, 1859.

2152. And Robert Davison, of London Street, in the city of London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction of holders for containing liquid or air, and other aeriform fluids, especially adapted for use in refrigerators."

As set forth in his petition, recorded in the said office on the 21st day of September, 1859.

2176. And Richard Kay, of Busby, in the county of Renfrew, North Britain, Bleacher, has given the like notice in respect of the invention of "Improvements in preparing and bleaching textile fabrics and materials, and in the machinery or apparatus employed therein."

As set forth in his petition, recorded in the said office on the 26th day of September, 1859.

2181. And William Airey, of Brighouse, in the county of York, and James Clayton, of Golcar, in the same county, have given the like notice in

respect of the invention of "Improvements in machinery or apparatus for preparing silk, wool, cotton, flax, or other fibrous substances, for spinning."
As set forth in their petition, recorded in the said office on the 27th day of September, 1859.

2251. And JOHN THOMPSON, of Witton, near Northwich, Cheshire, and JOHN THOMPSON, the younger, of Castle, Northwich, aforesaid, have given the like notice in respect of the invention of "The manufacture of salt by an improved and more economical mode."

2263. And WILLIAM EDWARD NEWTON, of the Office of Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in revolving fire-arms."—A communication from abroad by Messrs. Perrin and Delmas, of Paris, in the empire of France.
As set forth in their respective petitions, both recorded in the said office on the 5th day of October, 1859.

2314. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved mode of clarifying and defecating saccharine solutions and juices."—A communication from abroad by Horatio Nelson Tryatt, of New York, in the United States of America.
As set forth in his petition, recorded in the said office on the 11th day of October, 1859.

2318 And WILLIAM DAY, Builder, of Burton Latimer, near Wellingborough, in the county of Northampton, has given the like notice in respect of the invention of "A direct-action rotary steam engine."

2323. And THOMAS ROTHWELL, of Manchester, in the county of Lancaster, Contractor, has given the like notice in respect of the invention of "Improvements applicable to warehouses and other buildings in which 'well-holes' are constructed for the purposes of light and ventilation."
As set forth in their respective petitions, both recorded in the said office on the 12th day of October, 1859.

2343. And GEORGE PRICE, of Wolverhampton, in the county of Stafford, Fire-proof Safe Manufacturer, has given the like notice in respect of the invention of "Improvements in locks."
As set forth in his petition, recorded in the said office on the 14th day of October, 1859.

2362. And WILLIAM KEMBLE HALL, Engineer, of 36, Cannon Street, in the city of London, has given the like notice in respect of the invention of "Improvements in apparatus for manufacturing cotton wadding."—A communi ation from abroad by John Smith, of New York, in the U. S. of America.
As set forth in his petition, recorded in the said office on the 17th day of October, 1859.

2411. And THOMAS SYMES PRIDEAUX, of Willow House, Hampstead, and 32, Charing Cross, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the construction of ships and rafts."
As set forth in his petition, recorded in the said office on the 21st day of October, 1859.

2419. And SEPTIMUS BEARDMORE, of No. 27, Albion Street, Hyde Park, London, Civil Engineer, has given the like notice in respect of the invention of "Improvements in electric telegraphs."
As set forth in his petition, recorded in the said office on the 22nd day of October, 1859.

2441. And EDWARD SQUIRE TEBBUTT, of the firm of W. J. Windram and Co., of Leicester, Elastic Webb Manufacturers, has given the like notice in respect of the invention of "An improved manufacture of elastic fabrics."
As set forth in his petition, recorded in the said office on the 25th day of October, 1859.

2445. And JOHN ZUILL KAY, of Dundee, in the county of Forfar, North Britain, Gas Engineer, has given the like notice in respect of the invention of "Improvements in gas meters, and in apparatus for maintaining or preserving the levels of liquids."
As set forth in his petition, recorded in the said office on the 26th day of October, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

8th November, 1859.

1196. THOMAS SCOTT, of Rouen, in the empire of France, Engineer, for an invention of "An improved surface condenser and refrigerator."—Dated 13th May, 1859.

1200. ROBERT GOURLAY, of the firm of Alston and Gourlay, of Glasgow, in the county of Lanark, North Britain, Ironfounders, for an invention of "Improvements in making moulds for casting."——Dated 13th May, 1859.

1207. JOHN MAY MUNRO, of the city and county of Bristol, Agricultural Machine and Implement Manufacturer, for an invention of "Improvements in the manufacture and arrangements of chain harrows."—Dated 14th May, 1859.

1208. MATTHEW LEAHY, of 53, Hereford Road, Westbourne Park, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in apparatus for facilitating the draught of carriages."—Dated 14th May, 1859.

1296. JAMES HOWARD, of Bedford, Agricultural Implement Maker, for an invention of "An improved construction of horse-rake."—Dated 25th May, 1859.

1306. John Draper, of 5, Little Tower Street, in the city of London, for an invention of "Improvements in applying indices to account and other books."—Dated 26th May, 1859.

1374. Richard Chrimes, of Rotherham, in the county of York, Brass and Ironfounder, for an invention of "Improvements in apparatus for supplying water to and discharging the contents from urinals, wash hand basins, and other similar articles."—Dated 4th June, 1859.

1569. Nesserwanjee Ardaseer, British Subject of Bombay, East Indies, for an invention of "An improved method of making steam boilers."—Dated 1st July, 1859.

1640. William MacKean, of Paisley, in the county of Renfrew, Scotland, Starch Manufacturer, for an invention of "Improvements in the manufacture or treatment of farinaceous matters for the obtainment of starch and food."—Dated 9th July, 1859.

1645. Henry Davies, of No. 13, Leicester Buildings, in King Street, Liverpool, in the county of Lancaster, for an invention of "Improvements in the manufacture of soap."—Dated 11th July, 1859.

1915. William Aristides Vérel, of Macduff, in the county of Banff, Merchant, for an invention of "Improvements in the preparation of bones for manure."—Dated 22nd August, 1859.

2080. Josiah Mason, of Birmingham, for an invention of "An improvement in boxes or cases and cards to contain or hold pens."—Dated 12th September, 1859.

2089. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improved apparatus for drying paper and other fabrics."—A communication from abroad by Edward L. Perkins, of Roxbury, in the county of Norfolk, and state of Massachusetts, United States of America.—Dated 13th September, 1859.

2109. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in machinery for forming hat bodies."—A communication from abroad by H. A. Burr, of New York.—Dated 16th September, 1859.

2111. Henry Jackson, of Oak Works, Oak Lane, Limehouse, for an invention of "Improvements in fire bars."—Dated 16th September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 5th November*, 1859, *inclusive.*)

3rd November.

2824. Charles William Siemens, of John Street, Adelphi, in the county of Middlesex, for an invention of "Improvements in fluid meters."—Dated 29th November, 1856.

4th November.

2593. William Weild, of the city of Manchester, in the county of Lancaster, Machinist, for an invention of "Improvements in velvet or cut pile fabrics, and in looms or machinery used for weaving such velvet and other loop pile fabrics."—Dated 5th November, 1856.

2596. Charles Titterton, of Roehampton, in the county of Surrey, for an invention of "Improvements in the manufacture of zinc and zinc white."—Dated 5th November, 1856.

2617. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, for an invention of "Improvements in the manufacture of cranked axles and shafts."—A communication from C. Russery.—Dated 6th November, 1856.

2831. Joseph Latimer Clark, of Adelaide Road, Haverstock Hill, Hampstead, for an invention of "Improvements in electric telegraphs."—Partly a communication.—Dated 29th November, 1856.

5th November.

2625. Louis Joseph Victor Vuitton, of Paris, in the empire of France, Mechanician, for an invention of "An improved apparatus for consuming smoke."—Dated 7th November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 4th November*, 1859, *inclusive.*)

3rd November.

649. Andrew Lawson Knox, of Glasgow, in the county of Lanark, North Britain, Manufacturer, for an invention of "Improvements in the manufacture or production of ornamental fabrics."—Dated 5th November, 1852.

650. James Wotherspoon, of Glasgow, in the county of Lanark, North Britain, Wholesale Confectioner, for an invention of "Improvements in the manufacture or production of confectionary, and in the machinery, apparatus, or means employed therein."—Dated 5th November, 1852.

4th November.

656. Admiral the Earl of Dundonald, of Belgrave Road, in the county of Middlesex, for an invention of "Improving bituminous substances, thereby rendering them available for purposes to which they never heretofore have been successfully applied."—Dated 5th November, 1852.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 18th October, 1859, and each bearing that date.

No. 25,795. Saml. C. Abbot, of Zanesville, O., for an "Improvement in the adaptation of wads to shots and shells."

"I claim, in combination with a shot or shell that receives its rotation by the action of the atmosphere in its flight, and which has an open funnel-shaped base, a similarly shaped open wad or packing, that when expanded by the gas shall impinge, both upon the bore of the gun and the interior of the shot or shell, as herein described and represented."

No. 25,796. Avery Babbitt, of Auburn, N.Y., for an "Improvement in jacquard machines."

"I claim, first, arranging two or more trapboards in one frame, in such manner, that when all the said trapboards so arranged are lifted for the purpose of opening the shed all the untrapped knot cords may pass said truss boards without obstruction, in combination with an ascending and descending suspension board, substantially as above described. Second, in combination with the jacquard machine, I claim the device represented on the sides of the machine for working the journals or parts of journals, consisting of the pin wheel Z, shaft B^1, hooks y, y, y, y, and the hooks o, o, o, o, and the dog E^1, substantially in the manner and for the purposes specified. Third, dividing the journals commonly used in two or three ply jacquard weaving, and working them in any required order, substantially in the manner and for the purpose above specified."

No. 25,797. E. Ball, of Canton, Ohio, for an "Improvement in harvesters."

"First, I claim the hinged plate G, constructed as shown and specified, in communication with the finger bar D, and brace plate E, substantially as described. Second, I claim the combination of the coupling arm t, (swiveled only at the point of connection with the main frame), in combination with hinged plate G, hinged braced plate E, and guide piece F, substantially as set forth. Third, I claim the guide piece F, in combination with the brace rod q, hinged plate G, brace plate E, coupling arm t, and chain b^{11}, substantially as described. Fourth, I claim the combination and relative arrangement of spur k^1, with coupling arm t, and pitman k, as and for the purposes set forth. Fifth, I claim the combination of the hinged plate G, and adjusting screw s, with the slotted guide piece F, hinged brace plate E, and chain b^{11}, arranged as and for the purposes set forth."

No. 25,798. Daniel Barnum, of New York, N.Y., for an "Improvement in steam engines."

"I claim the method of constructing and combining adjustable cut-off cams and adjusting screws and a revolving and sliding rock shaft, substantially as specified, and of combining these with the means described for working puppet valves in steam engines, substantially as and for the purposes specified; the method of constructing or using, or adjusting, the cut-off cams 1, 1^1, for the purpose of enabling me to fix or to adjust the point at which the steam is to be cut-off during any portion of the stroke, whether it be done while the engine is in motion or at rest, substantially as described and shown, Figs. 1, 4, and 5."

No. 25,799. Wm. W. Batchelder, of New York, N.Y., for an "Improvement in construction of vapor lamp burners."

"I claim modifying the flame under the retort by means of the wires a^1, a^2, or their equivalents, in such manner that the deposit of carbon shall be prevented and the blue flame produced, as herein set forth. I claim deriving the gas for heating the retort from the gas pipe d, after its commixture with air, and before it reaches the illuminating jet m, by means of the aperture n, as set forth."

No. 25,800. John Beach, of De Ruyter, N.Y., for an "Improvement in cheese hoops."

"I claim, firstly, a hoop, having a cross-cut or division at its periphery, and constructed to open and close as described, when provided on opposite sides of said division with hook or eye straps, united by a tie band of oval configuration or other similar shape, and serving in connection with the eye straps to open and close the hoop, and to hold the same when expanded or contracted, substantially as herein set forth. Secondly, providing the oval tie band to the hook or eye straps of the opening and closing hoop, with a lever or handle arranged to cross the oval band at points intermediate to the intersections therewith of the transverse and conjugate axis of the band, and secured to the band on its one side, but projecting freely through it on the opposite side, essentially as specified."

No. 25,801. Charles G. Bloomer, of North Kingston, R. I., for an "Improvement in operating window blinds."

"I claim the segmental disk D, or its equivalent, and the spring F, or its equivalent, in combination with one of the slats of a blind, when arranged to operate in the manner, substantially as described for the purposes specified."

No. 25,802. M. S. Bringier, of New Orleans, La., for an "Improved steam boiler."

"I claim the arrangement of a series of horizontal tubes or pipes, connecting two cylindrical chambers or reservoirs of water and steam, in combination with the steam cylinder C connecting the same chambers, substantially as described."

No. 25,803. Wm. M. Bryant, of Washington, D.C., for a "Smoking tube."

"I claim a tubular tobacco pipe, which contains the supply of tobacco within it, and is furnished with a spring and follower, or their equivalents, that force up the tobacco to the burning point or chamber, as fast as it is consumed, substantially in the manner and for the purpose herein set forth."

No. 25,804. S. N. Campbell, of Elgin, Ill., for an "Improved churn."

"I claim the arrangement and combination of the button K, dasher rod F, movable slats H, H^1, pieces L, and bar J, as and for the purposes herein set forth and described."

No. 25,805. John H. Carter, of Cincinnati, O., for "Improvements in the construction of hydrants for filtration."

"I claim the cylindrical inner vessel (g) within the case A, and made removable, as represented, in combination with the receiver B, for receiving the sediment, as described, and the cap e^1, for favoring the direction of the sediment downward, in the manner and for the purpose set forth."

No. 25,806. Asa L. Caswell, of Lansingburgh, N. Y., for an "Improvement in operating gun carriages."

"I claim, first, returning the gun up to the porthole after being discharged by means of a roller and cords or chains operated by a lever, or its equivalent, when the same are arranged in the manner, and dispense with the use of gun tackle, as set forth. Second, I claim the manner herein described, or equivalently the same, for securing the gun and carriage in a fixed position upon the truck, so as to maintain a given range for any number of discharges, as set forth."

No. 25,807. Leverett Clark, of Monticello, N.Y., for an "Improvement in hem folder."

"I claim the hem folder, composed of a straight gauge a, and adjustable plate c, constructed as described, and a bar k, the whole combined as described, either arranged as shown in Figures 1, 3, and 4, or as in Figures 2, 5, and 6, and operating substantially as herein described."

No. 25,808. B. R. Cole, of Geneva, N. Y., for an "Improved method of opening and closing gates."

"I claim the attachment of the bar G^2 to the levers G^3 and G^4, at such points as to give their lower ends the same motion inward or outward at the same time, as in my description above substantially set forth."

No. 25,809. Jonathan Creager, of Cincinnati, O., for an "Improvement in machines for sawing beveled curves."

"I claim, 1st, the combination of the inclined rest R with a crown saw, for the production of a crowning cylindrical segment. 2nd, the combination of the rocking rest H, with a crown saw, for the manufacture of a cylindrical segment having oblique axes."

No. 25,810. James Cumming, of Boston, Mass., for an "Improved try-cock for steam boilers."

"I claim the combination with an ordinary try cock E, of a straight hollow tube D, moving vertically on axis C, and which is also the indicator at its outer closed end, and extending through the end or side of the boiler, and at certain periods remaining elevated above the level of the water, but capable of being brought below the same whenever necessary, substantially as and for the purposes set forth."

No. 25,811. Wm. P. Curry, of Vincennes, Ind., for an "Improved feed water apparatus for steam boilers."

"I claim the arrangement of the rods G, G^1, H, H^1, I, I^1, or their equivalents, to operate in combination with the disks *i*, *e*, *k*, *m*, or their equivalents, and with the float B and stop valve K, substantially as and for the purpose described."

No. 25,812. Andrew J. Curtis, of Frankfort, Me., for an "Improvement in operating field gates."

"I claim the improved arrangement of mechanism hereinbefore described for opening or closing a gate, the same consisting of the lever G and the connecting rods M, N, applied to the said lever and the gate posts H, I, substantially in manner and for the purpose set forth. And, in combination therewith, I claim the peculiar arrangement of the block *f*, the same operating in connection with the lever G, in manner and for the purpose specified."

No. 25,813. J. B. Dagne, of Ashley, O., for an "Improvement in construction of evaporating apparatus."

"I claim the employment of the pan F, which is provided with two or more compartments, and situated over a furnace, when said pan is used in connection with the slides E and C, and damper D, the whole being combined and arranged substantially in the manner herein set forth, for the purpose of forming a sugar evaporator, as is described."

No. 25,814. John Danner, of Canton, O., for an "Improvement in sleeping cars."

"First, I claim the combination of the hinged false back *d* with the permanent back *a*, as and for the purposes set forth. Second, I claim making each alternate back *a* with a false back *d*, in combination with making each alternate back a^1 shorter than the backs *a*, and hinged to the seat c^1, substantially as and for the purposes set forth."

No. 25,815. John Ebner and Frank Lenthy, of Lancaster, Pa., for an "Improvement in harvesters."

"We claim the arrangement of the three eccentrics C, C, and D, revolving with the shaft of the driving wheel, in combination with the rake connecting mechanism, constructed and operating in the manner described."

No. 25,816. David Eldred, of Monmouth, Ill., for an "Improvement in ploughs."

"I claim the arrangement, for joint operation, of the share frames B, B, axle H, and coulter L, as and for the purpose set forth."

No. 25,817. Gilmore Emery and Aaron C. Wilson, of Newfield, Me., for an "Improvement in ploughs."

"We claim the arrangement of the various parts of the plow, when constructed as herein described, for the purposes set forth."

No. 25,818. Frank P. Goodall, of Deering, N. H., for an "Improvement in pruning knives."

"I claim the improved article of manufacture, or combination of pruning knife and arm rest, arranged substantially as specified."

No. 25,819. Merritt Goodman, of Whitlocks, Cal., for an "Improvement in machines for crushing quartz."

"I claim a revolving mortar 'I,' or stamping bed, in combination with a hollow stamp and shaft 'A,' described as aforesaid."

No. 25,820. Oliver C. Green, of Dublin, Ind., for an "Improvement in clothes racks."

"I claim the combination and arrangement of the center post A, *a*, arms B, C, and braces D, E, operating in the manner and for the purposes set forth."

No. 25,821. Joel Haines, of West Middleburgh, O., for an "Improvement in field fences."

"I claim the peculiar construction of the braces, so as to adapt them to the keys, when combined with a sill having one or more notches, so as to hold the fence perpendicular when the sill lies inclined, substantially as described."

No. 25,822. Wm. Hall, of Indianapolis, Ind., for an "Improved apparatus for preventing horses from running away."

"I claim the apparatus herein described when constructed and operated in the manner and for the purpose herein set forth."

No. 25,823. Wm. Hall, of Indianapolis, Ind., for an "Improved lightning rod.'

"I claim as an article of manufacture the construction of a lightning rod, presenting a great amount of conducting surface in a compact form, when the same is constructed in the manner described."

No. 25,824. Samuel W. Hamsher, of Decatur, Ill., for an "Improvement in harrows."

"I claim the arrangement of the harrow frames, toothed roller, and hinged adjustable arms, as herein set forth and explained, and for the purpose stated."

No. 25,825. Joseph Harris, of Alleghany, Pa., for an "Improvement in railroad brakes."

"I claim, 1st, the combination of the winding apparatus, the weight w^1, lever *t*, rod r^1, bent lever e^1, sliding ring d^1, sleeve *r*, anti-friction ring Z^1, and Z^{11}, conical center piece *p*, collar c^{11}, with friction plates a^1, and a^{11}, and spring plates b^1 and b^{11}, also screws n^1 and n^{11}, arranged in the manner and for the purpose substantially of operating a railroad brake. 2d, the combination of the pawl *t* and spring *u* with ratchet *s*, and drum *l*, with short chains *k*, *k*, and rods *h*, *h*, the arm *m*, *m*, with pulleys *q*, *q*, connected by chains, rods, or ropes for applying and maintaining the strain of a railroad brake at the centre of each car, substantially as herein-before described and set forth. 3rd, the combination of the rod *v* with the long arm of pawl *t*, and the cross lever *y* connecting the shaft of the bunter X to pawl *t*, for the purpose of setting the brakes free, the whole substantially as herein-before described and set forth."

No. 25,826. James Hawkins, of Wilkins Township, Pa., for an "Improvement in steam ploughs."

"I claim the arrangement of the frames A and F, levers J and E, caster wheels G and I, drivers B, crank shaft S, cutter P, toothed cylinders C and H, levers D and N, operating conjointly as set forth, for the purposes specified."

No. 25,827. Joseph Hollen, of Fostoria, Pa., for an "Improvement in knitting machines."

"I claim the combination of a needle, the barb of which is pressed by its own spring into its own groove with a thread carrier to release the barb, and lay the thread therein, and a supporting guide to sustain the needle, when arranged and operated substantially in the manner and for the purpose described."

No. 25,828. Francis A. Hoyt, of Boston, Mass., for an "Improved water gauge for steam boilers."

"I claim the above-described arrangement of the steam whistle, its valve conduit, and valve seat relatively to the dry steam chamber and the operating lever of the float."

No. 25,829. Thos. J. Hudson, of Newbern, N. C., for an "Improvement in packing piston rods of steam engines."

"I claim the method of packing the glands *a*, *a*, and applying the glands *c*, *c*, with the packing in *d*, *d*."

No. 25,830. Wm. H. Hunt, of Brooklyn, N. Y., for "Improvements in the construction of vapor burners."

"I claim the combination in a vapor burner of a conic frustum *i* and draft holes *k*, substantially as specified, in combination with the orifice *n* and damper *v*, the whole being constructed and combined substantially as and for the purpose specified and shown."

No. 25,831. Geo. P. Hunt, of New York, N. Y., for an "Improvement in oil cans."

"I claim the arrangement of the valve in the point of the tube or spout, as described, in combination with the extension of the point of the valve for operating it, by which arrangement, when the point of the valve is relieved from pressure, the further discharge of oil from within the tube is prevented, as set forth."

No. 25,832. J. Burrows Hyde, of Newark, N. J., for "Improvements in the construction of compound blow pipe."

"I claim, 1st, the compound conical nozzle *g*, constructed with the projecting tubes *n* and *k*, as described, combined with the concentric elastic tubes *e* and *f*, as described; and 2d, the receiving tubes *a* and *b*, with their projecting tubes *c* and *d* for attaching thereto the elastic tubes, as described."

No. 25,833. A. Kirlin, of New Boston, Ill., for an "Improvement in corn planters."

"I claim the cam I, spring arm J, ratchet and pawl K, L, when the same are arranged as set forth, and operated by the marker wheel G, G, for giving motion to the rotary hopper bottoms for planting the corn, as herein-before described."

No. 25,834. Geo. H. Kitchen, of New York, N. Y., for an "Improvement in the construction of gas regulators."

"I claim the construction of the valve chamber A, having the valve fitted within it, substantially as described, with a series of recesses *d*, *d*, whose width increases in an upward direction, or an equivalent series of passages surrounding the valve, and having their area of opening increased by the ascent and diminished by the descent of the valve, as described."

No. 25,835. Adam Klaus, of Belleville, Ill., for an "Improvement in seed planters."

"I claim the valve *r*, in combination with the sliding door *p*, when the same are operated simultaneously with the seed slide, substantially in the manner and for the purpose described."

No. 25,836. Jesse S. Lake, of Smith's Landing, N. J., for an "Improved steering apparatus."

"I claim the arrangement of catches I, I, braces L, L, collar O, pin F, in combination with the barrel C, substantially in the manner and for the purposes set forth."

No. 25,837. James Lancelott, of South Providence, R. I., for an "Improvement in making ornamental chairs."

"I claim, 1st, the employment or use of the filling b^1 in the female die Q, when used in connection with a traveling die *r*, for the purpose of ensuring the proper presentation of the blanks to the latter, and at the same time admitting of a proper cutting edge for the female die Q. 2nd, the employment or use of a forming die J in connection with a rotating or partially rotating die *r*, arranged substantially as shown, to ensure simultaneously with the process of swaging of the blanks into the proper-shaped links the proper adjustment of the latter, for interlocking of the same. 3rd, the decreased diameter of the upper portion of the forming die J, so as to ensure the adhesion of the cap, cup, or link to it, and enable said die to perform the double function of die and carrier, when said die J is used in connection with the die *r*, to operate conjointly as and for the purpose set forth. 4th, constructing the die *r* with a rod v^1 with or without shears or projections a^1, and arranged substantially as and for the purpose set forth. 5th, the clearer rod *h* and collar *n*, either or both applied to the forming die J and arranged to operate in connection with the die *r* and rod *v*, substantially as and for the purpose set forth. 6th, the clamps *j* in connection with the swage or clinching tool R, or its equivalent, arranged to operate conjointly, as shown, and for the purpose specified. 7th, the guide plate *f*, in connection with the swage or clinching tool R, the forming serving as a guide to the latter and ensuring its proper action. 8th, the swage or clinching tool R, when constructed, as shown, to bend or clinch the arms of the links, and at the same time keep the arms of the uppermost link in proper position, so that the latter may readily receive the succeeding link."

No. 25,838. S. E. Lanphear and O. D. Barrett, of Cleveland, O., for an "Improved washing machine."

"We claim supporting the disk D by its stem C on the standard B, as and for the purpose herein set forth."

No. 25,839. Evan Leigh, of Manchester, England, for an "Improvement in cotton spinning machinery."—Patented in England, 26th February, 1858.

"I claim, firstly, the construction of the top rollers and spindles with the arrangement of one or more of the bosses loose, revolving thereon. Secondly, the application of a journal for all kinds of shafting, spindles, studs, or axles, having the bearing part of the shaft, spindle or axle, or stud larger in diameter than the part immediately outside the bearing. And, thirdly, the rounding out or dishing the edges of steps or bosses, in combination with the tapering of journals or axles of all kinds, by which I obtain the action of capillary attraction, for the purpose set forth. I also claim the application of a top roller of a spinning machine to its spindle, in such manner as to enable such top roller to rotate on the spindle, and to rock in a longitudinal direction thereon, in order that it may properly adjust itself to the under roller while the two may be in use."

No. 25,840. Frank Maxson, of San Francisco, Cal., for an "Improved amalgamator."

"I claim the use of the eccentric revolving pan, constructed and operated as described in connection with the amalgamated plate as specified. I also claim the arrangement of the shaft E, projection pin F, with the slotted piece C^1, and wood D^1, whereby a more or less eccentric motion is imparted to the pan A, as described."

No. 25,841. Thomas J. Mayall, of Roxbury, Mass., for an "Improvement in composition of emery for grinding and polishing tools."

"I claim my new compound for emery, sharpening and polishing tools, the same being made by combining 15lbs. of emery, 1lb. of india rubber or gutta percha, and 5oz. of sulphur."

No. 25,842. C. A. McEvoy, of Richmond, Va., for an "Improvement in metallic seals for letters, &c."

"I claim the use together in the manner herein described of the metallic concave discs, having sharp points projecting from their circumferences substantially as set forth."

No. 25,843. Thomas McQuiston, of Morning Sun, O., for an "Improvement in cultivators."

"I claim the described arrangement of the elevated axle D, beams A, A^1, brackets C, C^1, and rods B, B^1, the whole being constructed in the manner and for the purposes set forth."

No. 25,844. John H. Mears and George Cameron, of Oshkosh, Wis., for an "Improvement in car coupling."

"We claim, 1st, the tongue G for retaining link H, constructed and operating as described. 2nd, the arrangement of yoke A, lever C, and spring B, and connecting rod F, constructed and operating as described."

No. 25,845. Adam Miller, of Mount Pleasant, Iowa, for an "Improvement in mole plough."

"I claim the employment of the rod H, in combination with the coulter B, provided with staples *o*, *o*, o^1, and the mole I, provided with the hooks *m*, *n* and *s*, *s*, substantially as and for the purposes specified."

No. 25,846. John Morrison, of De Witt, Ill., for an "Improvement in mole plough."

"I claim the draught chain G, bar F, loops H, H, and the adjusting screw rods J, J, or their equivalents, combined, arranged and applied to the plow, substantially as and for the purpose set forth."

No. 25,847. Wm. Henry Morrison, of Nottingham, England, for an "Improved machine for manufacturing bonnet and cap fronts, &c."

"I claim the application in apparatus or machinery of the character referred to of bars or gauges *h*, *h*, operated to move simultaneously towards the lace or other fabric, substantially as explained. Also, I claim the adaptation of plates *f*, *f*, operating in manner and for the purpose substantially as explained, when employed in the manufacture of bonnet and cap fronts, rouches, and such like articles of millinery."

No. 25,848. Enoch Osgood, of Boston, Mass., for an "Improvement in cotton gins."

"I claim, 1st, the rollers B, B, plates C, C, and bands D, arranged substantially as and for the purpose set forth. 2nd, the combination and arrangement in a cotton gin or wool burring machine of the clearer K, rollers B, B, angular plates C, C, bands D, slotted arms or bars J, J, *d*, *d*, pinion G, and wheel I, in the manner and for the purpose herein described."

No. 25,849. Sewall Pearson, of Boston, Mass., for an "Improved cabinet chair."

"I claim arranging in a bureau, chair, or other piece of furniture A, in combination with a perforated seat B, and with a self-closing pot G, a water tank C, which forms the back for the seat, and which communicates with the pot by means of a spout E, substantially as and for the purpose specified."

No. 25,850. Geo. J. Prentiss, of Fall River, Mass., for an "Improved polishing iron."

"I claim the polishing cup A, as set forth, having two handles C, E, arranged as represented and described, or in any other manner substantially the same, for the purposes herein mentioned."

No. 25,851. Hiram M. Smith, of Richmond, Va., for an "Improvement in truss for relieving piles."

"I claim as improvements in the construction of anti-hemorrhoidal pads, 1st, the manner of sustaining such pads by means of springs passing from the pad to the front of the patient, and in a spiral form along the groin to a point over the hip joint, in combination with the plan of sustaining the instrument by flexible fastenings attached above the hip joints, thus making the instrument self-adjusting, and enabling the patient to exercise in any position without inconvenience. Second, the manner of balancing the instrument by means of flexible fastenings attached over the hip joints, no matter how the arms of the pad may be varied."

No. 25,852. Joseph W. Sprague, of Rochester, N. Y., for "Improvements in tubular connections of bridges."

"I claim the above-described series of clutches C, provided with bands *c*, in combination with the tubular sections B, for the purpose substantially as set forth."

No. 25,853. David H. Stickney, of Cincinnati, O., for an "Improvement in cocks."

"I claim the supplementary chamber D and stationary stuffing box C, in combination with a hollow piston E, having ingress apertures G, adapted to be placed on either side of the said stuffing box by the motion of the piston, as set forth."

No. 25,854. Augustus J. Thompson, of Malden, Mass., for an "Improvement in bustles."

"I claim the combination of a spring bustle, of a flat spring or springs (*b*) united at their ends, to form the perimeter of the bustle or its framework, and spread or divided to establish a base at their bearing surface or surfaces against the body of the wearer, and spiral springs (*c*) of conical configuration, and arranged to form cross ties to the flat springs, with their bases resting against the base formed by the latter, and for action in concert with the latter, and unitedly, essentially as herein set forth."

No. 25,855. Elijah Thorn, of Selma, O., for an "Improvement in portable crab for mole ploughs."

"I claim the arrangement of the frame F as constructed, with the boxes *a*, *a*, which are attached to the rear of the frame A, and with the axle I, and wheels J, J, the several parts being connected together and used not only for elevating the machine but for guiding its rear and changing its position, substantially as set forth."

No. 25,856. Eben C. Tuttle, of Naugatuck, Conn., for an "Improvement in manufacture of hoes."

"I claim the construction of a hoe as a new article of manufacture, by securing the eye in the blade by two projecting swells or beads (*a* and *b*), when constructed and fitted for use, substantially as herein described."

No. 25,857. Benjn. F. Wells, of Georgetown, D. C., for an "Improvement in naval architecture."

"I claim deriving the lines of vessels of all kinds and dimensions from sections of a circular spindle of any dimensions or proportions, substantially as described and shown."

No. 25,858. Wm. Wheeler, of West Poultney, Vt., for an "Improved carpet stretcher."

"I claim the stretcher C when provided with the notch and the heel points *t*, *t*, for the purpose herein set forth."

No. 25,859. J. T. Wilder, of Greensburgh, Ind., for an "Improved horizontal water wheel."

"I claim, 1st, constructing a water wheel with two sets of involute buckets, whose capacity shall be in the relative proportion to each other herein fully specified, for the purpose set forth. 2d, the combination with a wheel such as has been described, of a casing provided with two channels of different capacities, and with two gates arranged as described, the whole being constructed and operated, substantially as and for the purpose specified."

No. 25,860. Charles A. Wilson, of Cincinnati, O., for an "Improvement in thermostats."

"I claim a tubular thermostat forming a part of the steam or other passage, to be regulated and adapted by means of the unequal expansion of the metals of which it is composed, to close the said passage by lateral deflection, as explained."

No. 25,861. Geo. W. Yerby, of New York, N. Y., for an "Improvement in bustles."

"I claim the bustle, as described, in which the waistband has a back piece S, and a corset, or part corset *a* in front, provided with one, two, or more sets of pockets into which the springs of the bustle are inserted, the whole being constructed and operated in the manner and for the purpose substantially as described."

No. 25,862. James M. Adams, of Canton, Mass., assignor to himself and Alonzo Johnson, of same place, for an "Improvement in weeding hoes."

"I claim the arrangement of the two blades with the bifarcated handle, the whole being constructed in the manner and for the purposes herein set forth."

No. 25,863. Benjn. L. Agnew, of Indiana, Pa., assignor to G. P. Reed, of same place, for an "Improvement in preserve cans."

"I claim the combination in a preserve jar of a deep outer flanch or rim E, with a shallow inner flanch B, in the manner and for the purpose herein described."

No. 25,864. John G. Baker, of Washington, D.C., assignor to himself and Asa L. Carrier, of same place, for an "Improvement in the rods of window blinds."

"I claim the peculiar construction of thin metallic tubes, the two edges so forming the ears or rings (*e*, *e*, *e*), in combination with wire staples or rings to connect wood slats for movable blinds, substantially as set forth."

No. 25,865. Barron Davis, of Brooklyn, N. Y., assignor to Osborn and Vincent, of New York City, for an "Improvement in bustles."

"What I claim is, attaching the hoops *c*, *d*, *e*, &c. to the extension B by fixed and immovable connections (so that the hoops cannot be thrown forward or outward) when the hoops are connected to the band A by means of the cross bands *g*, *g*, in combination with the back point or extension C, as and for the purposes set forth."

No. 25,866. J. Burrows Hyde, of Newark, N. J., assignor to Phebe Bamman, of same place, for an "Improvement in the method of making gas from peat."

"I claim, 1st, exposing such peaty matter to thorough desiccation by artificial heat, and conveying it to the retort

without permitting it to absorb moisture from the air. 2d, granulating or powdering such peaty matter, distilling and cooling it in closed cases, as described. 3rd, employing the heat evolved in cooling the carbonized material to aid in desiccating the peaty matter, as described."

No. 25,867. JOHN MACLURE, of Newark, N. J., assignor to himself, Samuel E. Tompkins, and Samuel C. Northrup, of same place, for an "Improved machine for covering saddle trees."

"I claim the employment of an elastic bed or cushion D in combination with the cover and seat J, substantially as and for the purpose herein shown and described. 2nd, the arrangement and combination of the box B, adjustable sliding bars E, elastic cushion D, seat J, clamp K[1], and pressing lever G, as and for the purpose herein shown and described."

No. 25,868. S. W. PALMER and J. F. PALMER, of Auburn, N. Y., assignors to S. W. Palmer, N. Palmer, and John Patty, of same place, for an "Improved clothes frame."

"We claim, 1st, hinging the arms of a clothes frame to the sliding hubs, by means of the pins *d*, which are supported by the open lugs C, when said arms are constructed, and the several parts arranged, substantially in the manner and for the purpose described. We also claim, in combination with the shaft and its grooves, the sliding catch ring F, with its spring *h*, and projection *i*, for retaining the frame in its position, substantially as described. We also claim, in combination with the central post or shaft and sliding frame, the hoisting apparatus, consisting of the clutch rings *k* and *m*, with their springs *e*, lever *p*, and link *q*, substantially in the manner and for the purpose described."

No. 25,869. CONRAD RODER, of Ceralvo, Ky., assignor to himself and J. F. Iler, of same place, for an "Improvement in fancy looms."

"I claim the combination and arrangement of the double catch hooks (*h*, *h*[1]), adjustable guide plate (*j*), the sash E and J, with the lifting bar (K), in the manner and for the purpose herein described."

No. 25,870. WM. DAVID SLOAN, of New York, N.Y., assignor to A. B. Chapman, of same place, for an "Improved clasp for skeleton skirts."

"I claim the clasp *c*, for uniting the tapes or galloons to the hoops in the skeleton skirts, said clasp being formed with a narrow ribbon or V-shape back piece (2), for the purposes as specified."

No. 25,871. JAMES SPEERS, of West Manchester, Pa., assignor to himself, Alexr. Postley, and John Wible, of Alleghany county, Pa., for an "Improved paddle wheel."

"I claim the arrangement of the flanges (*a* and *a* 1), the arms (*b*), with points (X), the braces (*c*), and floats (*d*), when used for the purpose of constructing a propeller, substantially in the manner herein set forth."

No. 25,872. STEPHEN F. VAN HAGEN, of Albany, N. Y., assignor to George Kilbourn, of same place, for an "Improvement in banjos."

"I claim the combination, in one instrument, of the banjo parchment covered open body with the neck and fretted finger board of the guitar, the thumb string of the banjo being added to the usual strings of the guitar, substantially in the manner and for the purposes set forth in the within specification. I also claim the formation of the front part of the body of the instrument, of an acute oval or lancet form, in the manner and for the purposes set forth in the within specification."

RE-ISSUES.

SQUIRE M. FALES, of Baltimore, Md., for an "Improved furnace for smelting iron."—Patented 8th February, 1859.—Re-issued 18th October, 1859.

"I claim, 1st, the combination with the cone of a furnace of one or more arched recesses or chambers A, A, substantially as and for the purposes set forth. 2nd, the combination of an opening I, with the crown of the arch A, substantially as and for the purposes set forth." 3rd, the combination with the arch recess A, opening I, in the crown of the same of a movable tymp B, B, to be applied to the outer ends of the arched recesses or chambers A, A, instead of the permanent tymp now in use, which movable tymp is kept in place by a cross bar that can be removed at pleasure, substantially as and for the purposes set forth."

CHARLES B. WAITE and JOSEPH W. SENER, of Fredericksburgh, Va., for an "Improvement in coffee pots."—Patented 22nd April, 1856.—Re-issued 10th August, 1858.—Again re-issued 18th October, 1859.

"We claim the employment in a condensing boiler in which the water in the condenser is impregnated with the aroma of the coffee or other articles under treatment of a syphon, or equivalent self-acting device, for the discharge of the contents of the condenser into the body of the boiler, substantially as described."

HOLLY SKINNER, of Huron, Ohio, for an "Improved calender clock."—Patented 2nd March, 1858.—Re-issued 18th October, 1859.

"I claim, 1st, the extra movable tooth *m* and leap-year wheel G applied to or controlled by the gear wheel F, to operate in the manner described, for the purpose of regulating the effective length of the tooth which represents the month of February. 2nd, the arrangement of the month wheel C, its attached pinions *t*, and pin 4, the rack bar H, and its pawl *q*, the spring *v*, or its equivalent, the lever D, E, and its stud *i*, or their equivalents, the catch K, or its equivalent, and the stop 7, the whole being applied to operate upon and be controlled by the year wheel of a calender movement, as and for the purpose herein set forth. 3rd, arranging the month wheel in such a manner that the same at the end of each month returns to its original position by the action of a spring, or its equivalent, gathered up or strained by the action of the clockwork, substantially in the manner and for the purpose herein described."

WALLACE WELLS, of New York, N. Y., for an "Improved construction of cylinders and pistons for pumps and steam engines."—Patented 12th October, 1858.—Re-issusd 18th October, 1859.

"I claim the combination of the cylinder open at both ends with three pistons, and their connections, arranged substantially as herein set forth."

CHARLES WESTON, T. F. WESTON, and JOHN W. WESTON, of Salem, Mass., for an "Improvement in leather finishing machines."—Patented 25th September, 1855.—Re-issued 18th October 1859.

"We claim, 1st, in machines for finishing leather, the employment of a soft elastic bed, substantially as described, 2nd, the combination of an elastic bed and tool both constructed and operating together, to produce the desired effect upon the leather, as set forth. 3rd, in combination with the soft elastic bed and elastic finishing tool, the cord *p*, secured to the tool stock for the purpose of keeping the tool clear of the leather during its retrograde movement over the bed, as herein-above set forth."

ARETUS A. WILDER, of Detroit, Mich., for an "Improved clap-board machine."—Patented 30th October, 1855.—Re-issued 18th October, 1859.

"I claim resawing and bringing plank to an equal width at the same time. 2nd, the flange rollers, with their springs, or equivalents, in combination with the adjustable back rest, for the purposes herein-before described."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
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W.C.

List of Specifications published during the week ending 4th November, 1859.

No.	Price.	Subject-Matter.
762	3*d.*	Pillow travelling cap.
766	3*d.*	Apparatus for measuring and indicating distances.
773	3*d.*	Diving apparatus.
782	3*d.*	Manufacture of gas.
783	3*d.*	Manufacture of railway grease.
784	3*d.*	Motive power, projectiles, &c.
787	3*d.*	Increasing the strength of paper.
788	10*d.*	Apparatus for preparing and preserving timber.
789	10*d.*	Machine for cutting leather and other materials.
790	10*d.*	Manufacture of clog soles, &c.
791	3*d.*	Binding or covering books.
792	4*d.*	Manufacture of silk waste into yarns or thread.
793	3*d.*	Construction of ways and apparatus for the conveyance of mails, goods, and passengers.
794	3*d.*	Apparatus for preventing the explosion of steam boilers.
795	7*d.*	Apparatus for stamping and printing.
796	3*d.*	Castors for furniture.
797	9*d.*	Clod crushers.
798	6*d.*	Apparatus for defending guns, &c.
799	3*d.*	Manufacture of alkaline silicates, &c.
800	7*d.*	Governor for marine and other steam engines.
801	10*d.*	Apparatus for regulating the flow of fluids.
802	6*d.*	Machinery for preparing and spinning cotton, &c.
803	3*d.*	Apparatus for brewing.
804	3*d.*	Apparatus for cultivating land.
805	1*s.*	Rotary engines.
806	1*s.*	Steam boilers and furnaces.
807	1*s.* 1*d.*	Sextants or quadrants.
808	3*d.*	Sounding lead or plummet.
809	1*s.* 1*d.*	Generation of steam, &c.
810	1*s.* 5*d.*	Fences, posts, pillars, &c.
811	7*d.*	Mills for cleaning rice.
812	7*d.*	Steam boiler and other furnaces.
813	7*d.*	Feed water heating apparatus.
814	3*d.*	Preparation of food for herbivorous animals.
815	3*d.*	Manufacture of artificial teeth.
816	3*d.*	Machinery for solidifying, pressing, and moulding.
817	3*d.*	Preparation of indigo for dyeing.
818	5*d.*	Cricket bats.
819	4*d.*	Manufacture of sulphate of lead, &c.
820	3*d.*	Pad for inking or damping.
821	1*s.* 5*d.*	Marine steam engines.
822	6*d.*	Propeller for ships, vessels, &c.
823	3*d.*	Gas burning and lighting apparatus.
824	1*s.*	Machinery for striking or scraping leather or hides.
825	3*d.*	Machinery for hoisting, lowering, pulling, or drawing weights.
826	3*d.*	Furnaces for the manufacture of iron and steel.
827	3*d.*	Making up packets of needles and steel pens.
828	3*d.*	Apparatus for regulating the pressure of gas.
829	3*d.*	Apparatus for catching and destroying flies, &c.
831	3*d.*	Diving apparatus.
832	10*d.*	Furnaces.
833	7*d.*	Harbours of refuge, breakwaters, &c.
834	6*d.*	Screw stocks and dies.
835	3*d.*	Manufacture of calico printing rollers or cylinders, &c.
836	10*d.*	Machinery for the manufacture of bricks, tiles, &c.
841	3*d.*	Ladies' hooped skirts.
843	10*d.*	Working marine engines.
846	7*d.*	Coating metals.
851	3*d.*	Ornamenting metallic bedsteads, &c.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos. 33 and 85, respectively dated 8th April*, 1626, *and 23rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated 22nd February*, 1620, *and 2nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated 24th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset. Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent. No.* 347, *dated 10th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated 25th July*, 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated 7th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated 21st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent No.* 602, *dated 16th March* 1744.) Price

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NUMBER of VISITORS for the Week ending 5th November, 1859.

Mornings - - - -	927
Evenings - - - -	1288
Total - - -	2215

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B. WOODCROFT.

Great Seal Patent Office,
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B. WOODCROFT.

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THE

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No. 611. FRIDAY, NOVEMBER 11, 1859. Price 2d.

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NOTICE is hereby given that Provisional Protection has been allowed

1894. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in the construction of carriages, and in apparatus for guiding or reining in carriage horses."—A communication from abroad by Isaac M. Singer, of New York, in the United States of America.

On his petition, recorded in the Office of the Commissioners on the 17th day of August, 1859.

1932. To GEORGE RILEY, of Elm Tree Lodge, South Lambeth, in the county of Surry, for the invention of "Improvements on helical refrigerators for cooling brewers and distillers worts."

On his petition, recorded in the Office of the Commissioners on the 24th day of August, 1859.

2083. To ANTON BRUNO SEITHEN, of 6, Alpha Place, Caledonian Road, London, in the county of Middlesex, for the invention of "Improvements in apparatus for shaping cork stoppers, and in the manufacture of life buoys and buffers of cork."

On his petition, recorded in the Office of the Commissioners on the 13th day of September, 1859.

2144. To LEONARD MATTHEWS, of No. 28, Fletcher Gate, in the town and county of the town of Nottingham, Lace Manufacturer, for the invention of "Improvements in machinery to be employed in introducing plain or coloured wire upon lace or other fabrics, for the purpose of ornamenting the same, or for running on and stiffening caps, cap-borders, or for other similar purposes."

On his petition, recorded in the Office of the Commissioners on the 20th day of September, 1859.

2250. To THOMAS COOK, of Coburg Road, Old Kent Road, in the county of Surrey, Machinist, for the invention of "Improved tools for making screws."

On his petition, recorded in the Office of the Commissioners on the 4th day of October, 1859.

2258. To ROBERT FISHER, of Westbourne Grove, and CHARLES ASPRAY, of Newton Road, Westbourne Grove, for the invention of "Improvements in photographic stereoscope slides, and in the stereoscopes employed in viewing the same."

On their petition, recorded in the Office of the Commissioners on the 5th day of October, 1859.

2298. To JOSEPH BENTLEY, of Liverpool, in the county of Lancaster, Gun Manufacturer, and HERMAN JAMES SILLEM, of the firm of Fawcett, Preston, and Co., of Liverpool aforesaid, Engineers, for the invention of "Improvements in breech loading fire arms, and the machinery for manufacturing projectiles for small arms."

On their petition, recorded in the Office of the Commissioners on the 10th day of October, 1859.

2340. To JEAN FRANÇOIS CONSCIENCE, of No. 8, St. John Street Road, Clerkenwell, London, in the county of Middlesex, for the invention of "A new and improved process of making bread, and certain machinery connected with it."

On his petition, recorded in the office of the Commissioners on the 14th day of October, 1859.

2356. To MICHAEL HENRY, of 84, Fleet Street, in the city of London, Patent Agent, for the invention of "An apparatus for washing hanks, skeins, threads, and yarns of silk and other fibrous materials."—A communication from abroad by Jean Baptiste Berthand the younger, of 33, Boulevard Saint Martin, Paris, France.

On his petition, recorded in the Office of the Commissioners on the 15th day of October, 1859.

2398. To RICHARD HOBSON, of Leeds, in the county of York, Doctor of Medicine, for the invention of "Improvements in producing ornamental devices in glass or other transparent substances for decorative or other purposes."

On his petition, recorded in the Office of the Commissioners on the 19th day of October, 1859.

2436. To WILLIAM CHARLES DAY, of the Strand, in the county of Middlesex, Military Outfitter, for the invention of "Improvements in stockings and drawers, and other articles of under clothing."

2438. To JAMES MURDOCH NAPIER, of the York Road, Lambeth, Engineer, for the invention of "Improvements in printing machines."

2440. And to HENRY COLUMBUS HURRY, of the city of Worcester, Engineer, for the invention of "Improved apparatus for applying or using magnetism or electro-magnetism as a motive power."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of October, 1859.

2442. To ALEXANDER MCGLASHAN, of Coal Yard, Drury Lane, in the county of Middlesex, Engineer, for the invention of "Improvements in refrigerators for cooling worts and other liquors."

2444. To JEAN JACQUES BOURCART, of Guebwiller, Haut Rhin, France, but now residing in Manchester, in the county of Lancaster, Machinist, for the invention of "Improvements in mules for spinning."

2446. To WILLIAM WEMYSS KENNEDY, of Glasgow, in the county of Lanark, North Britain, Shirt Cutter, for the invention of "Improvements in shirts."

2448. To JOHN WESLEY HACKWORTH, of Priestgate Engine Works, Darlington, Engineer, for the invention of "Improvements in dynamic valve gear, applicable to locomotive marine and other engines."

2450. To JOHN ARMOUR, of Perceton Fire Clay Works, Kilmarnock, North Britain, Manager, for the invention of "Improvements in apparatus for measuring and for regulating supplies of solid and fluid substances in the preparation of mixtures or compounds."

2452. And to RICHARD CHRISTY the younger, of Weston, in the county of Herts, Farmer, for the invention of "Improvements in means or apparatus for securing the closing of doors."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of October, 1859.

2454. To IGNAZIO ZACHERONI, of Liverpool, in the county of Lancaster, Artist, for the invention of "Improvements in electric telegraphic cables for submarine and subterranean uses, and in submerging the same."

2456. To PHILO D. MICKLES, of Syracuse, state of New York, United States of America, for the invention of "An automatic railroad switch."—A communication from Danforth Johnson, a person resident at Chicago, state of Illinois, United States.

2460. To HENRY PHILLIPS, of Penhoe, in the county of Devon, Chemist, and JAMES BANNEHR, of Exeter, in the same county, for the invention of "Improvements in the manufacture of manure."

2462. And to RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improved threads for weaving, and a machine for making the same, which is also applicable to the winding or coating of one thread with another."—A communication from abroad by Alphonse Loiseau, of Bernay, France.

On their several petitions, recorded in the Office of the Commissioners on the 27th day of October, 1859.

2464. To AURELIUS BRUCE MITCHELL, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "A new or improved penholder."

2465. To JOSEPH PLANTIER, of Paris, France, Gentleman, for the invention of "Improvements in brushes and brooms."

2467. To DEÏLE DILLIES, of Roubaix, department du Nord, in the empire of France, Manufacturer, for the invention of "Innovations in weaving looms."

2469. To JAMES FERGUSON COLE, of Devonshire Street, in the county of Middlesex, Watch Maker, for the invention of "Improvements in timekeepers."

2470. And to JEAN JOSEPH BARANOWSKI, of Paris, in the empire of France, Gentleman, for the invention of "Improvements in railway signal apparatuses."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of October, 1859.

2471. To GUSTAVE GHESQUIÈRE, of No. 11, Quai Conti, in the city of Paris, in the empire of France, Gentleman, for the invention of "A process to render gold and silver malleable and ductile."

2473. To SAMUEL CUNLIFFE LISTER, of Manningham, and JAMES WARBURTON, of Addingham, Spinners, for the invention of "Improvements in dyeing silk, cotton, and china grass, and similar vegetable fibre, and in preparing and spinning colored and mixed colored yarns from such fibres."

2474. To CHARLES STANNET, of New Street, Covent Garden, in the county of Middlesex, Boot and Shoe Maker, for the invention of "Improvements in apparatus used in the manufacture of boots and shoes or other coverings for the feet."

2475. And to JOHN STEWART MARGETSON, of Cheapside, in the city of London, for the invention of "Improvements in collars for gentlemen's, ladies', or children's wear."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of October, 1859.

2477. To JAMES ALFRED TURNER, of the city of Manchester, in the county of Lancaster, Paper Manufacturer, for the invention of "Improvements in rendering paper waterproof."

2479. To THOMAS CAUTLEY NEWBY, of Welbeck Street, in the county of Middlesex, Publisher, and JULES ADOLPHE RAINÉ, of Wells Street, Gray's-Inn-Road, in the county of Middlesex, Gentleman, for the invention of "Improvements in portable bedsteads and spring mattresses."

2480. To JOHN INGHAM, of Halifax, in the county of York, Manufacturer, and GEORGE COLLIER, of the same place, Engineer, for the invention of

"Improvements in the manufacture of fabric, of the character of that technically called 'camlet,' also in the winding of yarn employed in the production of such fabric, part of which improvements is applicable to other weavings."

2481. To JOHN BOLTON, of Halifax, in the county of York, Manufacturer, for the invention of "Improvements in means or apparatus for winding thread or yarn on to shuttle bobbins, or pirns, which improvements are also applicable in winding on to other bobbins, or spools, or tubes."

2483. To RICHARD ARCHIBALD BROOMAN, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Certain plastic compositions to be employed for building and decorative purposes, and in lieu of marble, stone, brick, and cement."—A communication from abroad, by Lippmann Schneckenburger and Co., of Paris.

2484. To ROMAN CICHOWSKI, of Linow, in the kingdom of Poland, Landed Proprietor and Agriculturalist, for the invention of "Improvements in ploughs."

2485. To JOSEPH HOLMES, of Pleystowe Capel, in the county of Surrey, Esquire, for the invention of "An improved halter-block for stable purposes."

2487. And to LUDWIG POHL, of the firm of Eduard Posen and Company, of Offenbach, in Germany, Manufacturers, for the invention of "Improvements in fastenings for bags, purses, and similar purposes."

On their several petitions, recorded in the office of the Commissioners on the 31st day of October, 1859.

2488. To CHARLES READ, of Birmingham, in the county of Warwick, Ironmonger, and ISAAC ALFRED READ, of Smethwick, near Birmingham aforesaid, Draughtsman, for the invention of "A new or improved tap or stop cock."

2489. To WILLIAM SPENCE, of No. 50, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "An instrument for taking and registering deep sea soundings."—A communication from abroad by Thomas P. How, of Broadway, New York.

2490. To ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved mode of and apparatus for condensing and cooling vapour and fluids."—A communication from abroad by Ananias Smith, of Niagara Falls, in the United States of America.

2491. To JOSIAH JONES, junior, of Liverpool, for the invention of "Improvements in ship building."

2492. To WILLIAM HENRY PERKIN, of King David Fort, St. George's-in-the-East, for the invention of "Improvements in the manufacture of coloring matters."

2493. And to ROBERT DE BARY, of Finsbury Square, in the county of Middlesex, Engineer, for the invention of "Improvements in machinery for the manufacture of cigars."—A communication from abroad by Julius De Bary, of Offenbach.

On their several petitions, recorded in the Office of the Commissioners on the 1st day of November, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

11th November, 1859.

1192. ANDRÉ PROSPER ROCHETTE, of Brighouse, in the county of York, for an invention of "An improvement in the manufacture of soft soap."—Dated 12th May, 1859.

1214. SCHOFIELD CROWTHER SHEARD, Engineer, of Smethwick, in the county of Stafford, for an invention of "Certain improvements in fire-bars, which bars are applicable to all furnaces where great heat and economy of fuel are required."—Dated 16th May, 1859.

1216. WILLIAM MIDWORTH, of the firm of Messieurs John Midworth and William Midworth, of Newark-upon-Trent, in the county of Nottingham, Engineers, Ironfounders, and Ironmongers, for an invention of "An improved iron for the use of laundries, tailors, or other purposes."—Dated 16th May, 1859.

1224. ALEXANDRE RÉNÉ LANDRE, POLYDORE GRAS, and ANTOINE LOUIS AUGUSTE BOUCHERIE, all of the city of Marseilles, in the empire of France, Merchants, trading under the firm Landre, Gras, and Co., for an invention of "Distilling schist or boghead coal and other minerals for lighting."—Dated 17th May, 1859.

1294. JOHN MALLETT, of Barnstaple, in the county of Devon, Watch Manufacturer, Silversmith, and Jeweller, for an invention of "An improved regulator for watches, portable clocks, and timepieces."—Dated 25th May, 1859.

1870. WILLIAM GREEN, of Kidderminster, WILLIAM FAWCETT, of Wolverley, and FRANCIS BEST FAWCETT, of Wolverley, all in the county of Worcester, Carpet Manufacturers, for an invention of "Improvements in the manufacture of rugs."—Dated 13th August, 1859.

1998. PETER WRIGHT, of Dudley, in the county of Worcester, Manufacturer, for an invention of "An improvement or improvements in the manufacture of anvils."—Dated 2nd September, 1859.

2064. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in the process of and machinery for manufacturing hat bodies."—A communication from abroad by Andrew Campbell, of New York, in the United States of America.—Dated 9th September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 8th November*, 1859, *inclusive.*)

7th November.

2629. WILLIAM PORTER, of No. 9, Lansdowne Villas, Brompton, Middlesex, Civil Engineer, for an invention of "Improvements in the grinding of cements and other substances, and in the construction of millstones for the same."—Dated 8th November, 1856.

8th November.

2639. HENRY BESSEMER, of 4, Queen Street Place, in the city of London, for an invention of "Improvements in the manufacture and treatment of iron, and in the manufacture of steel."—Dated 10th November, 1856.

2645. JAMES SOMERVILLE, of Glasgow, in the county of Lanark, North Britain, Manager, for an invention of "Improvements in weaving."—Dated 10th November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 8th November*, 1859, *inclusive.*)

7th November.

709. GEORGE LUCAS, of 42, Kennedy Street, Manchester, in the county of Lancaster, Engraver, for an invention of "A composition for filling engraved cast or sunk letters, devices, or ornaments, on or in brass, zinc, or other metallic plates."—Dated 11th November, 1852.

721. CALEB BLOOMER, of West Bromwich, in the county of Stafford, for an invention of "Improvements in the manufacture of anchors."—Dated 12th November, 1852.

832. JOHN BEALE, of East Greenwich, in the county of Kent, Engineer, for an invention of "An improved arrangement of steam-engine, and an improved packing to be used therein."—Dated 23rd November, 1852.

8th November.

685. ROBERT KNOWLES, of Chorlton-upon-Medlock, in the county of Lancaster, Mechanic, for an invention of "Certain improvements in boilers and apparatus for generating steam."—Dated 9th November, 1852.

Erratum in Journal of 7th October.

In the List of "Patents on which the Stamp Duty of £50 has been paid," the following title must be cancelled, it having been omitted in error from the previous Quarterly List of Patents become Void by reason of non-payment of said Stamp Duty of £50:—

26th September.

2266. WILLIAM SMITH, of Skinner Street, Snow Hill, in the city of London, and NATHANIEL FORTESCUE TAYLOR, of Stratford, in the county of Essex, Gas Engineers, for an invention of "Improvements in apparatus for measuring gas and other fluids, and in regulating the flow of the same."—Dated 27th September, 1856.

FOREIGN PATENTS.

BELGIUM.*

LIST of PATENTS Delivered on the 3rd November, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 600 of this Journal.)

7886 G. HOYER, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "A licking salt-stone for cattle."—Dated 19th August, 1859.—(Saxon Patent, 19th May, 1859.)

7919. H. E. ROISIN, of Chatelet, for "A machine for grinding grain."—Dated 29th August, 1859.

7996. L. L. BEQUEMIE, represented by A. Hennelle, of Saint Josse-ten-Noode, for "A lift and force pump."—Dated 16th September, 1859.

7997. J. L. JULLION, represented by A. Picard, of Brussels, for "Improvements in the manufacture of gelatin."—Dated 17th September, 1859.

7998. H. WATSON, represented by F. Lebrun, for "An alarum whistle for steam boilers."—Dated 17th September, 1859.

7999. E. H. BENTALL, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in machines for grinding or pulverizing various substances."—Dated 19th September, 1859.—(English Patent, 1st February, 1859.)

8000. A. C. CHAUDESAIGUES, represented by F. Anthoine, of Brussels, for "A so-called 'Isabella tournure petticoat.'"—Dated 19th September, 1859.

8001. L. ENGLER and E. F. KRAUSS, represented by O. Daillencourt, of Brussels, for an imported invention of "An insulator of telegraph wires."—Dated 19th September, 1859.—(French Patent, 15th September, 1859.)

8002. L. DESCHAMPS, of Dour, for "An apparatus for boring mines."—Dated 20th September, 1859.

8003. J. PAQUET, represented by S. Progueaux, of Gilly, for "A game of dominoes."—Dated 20th September, 1859.

8004. J. BROZE, of Verviers, for "Improvements in looms."—Dated 21st September, 1859.

8005. A. L. SCHLOSSER, of Brussels, a Patent of Improvement for "A system of cylinders for ironing linen."—Dated 22nd September, 1859.—(Original Patent, 27th September, 1855.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office, where also translated Indexes may be consulted.

8006. V. and Ch. Michel Brothers, of Molenbeek St. Jean, for "An expeditious mode of manufacturing velvet warps, called 'chenille.'"—Dated 22nd September, 1859.

8007. L. J. Vandecasteele, of Bruges, for "A mode of preventing accidents on railways, occasioned by the closing of the doors of the carriages."—Dated 22nd September, 1859.

8008. W. Petrie, represented by A. Cossée, of Marchienne-au-Pont, a Patent of Improvement for "Manufacture of sulphuric acid."—Dated 21st September, 1859.—(Original Patent, 12th March, 1857.)

8009. J. Dartois, of Fléron, for "A ventilator with an alternate movement, and with a continuous air current."—Dated 21st September, 1859.

8010. H. Thomas, of Brussels, for "A furnace with a reversed fire, for rolling-mills and other works."—Dated 21st September, 1859.

8011. J. Lee, represented by Th. Boutillier, of Schaerbeek, for an imported invention of "Improvements in the manufacture of crank axles of steam-engines."—Dated 21st September, 1859.—(English Patent, 7th February, 1859.)

8012. A. Billotet, represented by Th. Boutillier, of Schaerbeek, for an imported invention of "A pendulum regulator, applicable to screw steamers."—Dated 21st September, 1859.—(French Patent, 8th May, 1858.)

8013. G. Ermen, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in machines for finishing thread."—Dated 21st September, 1859.—(French Patent, 13th September, 1859.)

8014. H. Winter, represented by A. Crooy, of Brussels, for an imported invention of "An apparatus for raising sacks and other weights."—Dated 21st September, 1859.—(English Patent, 15th September, 1859.)

8015. G. D. Vandenhaute, of Brussels, for "Improvements in gasmeters."—Dated 20th September, 1859.

8016. Th. Birde, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of castors for furniture."—Dated 20th September, 1859.—(English Patent, 26th August, 1859.)

8017. H. Dombret, H. Dugnolle, and H. Potez, represented by R. S. Kirkpatrick, of Ixelles, for "A machine for cleaning and preparing all kinds of filaments."—Dated 20th September, 1859.—(French Patent, 7th July, 1859.)

8018. A. Van Langenhove, represented by V. Lefebvre, of Alost, a Patent of Improvement for "Applying colza straw to the manufacture of paper-pulp."—Dated 20th September, 1859.—(Original Patent, 13th August, 1859.)

8019. P. Reich, of Ghent, for "A loom for weaving figured stuffs, being a substitute for jacquart looms."—Dated 21st September, 1859.

8020. L. J. Vandecasteele, of Bruges, for "Increasing the motive power of locomotives."—Dated 23rd September, 1859.

8021. E. Laurent, of Dinant, for "Vats for breweries."—Dated 24th September, 1859.

8022. Ch. Gondeau, of Alost, a Patent of Improvement for "A single and double action apparatus applicable to looms."—Dated 24th September, 1859.—(Original Patent, 4th June, 1858.)

8023. A. Brison, of Petit-Roeulx, for "A machine for compressing rough iron balls."—Dated 24th September, 1859.

8024. O. A. David, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for conglomerating coal dust and other substances."—Dated 26th September, 1859.

8025. J. Harrison, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the construction of steam-boilers."—Dated 26th September, 1859.—(French Patent, 13th September, 1859.)

8026. M. Schloss, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in water-closets."—Dated 26th September, 1859.—(French Patent, 20th September, 1859.)

8027. F. Durand and H. A. Pradel, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in jacquart looms."—Dated 26th September, 1859.—(French Patent, 20th September, 1859.)

8028. F. Heindryckx, of Brussels, a Patent of Improvement for "A system of railway chairs."—Dated 27th September, 1859.—(Original Patent, 12th September, 1859.)

8029. L. Lemesre, of Tournai, for an imported invention of "A system of self-acting winding machines."—Dated 28th September, 1859.—(French Patent, 15th July, 1859.)

8030. J. Bataille, represented by H. Biebuyck, of Brussels, for an imported invention of "Turntables for railways."—Dated 28th September, 1859.—(French Patent, 23rd April, 1858.)

8031. J. E. Durand, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of paper from small poppy."—Dated 28th September, 1859.—(French Patent, 19th July, 1859.)

8032. J. M. Rabier, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of bricks, flagstones, tiles, and other ceramic products."—Dated 28th September, 1859.—(French Patent, 28th July, 1859.)

8033. J. F. Harmegnies, of Dour, for "Preventing the shaking of ropes in working mines."—Dated 26th September, 1859.

8035. L. Réquilé Delhey and Son, represeuted by D. Tassin, of Liége, for "A system of balances with variable arms."—Dated 24th September, 1859.

8036. The Vieille Montagne Company, represented by H. Renard, of Angleur, for "Bleaching raw tissues and paper pulp."—Dated 30th September, 1859.

8037. V. Moreau, of Liége, a Patent of Improvement for "A calorifere stove with tubular fireplaces for cooking food."—Dated 1st October, 1859.—(Original Patent, 18th February, 1857.)

8038. J. Huytens of Ghent, for "A machine for cleaning, boring, and pressing pickers (taquets)."—Dated 30th September, 1859.

8039. A. Légé, represented by J. Piddington, of Brussels, a Patent of Improvement for "Preserving, colouring, and drying timber."—Dated 30th September,1859.—(Original Patent, 7th February, 1859.)

8040. J. Leigh, represented by R. Culliford, of Brussels, for an imported invention of "Improvements in purifying coal gas."—Dated 30th September, 1859.—(English Patent, 5th March, 1859.)

8041. J. Dulait, of Charleroi, a Patent of Improvement for "A system of blast engines for blast furnaces."—Dated 3rd October, 1859.—(Original Patent, 28th January, 1858.)

8042. Th. Fouqueré, represented by X. Raclot, of Brussels, for "Applying photography to lace, gimps, embroideries, &c."—Dated 1st October, 1859.

8043. Ch. de Clippele d'Hem, represented by D. de Vos Verraert, of Brussels, a Patent of Improvement for "A process for soldering iron with wood, leather, &c."—Dated 1st October, 1859.—(Original Patent, 26th June, 1857.)

8044. M. Lejeune, of Liége, for "A revolving double gun."—Dated 3rd October, 1859.

8045. C. de Longuinoff, of Liége, for "An auger of mines."—Dated 4th October, 1859.

8046. A. Dean, of Hensy, for "An apparatus for oiling wool, applicable to carding machines.'—Dated 5th October, 1859.

8047. A. Demaret, of Soignies, a Patent of Improvement for "A rotary steam engine."—Dated 5th October, 1859.—(Original Patent, 4th August, 1859.)

8048. F. C. Knowles, of Namur, for an imported invention of "Improvements in the manufacture of iron and steel, and in purifying cast iron."—Dated 3rd October, 1859.—(English Patent, 7th July, 1859.)

8049. V. Carlier, of Ixelles, for "A new mode of applying horsehair to the manufacture of a stuff for making sacks."—Dated 3rd October, 1859.

8050. C. Duplomb, represented by A. Picard, of Brussels, for an imported invention of "A press for finishing stuffs."—Dated 4th October, 1859.

8051. J. L. Baudelot, represented by A. Picard, of Brussels, for "Improvements in freezing apparatus."—Dated 4th October, 1859.

8052. A. Courtois, represented by A. Picard, of Brussels, for an imported invention of "A kiln for burning lime, plaster, and other similar products."—Dated 4th October, 1859.—(French Patent, 12th November, 1855.)

8053. E. A. Lebourgeois, represented by A. Picard, of Brussels, for an imported invention of "A machine for pricking plates for printing tissues, &c."—Dated 4th October, 1859.—(French Patent, 11th August, 1859.)

8054. C. Gabriel, of Brussels, for "Improvements in the manufacture of pasteboard."—Dated 4th October, 1859.

8056. G. Horner, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in machines and processes for heckling flax, hemp, and other filamentous substances."—Dated 5th October, 1859.—(American Patent, 28th February, 1859.)

8057. J. B. Carlier, represented by O. Daillencourt, of Brussels, for "Manufacture of hair tissues used for distilling oil and other oil seeds."—Dated 5th October, 1859.

8058. A. Sauvage, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in steam engines."—Dated 6th October, 1859.—(French Patent, 12th November, 1859.)

8059. J. Villet-Collignon and L. George, represented by O. Daillencourt, of Brussels, for an imported invention of "A system of composing type, called 'Breviotypie,' and being applicable to all languages."—Dated 6th October, 1859.—(French Patent, 19th September, 1859.)

8061. F. Malfait, of Meulebeke, for "Modifications in Jacquart looms."—Dated 6th October, 1859.

8062. L. Morauw, of Ghent, for "Improvements in machines for spinning flax, hemp, and oakum."——Dated 7th October, 1859.

8063. L. A. Le Paige, represented by H. Biebuyck, of Brussels, for "A process for purifying certain kinds of grease and oil, and using the same for the manufacture of candles, soap, &c."—Dated 7th October, 1859.

8064. J. B. Becelaere, of St. Josse-ten-Noode, for "A machine for obtaining guilloshee mouldings of wood."—Dated 8th October, 1859.

8065. J. Kershaw, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Apparatus for weaving."—Dated 8th October, 1859.—(Original Patent, 30th April, 1859.)

8066. F. Ridaura-y-Abad, represented by H. Biebuyck, of Brussels, for an imported invention for "Cigaret paper."—Dated 8th October, 1859.—(French Patent, 18th February, 1859.)

8067. M. J. Coston, represented by Eug. Guillery, of Molenbeek St. Jean, for "Improvements in the construction and use of fireworks as signals."—Dated 8th October, 1859.

8068. V. A. Prou, represented by X. Raclot, of Brussels, a Patent of Improvement for "A hydro-atmospheric lever, applicable to railroads."—Dated 8th October, 1859.—(Original Patent, 12th March, 1859.)

8069. A. Bodart, of Brussels, for "An apparatus and process for manufacturing gas by means of rich tar or other substances containing much carburet."—Dated 8th October, 1859.

8070. A. Deru, of Hensy, for "A system of oiling wool applicable to cards."—Dated 10th October, 1859.

8071. Steven Brothers, of Liége, for "A system of jets d'eau with changing figures."—Dated 11th October, 1859.

8072. A. Hubart and V. Cantillon, of Liége, for "Manufacture of glass or porcelain casks."—Dated 8th October, 1859.

8073. D. Baligant, of Brussels, for "A continuous draught apparatus for chimneys."—Dated 10th October, 1859.

8074. A. Halbleib, of Brussels, for "A system of ironwork for blinds."—Dated 10th October, 1859.

8075. Carmier and Masson, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of axles applicable to all kinds of carriages."—Dated 10th October, 1859.

8076. C. B. Lehodey, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of inkstands."—Dated 10th October, 1859.—(French Patent, 6th October, 1859.)

8077. J. Rousselot and Co., represented by H. Biebuyck, of Brussels, for an imported invention of "An electromotive apparatus."—Dated 10th October, 1859.—(French Patent, 6th October, 1859.)

8078. J. De Lihatcheff, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of casks, tuns, &c."—Dated 10th October, 1859.

8079. H. Desplas, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of transmitting alternate motion applicable to machines for washing wool."—Dated 10th October, 1859.—(French Patent, 19th June, 1859.)

8080. P. Baudet, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of poniard-bayonets applicable to fire-arms."—Dated 10th October, 1859.—(French Patent, 1st October, 1859.)

8081. Dalifol and Co., represented by H. Biebuyck, of Brussels, for "Improvements in apparatus for using steam a second time."—Dated 10th October, 1859.

8082. Viney, Sommer, and Hamm, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Improvements in smoking-pipes, cigar-cases, &c."—Dated 10th August, 1859.—(French Patent, 16th August, 1859.)

8083. Viney, Sommer, and Hamm, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "Improvements in cigar-cases."—Dated 10th October, 1859.—(French Patent, 16th September, 1859.)

8084. J. Lagosse and Son, and F. Quentin, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of paper."—Dated 10th October, 1859.—(French Patent, 24th September, 1859.)

8085. V. Delperdange, of Schaerbeek, a Patent of Improvement for "Lamps with a superior reservoir."—Dated 10th October, 1859.—(Original Patent, 2nd July, 1859.)

8086. P. J. Fontaine, of Peruwelz, for an imported invention of "A parachute for mines."—Dated 11th October, 1859.—(French Patent, 14th March, 1859.)

8087. F. Michaux and Co., of Mons, for "A safety lamp for miners."—Dated 11th October, 1859.

8088. F. Michaux and Co., of Mons, for "A metrical counting log for measuring the speed of vessels."—Dated 11th October, 1859.

8089. S. J. Decroupet, of Beyne, Hensay, for "A system of jacks for mines."—Dated 12th October, 1859.

8090. B. M. Morillon, represented by C. Wenseleers, of Brussels, for an imported invention of "A system of pumps."—Dated 11th October, 1859.—(French Patent, 31st May, 1858.)

8091. Echard, Choumara, and Co., represented by C. Wenseleers, of Brussels, for an imported invention of "Improvements in agricultural implements."—Dated 11th October, 1859.—(French Patent, 26th December, 1855.)

8092. L. H. Rousseau, represented by O. Daillencourt, of Brussels, for an imported invention of "Machines worked by means of regenerated steam."—Dated 11th October, 1859.—(French Patent, 12th March, 1859.)

8093. De Dietrich and Co., represented by A. Anoul, of Ixelles, for an imported invention of "A prohibition railway disc."—Dated 11th October, 1859.—(Limonze's French Patent, 16th November, 1857.)

8094. A. Vanderjonckheydt, of Antwerp, for "A system of binding music-books."—Dated 12th October, 1859.

8095. J. Lambotte, of Auvelais, for "Manufacture of sulphate of soda and muriatic acid."—Dated 12th October, 1859.

8096. Gourmont Brothers, of Dinant, a Patent of Improvement for "A system of boilers for breweries."—Dated 15th October, 1859.—(Original Patent, 21st April, 1859.)

8097. H. J. Lambert, of Verviers, for "Horse-shoes for the ice."—Dated 15th October, 1859.

8098. A. Pollet and Son, of Tournai, for "Manufacture of soap."—Dated 15th October, 1859.

8099. E. Myers and H. Petit, of Saint Josse-ten-Noude, for "A gas meter, with a steady quantity of water."—Dated 12th October, 1859.

8100. G. Lemmen and F. H. Knickenberg, of Saint Josse-ten-Noude, for "A system of steam-towing."—Dated 12th October, 1859.

8101. J. L. Stevens, represented by Anoul, of Ixelles, for an imported invention of "Improvements in grates of fire-places of locomotive, marine, and other engines."—Dated 12th October, 1859.—(English Patent, 13th April, 1859.)

8102. A. Paget, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in apparatus for manufacturing open-worked tissues."—Dated 12th October, 1859.—(English Patent, 2nd April, 1859.)

8103. M. Mennig, represented by H. Biebuyck, of Brussels, for "A machine for compressing tubes of cartridges for fire-arms."—(Dated 14th October, 1859.

8104. F. Nivelle, represented by O. Daillencourt, of Brussels, a Patent of Improvement for "Sewing machines."—Dated 14th October, 1859.—(Original Patent, 15th September, 1859.)

8105. A. Dessart, of Limburg, for "A process for sizing warps previous to weaving."—Dated 17th October, 1859.

8106. P. Van Hercke, of Ostende, a Patent of Improvement for "An apparatus for preventing the back flow of smoke in chimneys."—Dated 18th October, 1859.—(Original Patent, 8th November, 1858.)

8107. Vermeire and Co., of Brussels, for "Rendering miners' cases or platforms flexible."—Dated 17th October, 1859.

8108. Vermeire and Co., of Brussels, for "Improvements in apparatus for working mines."—Dated 17th October, 1859.

8109. E. R. Handcock, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in steam engines and other apparatus for obtaining motive power."—Dated 17th October, 1859.—(English Patent, 8th April, 1859.)

8110. Féraud, Laureau, and Richard, represented by H. Biebuyck, of Brussels, for an imported invention of "A process for preserving organic substances."—Dated 17th October, 1859. —(French Patent, 31st August, 1859.

8111. F. Waefelaer, of Brussels, for an imported invention of "A cock for distributing water."—Dated 17th October, 1859.—(Thomas Kennedy's English Patent, 17th March, 1857.)

8112. L. Duhent, of Brussels, for "A threefold system of loading guns by the breech."—Dated 18th October, 1859.

8113. J. Eccles, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in machines for moulding bricks, tiles, and similar products."—Dated 18th October, 1859.—(French Patent, 8th October, 1859.)

8114. Everaert Brothers, of Brussels, for "A system of razors."—Dated 18th October, 1859.

8115. A. A. P. Mallet, represented by O. Daillencourt, of Brussels, a Patent of Improvement for "Utilizing heavy oils and naphthaline obtained by distilling coal and other tar."—Dated 18th October, 1859.—(Original Patent, 22nd October, 1858.)

8116. R. Lermusiaux, of Jemmapes, for "A system of sliding, being a substitute for slide blocks in horizontal steam engines."—Dated 18th October, 1859.

8117. J. Dumont, of Saint Josse-ten-Noode, for "A system for preserving the lustre and freshness of manufactured chocolate."—Dated 19th October, 1859.

8118. J. Brière, represented by A. Depuichault, of Schaerbeek, for "A system of scales with self-acting levers."—Dated 19th October, 1859.

8119. S. S. Hogle, represented by A. Crooy, of Brussels, for an imported invention of "Harrows with rotary motion."—Dated 19th October, 1859. —(American Patent, 17th March, 1857.)

8120. C. Mertens, of Brussels, for "A kind of fastenings, being a substitute for braces."—Dated 19th October, 1859.

8121. J. C. Goossens, represented by H. Biebuyck, of Brussels, for "A kind of printed and embroidered tissue."—Dated 19th October. 1859.

8123. L. Nagant, of Liége, for "A system of revolving pistols and rifles."—Dated 19th October, 1859.

8124. J. B. Geens-Persiaux, represented by D. Tassin, of Liége, for "Varnish for metals."—Dated 19th October, 1859.

8125. E. L. Montefiore, of Val-Benoît, for "Manufacture of zinc by a wet process."—Dated 20th October, 1859.

8126. Ch. Leyherr, represented by Alb. Picard, of Brussels, for an imported invention of "A continuous self-actor."—Dated 20th October, 1859,—(French Patent, 20th August, 1858.)

8127. J. Moll, of Brussels, a Patent of Improvement for "A disinfecting powder."—Dated 20th October, 1859.—(Original French Patent, 25th February, 1856.)

8128. L. Beckers, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "An apparatus for exhibiting stereoscopic paintings."—Dated 20th October, 1859. — (Original Patent, 1st December, 1857.)

8129. J. Aspinall, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in apparatus for evaporating liquids in a vacuum."—Dated 20th October, 1859.—(English Patent, 7th March, 1859.)

8130. R. W. Sievier, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for promoting the combustion of fuel." —Dated 20th October, 1859.—(French Patent, 7th October, 1859.)

8131. H. W. Ward, represented by F. Anthoine, of Brussels, for an imported invention of "A system of turn-tables of railways."—Dated 20th October, 1859.—(French Patent, 7th October, 1859.)

8132. H. W. Ward, represented by F. Anthoine, of Brussels, for an imported invention of "A system of wheels of locomotives and other railway carriages."—Dated 20th October, 1859.—(French Patent, 1st October, 1859.)

8133. L. Vernay, represented by A. Crooy, of Brussels, for an imported invention of "An apparatus for laying casks, sacks, and stones one above the other."—Dated 20th October, 1859.—(French Patent, 27th July, 1859.)

8134. G. C. Delettrez, represented by A. Crooy, of Brussels, for an imported invention of "A kind of mittens with ruffles."—Dated 20th October, 1859.—(French Patent, 3rd October, 1859.)

8135. J. Norris, junr., represented by J. Sainthill, of Brussels, a Patent of Improvement for "A machine for manufacturing nails by a hot process."—Dated 21st October, 1859.—(Original Patent, 15th July, 1856.)

8136. Mrs. De Morcoux, represented by L. Lebrun, of Brussels, for "A kind of pen."—Dated 21st October, 1859.

8137. J. Letoret, of Jemmapes, for "A system of distilling coal and other substances."—Dated 21st October, 1859.

8138. J. Delhove, of Maffles, for "A kind of plough."—Dated 22nd October, 1859.

8139. Aug. Lefebvre, of Braine-le-Comte, for "A system of distilling apparatus."—Dated 17th October, 1859.

PRUSSIA.*

List of Patents Delivered and Annulled between the 1st September and 31st October, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. Patents Delivered.

1. Friederich Georg Wieck, of Leipzig, for an imported invention of "An apparatus for boring wells, &c."—5 years. — Dated 9th September, 1859.

2. Becherer and Kesseler, of Greifswald, for "A press with a closed head-piece for making hollow bricks."—5 years.—Dated 17th September, 1859.

3. H. Egells, of Berlin, for "A rotary expansion steam engine."—5 years.—Dated 21st September, 1859.

4. Friedrich Adolph Schmidt, of Cologne, for "An improved mode of reverberating the sound in trumpets provided with valves."—5 years.—Dated 25th September, 1859.

5. A. F. Sicker and Adolph Ferdinand Arndt, of Grossenhayn, Saxony, for "A power loom."—5 years.—Dated 6th October, 1859.

6. Baldamus and Grüne, of Charlottenburg, for "A peculiar apparatus for obtaining lighting-gas."—5 years.—Dated 9th October, 1859.

7. J. H. F. Prillwitz, of Berlin, for an imported invention of "An apparatus for loading percussion fire-arms by the breech."—5 years.—Dated 14th October, 1859.

8. Albert Fesca, of Berlin, for "A centrifugal apparatus for extracting sugar juice from the residue of beetroot."— 5 years. — Dated 23rd October, 1859.

9. J. H. F. Prillwitz, of Berlin, for "A machine for moulding candles."—5 years. — Dated 23rd October, 1859.

10. J. H. F. Prillwitz, of Berlin, for an imported invention of "A regulator for machines worked by means of steam or other fluids."—5 years.—Dated 24th October, 1859.

11. Gottlob Seyrig, of Berlin, for "A break for centrifugal machines."—5 years. — Dated 26th October, 1859.

12. Eugen Langen, of Cologne, for "Grates laid one above the other."—5 years. — Dated 27th October, 1859.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

2. Patents Annulled.

1. Albert Behl, of Magdeburg, for "A sewing machine."—Dated 15th June, 1858; annulled 2nd September, 1859.

2. Dr. H. Schwarz, of Breslau, for "Manufacture of starch-sugar."—Dated 1st September, 1858; annulled 10th September, 1859.

3. J. H. F. Prillwitz, of Berlin, for an imported invention of "A new grinding machine."—Dated 16th September, 1858; annulled 14th October 1859.

4. Heinrich Beinhauer, of Deutz, for "A machine for draining mines."—Dated 27th August, 1858; annulled 26th October, 1859.

COLONIAL PATENTS.

VICTORIA.

List of Letters Patent issued during the Year 1858.

(Continued from No. 508.—See page 1288 of Journal for 1858.)

Note.—The consecutive number shows how many Patents have been issued in the colony; and the chronological number the order in which the Specifications have been lodged.

117. Frederick Marlborough Moore, of Geelong, in the colony of Victoria, for an invention intituled "Improvements in machinery for boring, breaking, and cutting stone."—Dated 12th June, 1858.—Chronological No. 116.

118. James Farquharson Mackenzie and Robert Harper, of Lygon Street, North Melbourne, in the colony of Victoria, for an invention intituled "Improvements in roasting coffee and other seeds and roots; also in drying grain."—Dated 23rd September, 1858.—Chron. No. 163.

119. John Danks, Samuel Danks, and Thomas Danks, of Emerald Hill, in the colony of Victoria, for an invention "For the making of an artificial fuel."— Dated 30th September, 1858.—Chron. No. 166.

120. John Hartham and Ezra Hartham, both of Timbersbrook, near Congleton, in the county of Chester, England, for an invention intituled "An improved engine for obtaining motive power."—Dated 14th October, 1858.—Chron. No. 171.

121. Bernard Josephson, of Melbourne, in the colony of Victoria, for an invention for "The manufacture of gas."—Dated 15th October, 1858.—Chron. No. 172.

122. John Thomas, of Great Lonsdale Street, in the city of Melbourne, for an invention for "Circular and octagon billiard-bagatelle tables." — Dated 26th October, 1858.—Chron. No. 175.

123. Daniel Peterson and John Lidgate, of Melbourne, in the colony of Victoria, for an inven-

tion intituled "Improvements in applying the waste heat arising from the manufacture of coke." —Dated 10th September, 1858.—Chron. No. 152.

124. William Croker Cornish and John Vans Agnew Bruce, of Melbourne, in the colony of Victoria, for an invention intituled "Improvements in machinery for breaking stones."—Dated 18th September, 1858.—Chron. No. 1858.

125. Arthur Kinder, of the city of Worcester, England, for an invention intituled "Improvements in cutting irregular forms, and in the machinery or apparatus employed therein or connected therewith." — Dated 28th May, 1858. — Chron. No. 107.

List of Letters Patent issued during the year 1859.

126. John Hackett, of the city of Melbourne, in the colony of Victoria, for an invention of "An improvement in certain descriptions of carriages." —Dated 15th June, 1858.—Chron. No. 119.

127. James Hart, of Melbourne, in the colony of Victoria, for an invention intituled "Improvements in working stamps for stamping ores."—Dated 19th August, 1858.—Chron. No. 140.

128. James Foot Dow, of Melbourne, in the colony of Victoria, for an invention intituled "An improvement in the manufacture of shaking tables for dressing minerals."—Dated 14th May, 1858.—Chron. No. 103.

129. Edward Smith, of Prahran, in the county of Bourke, for an invention intituled "Improvements in obtaining gold from quartz."—Dated 23rd June, 1858.—Chron. No. 123.

130. John Kane Smyth, of Melbourne, in the colony of Victoria, for an invention intituled "Improvements in machinery for crushing quartz and for amalgamating."—Dated 29th October, 1858.—Chron. No. 177.

131. Charles Knight, of Russell Street, in the city of Melbourne, Victoria, for an invention intituled "A method of obtaining mercury and metallic substances from the human body."—Dated 24th November, 1858.—Chron. No. 178.

132. William Hilton, of Collingwood, in the county of Bourke, for an invention of "A stone and quartz-breaking machine."—Dated 30th August, 1858.—Chron. No. 47.

133. Richard Manuel, of Collingwood, in the county of Bourke, Victoria, for an invention intituled "Improvements in the construction of bridges."—Dated 6th September, 1858.—Chron. No. 149.

134. Richard Barrett and Henry Costin, both of Ballarat, in the colony of Victoria, for an invention of "Certain improvements in machinery for washing auriferous earths, parts of which are applicable to other useful purposes."—Dated 1st October, 1858.—Chron. No. 167.

135. Richard Fregaskis, of Tarrengower, in the colony of Victoria, for an invention of "Improvements in machinery for washing and grinding earthy matters containing gold and in amalgamation." — Dated 11th October, 1858. — Chron. No. 170.

136. Frederick William Nicholls, of Melbourne, in the county of Bourke, for an invention "For using water of a high pressure for a motion-giving power to machinery, called 'the water engine.'" — Dated 19th October, 1859.—Chron. No. 173.

137. John Thomas Saunders, of Sandhurst, in the colony of Victoria, for an invention intituled "Improvements in the manufacture of gas, and in apparatus for making gas from an oil from resin, and other oils and fatty matters."—Dated 26th October, 1858.—Chron. No. 174.

138. John Goyne, of Epsom, near Sandhurst, in the colony of Victoria, for an invention of "An improvement in manufacturing gratings used when stamping or crushing quartz or other minerals."—Dated 24th November, 1858.—Chron. No. 179.

139. John Stephen, of the city of Melbourne, Victoria, for an invention for "The effectual, speedy, and economical cooling of worts with ease and despatch."—Dated 21st December, 1858.—Chron. No. 183.

140. John Robert Richards the elder, of Little Collins Street West, Melbourne, Victoria, for an invention of "Improvements in apparatus for raising water."—Dated 29th December, 1858. —Chron. No. 186.

141. Robert McGavin, of the Clyde Galvanizing Works, Glasgow, N.B., Engineer, for an invention intituled "Improvements in manufacturing metal roofing plates."—Dated 9th February, 1859.—Chron. No. 197.

142. Thomas Tennant, of the city of Edinburgh, North Britain, for an invention intituled "Improvements in machinery or apparatus for crushing or pulverizing minerals."— Dated 9th February, 1859.—Chron. No. 198.

143. Angus Kennedy, of Sandhurst, in the colony of Victoria, for an invention intituled "Certain arrangements of machinery for treating earthy matters to obtain gold therefrom."—Dated 29th September, 1858.—Chron. No. 165.

144. John Robert Richards the elder, of Collin's Street West, in the city of Melbourne, for an invention intituled "Certain new and useful improvements in machines for forging, specially intended for forging nails, also applied to forge other articles."—Dated 26th January, 1859.—Chron. No. 195.

145. John Hart, of Adelaide, in the province of South Australia, for an invention intituled "Improvements in the manufacture of gas when oils or fatty matters are used, and in applying the refuse obtained in such manufacture to a useful purpose." —Dated 29th December, 1858.—Chron. No. 187.

146. Richard Jenkin Polglace, of Bourke Street West, in the city of Melbourne, for an invention intituled "Improvements in machinery for breaking stones."—Dated 30th August, 1858.—Chron. No. 146.

147. Frederick Courtin, of Maldon, in the colony of Victoria, for an invention intituled "Improvements in machinery for puddling and washing earthy matters to obtain gold therefrom."—Dated 21st September, 1858.—Chron. No. 160.

148. John Robert Richards and Alfred Grimshaw, both of the city of Melbourne, for an invention intituled "Improvements in burning gas."—Dated 23rd February, 1859.—Chron. No. 199.

149. William Elsdon, of Sandridge, in the county of Bourke, Victoria, for an invention intituled "A self-acting rotary platform, with a self-acting latch for railway purposes."—Dated 8th April, 1859.—Chron. No. 210.

150. Willis Humiston, of the city of Troy, state of New York, U.S. of America, for an invention intituled "Certain improvements in machinery for making mould candles."—Dated 3rd May, 1859.—Chron. No. 216.

151. George Richard Rowe Vivian, of Castlemaine, in the county of Talbot, Victoria, for an invention intituled "An improvement in working stamps used for crushing minerals."—Dated 3rd March, 1859.—Chron. No. 202.

152. David Wilkinson, of Melbourne, in the colony of Victoria, for an invention intituled "Improvements in obtaining gold and other metals from quartz."—Dated 7th June, 1858.—Chron. No. 113.

153. Stephen Richards and John Richards, both of Ballarat, for an invention intituled "Improvements in the manufacture of cradles to obtain gold from earthy matters, to be termed, 'The Tom sluicing cradle.'"—Dated 7th August, 1858.—Chron. No. 134.

154. Thomas Mathews, of St. Kilda, in the county of Bourke, for an invention intituled "An improvement in certain descriptions of mangles."—Dated 9th August, 1858.—Chron. No. 137.

155. Robert Savage, of South Melbourne, in the county of Bourke, for an invention intituled "Improvements in the mode of puddling and washing earth containing gold or other metals or minerals."—Dated 19th August, 1858.—Chron. No. 139.

156. Benjamin Hawkins Dods, of Green Street, in the city of Melbourne, Victoria, for an invention intituled "Improvements in pumps and cocks part of which improvements are appplicable to hydrants and other apparatus where valves are used."—Dated 22nd December, 1858.—Chron. No. 184.

157. Enoch Chambers, of Little Collins Street, in the city of Melbourne, for an invention intituled "A new method of bending and shaping iron and other metals, and compressing wood for railway and other purposes."—Dated 29th December, 1859.—Chron. No. 188.

158. Edward Henderson and John Frederick Droop, both of the city of Melbourne, for an invention intituled "Improvements in machinery for stamping minerals."—Dated 7th March, 1859.—Chron. No. 203.

159. William Stevens and George Hosking, both of Epsom, near Sandhurst, in the colony of Victoria, for an invention intituled "Improvements in the construction and working of harrows for puddling or reducing clay or other earthy matters."—Dated 9th May, 1859.—Chron. No. 219.

160. Henry Elder, of Bourke Street, of the city of Melbourne, Victoria, for an invention intituled "Certain improvements in working clocks."—Dated 6th June, 1859.—Chron. No. 225.

161. William Ogden Porter, of Melbourne, in the colony of Victoria, for an invention intituled "Improvements in the construction of shaking-tables for dressing minerals."—Dated 21st September, 1858.—Chron. No. 161.

162. George Jones, of Mercer Street, Geelong, in the county of Grant, Victoria, for an invention intituled "Improvements in the manufacture of boots, shoes, goloshes, and overalls."—Dated 3rd May, 1859.—Chron. No. 215.

Registrar General's Office, Melbourne,
16th September, 1859.

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Notices to Proceed.

NOTICE is hereby given, that

1591. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given notice at the office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "A cementing powder or mixture and process for cementing, converting, refining, strengthening, and steelifying iron."—A communication from abroad by Job Johnson, of East Brooklyn, Long Island, in the state of New York.

As set forth in his petition, recorded in the said office on the 4th day of July, 1859.

1606. And SAMPSON LLOYD, of Wednesbury, Staffordshire, has given the like notice in respect of the invention of "Improvements in the manufacture of cast steel tyres."

1608. And BENJAMIN SEED, of Keighley, Grease Manufacturer, and THOMAS STEEL, of Bradford, Foreman, both in the county of York, have given the like notice in respect of the invention of "Improvements in apparatus employed in the treatment of soap-suds or other saponaceous or oily matters."

1609. And JOHN THOMAS EDMONDS, of Prestwood, Great Missenden, in the county of Bucks, Ironfounder, has given the like notice in respect of the invention of "Improvements in winnowing or corn cleaning machines, parts of which are applicable for other screening or sifting purposes."

As set forth in their respective petitions, all recorded in the said office on the 6th day of July, 1859.

1615. And Sir FRANCIS CHARLES KNOWLES, of Lovell Hill, in the county of Berks, Baronet, has given the like notice in respect of the invention of "Improvements in making iron castings."

1616. And JOHN SMITH, of Norton Street, Cherry Square, New Radford, in the county of Nottingham, Lace Manufacturer, has given the like notice in respect of the invention of "Improvements in propelling ships and other vessels."

As set forth in their respective petitions, both recorded in the said office on the 7th day of July, 1859.

1619. And GEORGE ELLIS, of No. 4, Collier Street, Pentonville, in the county of Middlesex, Merchant, has given the like notice in respect of the invention of "The improvement of muffs, to be called 'the patent reticule travelling muff.'"

1623. And JOSEPH GIBBS, of Brentford, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of brushes, brooms, coverings for floors, mats, scrapers, and other scraping and rubbing surfaces."

1629. And WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in ships' capstans and riding bits."

1630. And HENRY BRINSMEAD and JEREMIAH LAWRENCE, of Ipswich, have given the like notice in respect of the invention of "Rotatory screens."

1631. And JOHN TAYLOR, of Roupell Park, Streatham Hill, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the construction of walls to prevent damp from rising, and also in tiles to be used for this purpose in building walls."

1632. And THOMAS DUPPA DUPPA, of Longville, Wistanton, Shropshire, has given the like notice in respect of the invention of "Improvements in carpenters' benches."

1634. And WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural Implement Maker, has given the like notice in respect of the invention of "Improvements in machines for making and collecting hay, and for cutting thistles and weeds, which improvements, in whole or

in part, are applicable to other agricultural implements where teeth or tines are used."

1635. And WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural Implement Maker, has given the like notice in respect of the invention of "Improvements in clod crushers and land and garden rollers."

As set forth in their respective petitions, all recorded in the said office on the 8th day of July, 1859.

1642. And JOHN SMITH, of Bradford, in the county of York, Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for heating and cooling water."

As set forth in his petition, recorded in the said office on the 9th day of July, 1859.

1644. And ROBERT CLEGG, of Islington, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in machines for cutting wood and metal, and in the means of fixing saws thereto."—A communication from abroad by Felix Crampe, of No. 107, Rue de Vangirard, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 11th day of July, 1859.

1653. And CAMILLE JOSEPH PROAL, of 4, South Street, Finsbury, London, Gentleman, has given the like notice in respect of the invention of "The application of photographic impressions or pictures upon fabrics or tissues for rendering such fabrics or tissues applicable to various useful purposes."—A communication from abroad by Jules Bernard, of Paris, France.

As set forth in his petition, recorded in the said office on the 12th day of July, 1859.

1656. And WILLIAM AUGUSTUS MUNN, of Throwley House, near Feversham, in the county of Kent, late a Major in the East Kent Militia, a Deputy Lieutenant and Justice of Peace for the said county of Kent, has given the like notice in respect of the invention of "Improvements in reaping machines."

As set forth in his petition, recorded in the said office on the 13th day of July, 1859.

1670. And RICHARD LONGSTAFF, of Mornington Road, New Cross, in the county of Kent, Pattern Maker, and ABRAHAM PULLAN, of Fortie Cottage, New Cross, in the same county, Engineer, have given the like notice in respect of the invention of "Improvements in traction or locomotive engines."

As set forth in their petition, recorded in the said office on the 14th day of July, 1859.

1678. And WILLIAM ORME CARTER, of 12, South John Street, Liverpool, in the county of Lancaster, has given the like notice in respect of the invention of "Improvements in machinery for sawing slate."

As set forth in his petition, recorded in the said office on the 15th day of July, 1859.

1695. And WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in apparatus employed in getting ships' anchors and in shackling chains."

As set forth in his petition, recorded in the said office on the 18th day of July, 1859.

1698. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "A new system of eccentric socket adapted to axletrees."—A communication from abroad by Jean Baptiste Gangand, No. 10, Rue Mogador, Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 19th day of July, 1859.

1708. And ZEPHIRIN GASPARD ALEXANDRE NATHAN PETRONE ORIOLI, of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "New applications of hypochloride of alumina to bleaching and dyeing, and to the disinfection and preservation of organic matters."

As set forth in his petition, recorded in the said office on the 20th day of July, 1859.

1726. And WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in capstans, riding bits, and stoppers for working with chains."

As set forth in his petition, recorded in the said office on the 23rd day of July, 1859.

1746. And WILLIAM HUDSON, of Burnley, in the county of Lancaster, Machinist, and CHRISTOPHER CATLOW, of the same place, Overlooker, have given the like notice in respect of the invention of "Certain improvements in looms for weaving."

1754. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Improved apparatus for turning over music leaves or sheets."—A communication from abroad by Hermine Madeleine Basset, of Boulevart St. Martin, Paris, in the empire of France.

As set forth in their respective petitions, both recorded in the said office on the 28th day of July, 1859.

1776. And THOMAS WRIGHT GARDINER TREEBY, of No. 1, Westbourne Terrace Villas, Upper Westbourne Terrace, Paddington, Middlesex, has given the like notice in respect of the invention of "Improvements in targets."

As set forth in his petition, recorded in the said office on the 1st day of August, 1859.

2042. And JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, have given the like notice in respect of the invention of "The manufacture of gelatine, and apparatus to be employed therein."

As set forth in their petition, recorded in the said office on the 7th day of September, 1859.

2178. And George Addenbrooke, of Greenhill Wimbourn, Wolverhampton, has given the like notice in respect of the invention of "Improvements in raising and lowering boats and other vessels from one water level to another, applicable in inland navigation."

As set forth in his petition, recorded in the said office on the 26th day of September, 1859.

2262. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in blankets used for printing calicoes and other fabrics, and in the mode of washing or cleaning the same."—A communication from abroad by Seth W. Baker, of Providence, Rhode Island, in the United States of America.

As set forth in his petition, recorded in the said office on the 5th day of October, 1859.

2316. And Joseph Skertchly, of Ashby-de-la-Zouch, in the county of Leicester, Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of mosaic and other ornamental tiles and slabs, and in apparatus connected therewith."

2328. And Charles Peters Moody, of Corton Denham, in the county of Somerset, Gentleman, has given the like notice in respect of the invention of "A method of, and apparatus for, raising grass and other crops on to stacks, which apparatus is also applicable to raising and transferring weights."

As set forth in their respective petitions, both recorded in the said office on the 12th day of October, 1859.

2364. And Samuel Newberry, of Burnley, in the county of Lancaster, Manager, and Henry Moore, of the same place, Cotton Spinner, have given the like notice in respect of the invention of "Certain improvements in looms for weaving."

As set forth in their petition, recorded in the said office on the 17th day of October, 1859.

2392. And Charles Seton, of Edinburgh, in the county of Mid-Lothian, Coach Builder, has given the like notice in respect of the invention of "Improvements applicable to the wheels of carriages generally for the purpose of reducing the draught thereof."

2394. And George Hart, of No. 6, Chapel Street West, May Fair, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of hats."

As set forth in their respective petitions, both recorded in the said office on the 19th day of October, 1859.

2410. And George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in apparatus for steering vessels."—A communication from abroad by E. N. Dickerson, of Park Row, New York, United States of America.

As set forth in his petition, recorded in the said office on the 21st day of October, 1859.

2416. And William Fox, of Amiens, in the department of the Somme, in the empire of France, Umbrella Frame Manufacturer, and James Willis, of Little Britain, in the city of London, Umbrella Manufacturer, have given the like notice in respect of the invention of "Improvements in the manufacture of umbrellas and parasols, part of which improvements is applicable to other purposes."

2423. And Francis North Clerk, of the firm of Peyton and Clerk, of Birmingham, in the county of Warwick, Edge Tool Manufacturers, and Charles Thomas, of Birmingham aforesaid, Foreman of Works, have given the like notice in respect of the invention of "Improvements in cleavers or choppers."

As set forth in their respective petitions, both recorded in the said office on the 22nd day of October, 1859.

2439. And Edwin Ellis, of St. Ann's Wells Road, Nottingham, has given the like notice in respect of the invention of "Improvements in the manufacture of lace, and in apparatus employed therein."

As set forth in his petition, recorded in the said office on the 25th day of October, 1859.

2477. And James Alfred Turner, of the city of Manchester, in the county of Lancaster, Paper Manufacturer, has given the like notice in respect of the invention of "Improvements in rendering paper waterproof."

As set forth in his petition, recorded in the said office on the 31st day of October, 1859.

2490. And Alfred Vincent Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "An improved mode of and apparatus for condensing and cooling vapour and fluids."—A communication from abroad by Ananias Smith, of Niagara Falls, in the United States of America.

As set forth in his petition, recorded in the said office on the 1st day of November, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

15th November, 1859.

1219. George Allcraft, of Upper Thames Street in the city of London, for an invention of "Improvements in pressure guages."—A communication from abroad by John Allcraft, of Bedford Street, New York.—Dated 16th May, 1859.

1226. Amèdée Etienne Charles Joseph Reynaud de Trets, of Marseilles, in the French empire, Gentleman, for an invention of "An improved composition for splitting rock."—Dated 17th May, 1859.

1227. James Nasmyth, of Surrey Street, Strand, in the city of Westminster, Engineer, for an invention of "Improved apparatus for obtaining and applying motive power."—Dated 17th May, 1859.

1231. Edward Charlesworth, of No. 1, De Grey Street, York, and No. 3, King William Street, Strand, in the county of Middlesex, for an invention of "Counteracting the recoil of small fire arms, and lessening the risk of injury arising from bursting of the same."—Dated 18th May, 1859.

1232. Samuel Norton Evans, of Chapel Yard, North Street, Wolverhampton, in the county of Stafford, Commission Agent, for an invention of "Improved mechanism for preventing accidents at mines from overwinding."—Dated 18th May, 1859.

1238. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in heating."—A communication from abroad by Stanislas Lebobe, of Paris.—Dated 18th May, 1859.

1240. Johan Valda, of London, in the county of Middlesex, for an invention of "Improvements in stud-fastenings, and a system of ornamenting and adapting belts, cravats, ribbons, draperies, and other articles to stud fastenings."—Dated 20th May, 1859.

1241. George Walker, of Old Nickols Street, Church Street, Shoreditch, in the county of Middlesex, for an invention of "Certain improvements in swing looking glasses."—Dated 20th May, 1859.

1244. George John Parfitt, of the city of Bath, in the county of Somerset, City Surveyor, for an invention of "Improvements in gas burners."—Dated 20th May, 1859.

1282. George Hadfield, of Carlisle, in the county of Cumberland, Varnish Manufacturer, for an invention of "An improved arrangement of heating and evaporating apparatus."—Dated 24th May, 1859.

1334. James Lee Norton, of Belle Sauvage Yard, Ludgate Hill, in the city of London, for an invention of "Improvements in machines for stretching and drying fabrics, and in drying wool and other fibres."—Dated 30th May, 1859.

1354. Samuel Wood and John Wood, both of the city of Manchester, Embroiderers, and Phillip Billington, of Rusholme, near the city of Manchester, Mechanic, for an invention of "Certain improvements in and applicable to machines for embroidering."—Dated 2nd June, 1859.

1360. Jean Baptiste Pascal, of Paris, in the empire of France, Civil Engineer, for an invention of "Improvements in hot-air engines."—Dated 2nd June, 1859.

1365. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "An improvement or improvements in the manufacture of iron and steel."—Dated 3rd June, 1859.

1384. Willoughby Green, of 2, Victoria Street, in the city of London, and of Leeds, in the county of York, for an invention of "Improvements in mowing machines."—Dated 6th June, 1859.

1385. Charles Pooley, of the city of Manchester, Cotton Spinner, for an invention of "Improvements in machinery for preparing to spin, and for spinning cotton and other fibrous materials."—Dated 7th June, 1859.

1404. Joseph Henry Tuck, of 34, Great George Street, Westminster, for an invention of "Improvements in breakwaters, sea walls, and like structures."—Dated 9th June, 1859.

1405. Enos Welsford, of Bona Algeria, Proprietor, for an invention of "Improvements in tanning."—Dated 9th June, 1859.

1438. Edward Humphrys, of Deptford, in the county of Kent, for an invention of "Improvements in marine steam engines."—Dated 15th June, 1859.

1445. William Birkmyre, of Port Glasgow, in the county of Renfrew, North Britain, Manufacturer, for an invention of "Improvements in drying, treating, and preparing yarns or thread."—Dated 16th June, 1859.

1474. William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for an invention of "An improved method of supplying furnaces with hot air."—A communication from abroad by Messrs. Addison Calvin Fletcher, of Cincinnati, Ohio, and George Ambrose Redman, of New York City, Gentleman, United States of America.—Dated 18th June, 1859.

1483. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved apparatus for blowing off water from steam boilers."—A communication from abroad by James Havey Washington, of Baltimore, in the United States of America.—Dated 20th June, 1859.

1491. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improvement in tailors' and other shears."—A communication from abroad by James H. Roome, of New York, in the United States of America.—Dated 21st June, 1859.

1551. John Joseph Griffin, of 119 and 120, Bunhill Row, in the county of Middlesex, for an invention of "Improvements in gas furnaces suitable for fusing refractory metals."—Dated 29th June, 1859.

1847. Walter Mac Lellan, of Glasgow, in the county of Lanark, North Britain, Iron Merchant, for an invention of "Improvements in parts of the permanent way of railways."—A communication from abroad by John Gregory, of Lisbon, in the kingdom of Portugal, Engineer.—Dated 9th August, 1859.

2193. Thomas Sutton, of St. Brelade, in the Island of Jersey, Gentleman, for an invention of "Improvements in the construction of apparatus for taking photographic pictures, consisting of and entitled 'an improved panoramic lens for taking photographic pictures.'"—Dated 28th September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 12th November, 1859, inclusive.*)

10th November.

2641. Andrew Barlow, of Shirley, in the county of Hants, Brewer, for an invention of "Improvements in mashing apparatuses." — Dated 10th November, 1856.

2642. François Jules Manceaux, of Paris, in the French empire, Manufacturer, and Eugène Napoleon Vieillard, of the same place, Gunsmith, for an invention of "An improvement in breech-loading fire-arms and ordnance."—Dated 10th November, 1856.

2648. William Smith, of 10, Salisbury Street, Adelphi, Civil Engineer, for an invention of "Improvements in machinery for sewing cloth and other materials."—A communication from Edward Howard and others, of Massachusetts, United States.—Dated 11th November, 1856.

2657. Julian Bernard, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for an invention of "Improvements in the manufacture or production of boots and shoes or coverings for the feet, and in the machinery or apparatus employed in such manufacture."—Dated 11th November, 1856.

2671. William Green, junior, of Framwellgate Colliery, near Durham, in the county of Durham, Colliery Viewer, and Thomas Storey, of the same place, Engine Wright, for an invention of "Improvements in machinery or apparatus for washing or cleaning coal."—Dated 12th November, 1856.

2700. Nicolas Pierre Joseph Leseure, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of No. 4, South Street, Finsbury, London, Gentleman, for an invention of "An improved embroidering machine."—Dated 15th November, 1856.

11th November.

2668. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in the preparation of fibres for spinning, and in machinery employed therein."—A communication from H. Hofer.—Dated 12th November, 1856.

2681. The Honorable William Erskine Cochrane, of No. 5, Osnaburgh Terrace, Regent's Park, in the county of Middlesex, for an invention of "Improvements in the permanent way of railways."—Dated 14th November, 1856.

2768. Alexander Clark, of Gate Street, Lincoln's Inn Fields, in the county of Middlesex, Engineer, for an invention of "Improvements in the application and construction of revolving window shutters and blinds, and metal window sashes."—Dated 21st November, 1856.

2777. William Edward Laycock, of Sheffield, in the county of York, Manufacturer, for an invention of "Improvements in looms for weaving."—Dated 22nd November, 1856.

12th November.

2674. Charles Wastell Dixey, of 3, New Bond Street, in the county of Middlesex, of the firm of C. W. Dixey and Co., Opticians, Mathematical and Philosophical Instrument Makers to Her Majesty, for an invention of "Improvements in double opera glasses and other glasses of a similar nature."—Dated 13th November, 1856.

2680. John Kinniburgh, of the town and county of Renfrew, North Britain, Foundry Manager, for an invention of "Improvements in moulding or shaping metals."—Dated 13th November, 1856.

2706. John Billing, of Abingdon Street, Westminster, in the county of Middlesex, Architect, for an invention of "Improvements in chimneys."—Dated 15th November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 12th November, 1859, inclusive.*)

11th November.

808. George Wilson, of the York Glass Company, in the city of York, for an invention of "An improved manufacture of glass bottles and jars."—Dated 20th November, 1852.

12th November.

755. James Robertson, of Glasgow, in the county of Lanark, North Britain, Cooper, for an invention of "Improvements in the manufacture of casks and other wooden vessels."—Dated 15th November, 1852.

FOREIGN PATENTS.



THE NETHERLANDS.

List of Patents Delivered since the 2nd July, 1859.*

(*Communicated by His Excellency the Minister of the Interior.*)

(For previous List, see No. 576 of this Journal.)

1. R. Passenger, of Rotterdam, represented by A. S. Preston, of Rotterdam, for "Improvements in washing machines."—10 years.—Dated 22nd January, 1858.
2. D. H. Carpenter, of New York, represented by J. De Bas, of Gravenhage, for an imported invention of "Improvements in lamps for burning camphine, naphtha, &c."—10 years.—Dated 5th May, 1858.

* For the Dutch Patent Law, see No 289 of this Journal.

3. Charles and Cler, of Paris, represented by L. J. Vonk, of Gravenhage, for an imported invention of "Improvements in the bars of grates and grates."—10 years.—Dated 20th June, 1858.

4. E. Delloye, of Lacken, represented by J. J. Van Dort, of Gravenhage, for an imported invention of "A new mode of obtaining pure saltpetre without refining."—15 years.—Dated 20th June, 1858.

5. F. D. Lepreux, of Paris, represented by L. J. Vonk, of Gravenhage, for "Improvements in machines for collecting and treating turf."—5 years.—Dated 13th July, 1858.

6. P. Pimont, of Rouen, represented by J. J. Van Dort, of Gravenhage, for an imported invention of "A new composition for coating walls of buildings, vessels, or machines."—5 years.—Dated 15th July, 1858.

7. S. Carpmael, of London, represented by A. S. Preston, of Rotterdam, for an imported invention of "Improvements in the construction of railways, and especially of rails."—10 years.—Dated 14th September, 1858.

8. Ch. Manuel, of Dijon, represented by Van Vlissingen van Heel and Derosne Cail and Co., of Amsterdam, for an imported invention of "Improvements in centrifugal machines for the manufacture of beetroot sugar."—15 years.—Dated 21st July, 1859.

9. H. Bourdon, of Paris, represented by Paul Van Vlissingen and Dudok Van Heel, of Amsterdam, for an imported invention of "Improvements in machines called 'hydro-pyrogènes-ignifères,' for applying steam and heat as a motive-power."—5 years.—Dated 21st July, 1859.

10. B. Andreae, of Buckan, near Magdeburg, represented by Van Vlissingen, Van Heel, and Derosne Cail and Co., of Amsterdam, for an imported invention of "An apparatus for bringing back condensed steam from the worms and double bottoms of boiling pans to the boilers."—5 years.—Dated 9th September, 1859.

11. C. Remy, of Delfshaven, for an "Improved yeast-press."—5 years.—Dated 10th September, 1859.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 25th October, 1859, and each bearing that date.

No. 25,873. Benjn. F. Avery, of Louisville, Ky., for an "Improvement in moulding ploughs."

"I claim the peculiar construction of the patterns B, C, of the short land side, as set forth, so that they may be drawn at opposite angles from each other, for the purpose and in the manner herein specified."

No. 25,874. G. H. Babcock, of Westerly, R.I., for a "Bronzing machine."

"I claim, first, in combination with mechanism for conveying the sheet, the use of rubbing cylinder E, and brush F, one or more of each, for the purposes and operating substantially in the manner herein described. Second, I claim the use of one or more stationary rubbers H, or their equivalents, for the purposes specified. Third, I claim the wires *x*, *x*, *x*, *x*, or their equivalents, for freeing the brush from the powder. Fourth, I claim constructing the gripper in the manner described, whereby I obtain the advantages above set forth. Fifth, I claim enclosing the rubbing and brushing cylinders in a case, for the purpose of retaining the powder and preventing waste."

No. 25,875. John W. Barcroft, of Friendship, Va., for an "Improvement in ditching machine."

"I claim, first, the combination of a revolving wheel B^2, having its buckets or scoops C, set tangentially with a stationary circular guard I, and an adjustable scraper G, substantially as and for the purposes set forth. 2nd, having the buckets or scoops hung on an axis D, at the centre of their length, and adjustable at both ends, substantially as and for the purposes set forth. 3rd, providing sharp cutters *a*, projecting at right angles from the centre of the scoop, substantially as and for the purposes set forth."

No. 25,876. Wm. T. Barnes, of Buffalo, N.Y., for an "Improvement in sewing machines."

"I claim the arrangement of the threaded elastic looper H, as constructed with a receiving and transferring spring G, when the two are secured on opposite sides of the needle, and operated to and from the needle by means of levers E and F, connecting rods D and D^1, and frames C, C, the several parts being combined and connected, substantially as and for the purpose herein specified."

No. 25,877. Mellen Battel, of Albany, N.Y., for an "Improvement in coal sifters."

"I claim the stationary ploughs and brushes and rubbers, in combination with the horizontal revolving sieve, as hereinbefore described and set forth, and made to operate."

No. 25,878. C. F. E. Blaich, of Elyria, O., for an "Improved apparatus for operating rudders."

"I claim the combination of the rudder B, C, spiral ribs D, and spirally grooved sliding tube E, substantially in the manner and for the purposes set forth."

No. 25,879. C. C. Bomberger, of West Carlisle, O., for an "Improved method of elevating water."

"I claim the arrangement of the air-tight boxes C, F, connected by the pipe G, and communicating respectively with the pipes A, D, in connection with the open vessel E, tube H, and the valves *b*, *o*, placed in the tube H and pipe P, and operated automatically as shown, or in an equivalent way, for the purpose set forth."

No. 25,880. W. Newton Brown, of New York, N.Y., for an "Improvement in mechanism for converting rotary into reciprocating motion."

"I claim the rock shaft D, having a hollow hub F, substantially as described, in combination with the oblong ring H, and rotating cam J, the said parts being made and operating in the manner set forth and for the purposes described."

No. 25,881. Martin J. Butler, of Nashville, Tenn., for an "Improved floating safety cabin."

"I claim the arrangement of the detached boat shaped cabin A, gate propeller I, J, K, M, jointed hinged straps D, D, wedge E, rudder F, windlass G, ordinary vessel O, valve S, R, Q, and passage P, and stairs N, all in the manner and for the purpose herein set forth."

No. 25,882. Mortimer M. Camp, of New Haven, Conn., for an "Improved surf life-boat."

"I claim, 1st, the combination of the water-ballast chamber D with the aperture E, and air pipe H, for the purpose of ballasting the boat when she enters the water, and of lightening it when she touches and reaches the shore as herein set forth. 2d, the combination of the valve F with the ballast chamber D and aperture E, for the purpose specified. 3rd, the combination of the floors C and G, for the purpose of forming the air chamber M beneath the working floor, and between the two floors as herein described. 4th, the combinations of the divisions I^1, I^1, with the working floor G, to form receptacles between said divisions, and the sides of the boat as and for the purpose set forth."

No. 25,883. JOHN R. CANNON, of New Albany, Ind., for an "Improvement in the construction of glass coffins."

"I claim constructing a coffin of glass, the body of which is provided with a groove *x*, *x*, and the lid with a flange *a*, *a*, and a pump B, the lid being secured to the body, by means of metallic bands D, D, substantially as and for the purpose specified."

No. 25,884. M. H. COLLINS, of Chelsea, Mass., for an "Improvement in machines for bolting flour, &c."

"I claim, 1st, a curved frame in which are placed one or more bolting sieves *d*, *g*, this frame being open at each end for the discharge of bran or other coarse material, substantially as and for the purposes set forth. 2nd, the combination with the curved frame and sieves of a corrugated rubber *t*, the frame and sieves having a vibrating motion in the path of a circle, while the rubber remains stationary, substantially as and for the purposes set forth. 3rd, the arrangement of sieves of different sized meshes, and having the same vibrating motion on the circular vibrating frame, and in the relation shown to a fan wheel, which causes a draft at the back of the machine, substantially as and for the purposes set forth."

No. 25,885. CHAUNCEY O. CROSBY, of New Haven, Conn., for an "Improvement in sewing machines."

"I claim, 1st, the rotary bobbin case H (armed with the inclined loop spreader H^1, and supporting on a pin *w* in its centre, the bobbin G, which holds one of the threads), in combination with the loop detainer *x*, when the whole is constructed, arranged, and made to operate substantially as and by the means herein described. 2nd, I claim the method of detaining the loop of the needle thread after the loop has passed the full diameter of the bobbin case, by the projection and inclined plane terminating in a point on the buffer. 3rd, I claim the frame or form composed of the curved bar O, bar R, and foot *k*, in combination with the bolt D^1, elbow-shaped lever *i* (carrying the pieces *g*), and friction cap a^1, when the whole is constructed, arranged, connected, and made to feed the material, substantially as herein described."

No. 25,886. JAMES CUMMING, of Boston, Mass., for an "Improvement in drilling machines."

"I claim, 1st, the arrangement of the notched interlocking slides H, H^1, right and left screws G, G, pinions E, E, *d*, *d*, shaft D, bed plate C, I, and upright drill J, all for operation together in the manner and for the purpose described. 2d, the combination of the drill arbor J, hollow swivel oiling cup K, L, independently rising and falling rod J, and disk *k*, attached in the manner and for the purpose herein described."

No. 25,887. R. C. CYPHERS, of Milledgeville, Geo., for an "Improved washing machine."

"I claim, first, the arrangement of the elastic suspended concave B, with slats *f*, pivoted to elastic strips *g*, in combination with the jointed spring rubber C, substantially as and for the purpose described. Second, in combination with the jointed spring rubber C, I claim the employment of a flexible band or rope *m*, for the purpose of securing the clothes to the rubber substantially as specified. Third, the arrangement of the central slat f^1, in combination with the elastic suspended concave B, and grooves *n*, substantially as and for the purpose set forth."

No. 25,888. HORACE L. EMERY, of Albany, N.Y., for an "Improvement in harvesters."

"I claim, 1st, combining with the cutter bar an adjustable arm or lever, provided with a roller or other means of sliding easily upon the ground, for the purpose of sustaining the cutter bar at any required distance from the ground, or allowing it to rest upon the ground at pleasure, for purposes herein set forth. 2nd, I also claim placing said arm directly in rear of the shoe, in order that it may be prevented by said shoe from clogging, as described. 3rd, I also claim connecting said arm by a rod along the back of the cutter bar with a lever near the frame of the machine, so that the attendant may elevate and depress the cutter bar at pleasure."

No. 25,889. GEORGE M. EVANS, of Pittsburgh, Pa., for an "Improvement in seed planters."

"I claim the combination and arrangement of the seed drums (*x*), elevators (*e*) on the belt (*f*), with the compartments (1, 2, and 3) of hopper (*d*), the cranks (*i* and *j*), the connecting rods (*k*), the ratchet wheels (*g*, B, and B 1), and the wheel (*b* 1), as herein described, and for the purpose set forth."

No. 25,890. H. B. FAY, of New York, N. Y., for an "Improvement in coffee pots."

"I claim the arrangement of the tube *d*, in combination with the adjustable double strainer D, that is arranged in a pot A between the spout and the liquid, substantially as and for the purpose specified."

No. 25,891. FELIX A. FINN, of New York, N. Y., for an "Improvement in studs and sleeve fasteners."

"I claim, first, the swivel bar and arm, arranged and operating as above specified, for the purpose set forth. I also claim, in combination therewith, the dovetail stud *m*, to confine the front end of the arm *f* when closed upon it, as and for the purposes set forth. I also claim the projecting screw *c*, against which the spring acts, as above described. I also claim, in combination with the above devices, the spring constructed and arranged as herein set forth."

No. 25,892. FREDERICK O. DEGENER, of New York, N. Y., for an "Improved automatic fan."

"I claim the arrangement and combination of a rotary fan blower with the hollow vibrating or distributing fan, for the purpose of producing a current of air and causing it to be distributed, substantially as and for the purpose specified."

No. 25,893. B. WELLS DUNKLEE, of Boston, Mass., for "Improved valves for stoves, furnaces, &c."

"I claim the side plates *a*, *c*, projecting from and connected with the hoe valve *b*, as related to each other, and in respect to the openings *h*, *h*, and flue F, substantially in manner, and for the purpose as above described."

No. 25,894. WM. FRIDLEY and FREDERICK CORNMAN, of Carlisle, Pa., for an "Improvement in preserve cans."

"We claim the employment of a perforated cover B, in combination with the gasket C and mouth (*b*, *b*), as herein shown and described, so that the gasket constitutes virtually a portion of the cover of and an index to the condition of the contents of the vessel."

No. 25,895. W. C. GEER, of Rockville, Conn., for an "Improvement in machine for cleaning and opening flock."

"I claim the employment or use of a revolving cone or cylinder C, provided with toothed lugs *a*, and placed within a correspondingly-shaped toothed shell B, in combination with the toothed cylinder I, concave J, and fan G, arranged for joint operation, substantially as and for the purpose set forth."

No. 25,896. DANIEL GORDON, of Evansville, Ind., for an "Improvement in implement for boring earth."

"I claim arranging the blades (*c*) on the convex surface of the bottom of the auger and extending the cut beyond the periphery, as represented. I also claim arranging the valves in the concave sides of the bottom of the auger, as set forth."

No. 25,897. DANIEL HESS, of West Union, Iowa, for an "Improvement in machinery for cleaning cotton."

"I claim, 1st, the curved metallic division F in combination with the front rollers B, B, and the bolting cloth, substantially in the manner and for the purpose set forth. 2nd, the combination of the fan C and case E with the back rollers B, B, and the bolting cloth D, for the purpose of cleansing the cloth from fibres of cotton, substantially as specified."

No. 25,898. SILAS HEWIT, of Seneca Falls, N. Y., for an "Improvement in pumps."

"I claim the plunger or bucket, when constructed in the manner and for the purposes set forth."

No. 25,899. ISAAC HOSKINS and JOSIAH HOSKINS, of Wilmington, Ohio, for an "Improvement in ditching and grading machine."

"We claim making the side wheel adjustable, so as to raise and lower the side of the frame to level or adjust it, as desired. We claim a bell made of bars with projections or flanges at each end, arranged to travel under cleats on the sides of the frame or trough, substantially as described."

No. 25,900. Anthony Iske and Jacob Teufel, of Lancaster, Pa., for an "Improved door latch and lock."

"We claim the arrangement and combination of the curved swivel lever D, bolt H, with its peg *f*, and projecting end to answer both for turning, pulling, and pushing, as shown, together with the revolving lever *s*, for operating the lock, when these several parts are made for the purpose and in the manner described or herein specified."

No. 25,901. Edwd. H. Jones, of Albany, N. Y., and Robt. Stevenson, of Schnectady, N. Y., for an "Improvement in furnaces for steam boilers."

"We claim the arrangement of the hopper-shaped grate box B, D, so constructed as to be adjustable in height, combined with the grates E, E, having means attached for rocking or agitating them, in their relation to each other and to the boiler firebox A, in the manner and for the purposes set forth."

No. 25,902. Saml. F. Jones, of St. Paul, Ind., for an "Improvement in mole plough."

"I claim, 1st, the employment of the ball *a*, not generally, but when said ball is secured in such a manner upon the top of the rear of the mole that it will revolve when the mole is in motion for the purpose of arching the top of the drain, and closing the opening of the coulter, substantially as set forth. 2nd, the combination of the nose E, mole D, ball *a*, rod *d*, and wheel F, when the same are used for the purpose of forming and arching the drain and closing the opening of the colter, substantially as and for the purpose set forth."

No. 25,903. Louis Koch, of New York, N. Y., for an "Improvement in moving tread power."

"I claim, first, the described mechanism, or its equivalent, when operated by the feet of man or animal in stepping on the ends of bands or cords during the act of walking. Secondly, I claim using the weight of man or animal in stepping on bands, or their equivalent, as a cause of resistance against the propelling of the machine, and giving motion by the walking of said man or animal to said mechanism, or its equivalent, independently of the motion of the wheels on which the whole mechanism is supported, substantially as described."

No. 25,904. Charles N. Lovejoy, of Columbia, S. C., for an "Improvement in cotton presses."

"I claim the guides Y for guiding the chains W and X upon fusee wheels S, and the follower I, block J, and windlasses T and Z, arranged and operated with each other and in the manner as described, when combined with the cotton box E, F, and G, and its operative parts L and S, in the manner described and for the purposes fully set forth."

No. 25,905. John McNeven, of Brooklyn, N. Y., for an "Improvement in skirt supporters."

"I claim the within-described dress supporter, consisting of a hoop A and stiffeners C, branching off from said hoop A, the wristband G, and tapes J, J, when the same are arranged, and combined, and applied to the body, substantially in the manner and for the purposes herein described."

No. 25,906. L. H. Miller, of Baltimore, Md., for an "Improvement in doors for iron safes."

"I claim the combination of the tongue *f*, groove *d*, flanges *b*, b^1, b^2, b^3, V-shaped mouldings *c*, *c*, and V-shaped grooves *e*, *e*, in the construction of a fireproof safe or bank vault, substantially in the manner and for the purpose herein described."

No. 25,907. Thos. Moore, of Minneapolis, Minn., for an "Improved apparatus for generating steam."

"I claim the employment, in combination with a steam engine or other apparatus in which steam is used, and the boiler which supplies it, of a system or arrangement of one or more condensers and heaters, with connecting pipes and a tank, whereby the exhaust steam, after passing along a pipe running through the boiler itself, is condensed by delivering up its remaining latent heat to water, which, after having been previously condensed in the same manner, is on its way back to the boiler, and whereby the water obtained by the condensation of the exhaust steam is heated on its way back to the boiler, and partly converted into steam again by the combined agencies of the latent heat it absorbs from the escaping steam, and by the heat it absorbs from the escaping waste production of combustion, substantially as herein described."

No. 25,908. James W. Neff, of Sacramento, Cal., for an "Improvement in windmills."

"I claim the arrrangement of the sails 'D,' arms or spokes 'G,' and hub 'E,' as described, and placing them in rear of the spiral spring 'A' and flange 'B,' and connecting flange 'B,' with sails 'D,' by rods 'F,' the whole operating as described and for the purposes set forth."

No. 25,909. George Neilson, of Boston, Mass. for an "Improvement in coffee pots."

"I claim the reversible cafetiere as composed of the boiler A, the filtering biggin B, the foraminus cup or strainer C, and the condenser or coffee pot D, having a spout *h* and cap *i*, the whole being arranged in manner and so as to operate as herein-before explained. I also claim the combination of the air and tell-tale pipe *c* with the boiling vessel A, the condensing vessel D, the biggin B, and the strainer or cap C, the object or purposes of the said pipe being as explained."

No. 25,910. Adrian V. B. Orr, of Lancaster, Pa., for an "Improvement in nail machines."

"First, I claim combining in a single pair of dies, constructed as described, the operations of cutting, pressing and gripping the nails or spike, substantially as specified. 2nd, I claim the slide point O, operating as described, in combination with the slide *h*, arranged as specified and for the purposes as set forth."

No. 25,911. Geo. F. Outten, of Norfolk, Va., for an "Improvement in car brakes."

"I claim the combination and arrangement of slide H, pawl *g*, spring *a*, ratchet wheels B, and chain I, levers *d* and *b*, and spring *h*, operating automatically or by hand, as may be desired, as herein set forth and described."

No. 25,912. Elhanaan Puffer, of Oxford, N. Y., for "Improved apparatus for raising water from wells, &c."

"I claim producing and controlling the movements of the windlass roller A, upon and with its actuating shaft B, in such a manner as to prevent the necessity of ever imparting a reverse rotary movement to the windlass shaft, whilst operating said apparatus, and by means substantially the same as those herein represented and described. I also claim combining the valve *j*, which closes the discharging aperture in the bottom of the bucket (C), with the inner end of the lever *h*, which is pivoted to the after edge of the mouth of said bucket, when arod *l*, or the equivalent of the same, is so situated within the curb as to be taken hold of by the hooked shaped outer end of said lever, just before the bucket reaches its highest position, for the purpose of causing the further upward movement of said bucket to throw forward its bottom and discharge its contents, substantially as herein set forth."

No. 25,913. T. J. W. Robertson, of New York, N. Y., for an "Improvement in sewing machines."

"I claim the arrangement and combination of the carrier M, spring plug Q, and vibrating arm L, substantially as and for the purposes herein shown and described."

No. 25,914. Alfred Rose, of Penn Yan, N. Y., for an "Improved churn dasher."

"I claim the churn dasher when made in the manner substantially as specified and set forth."

No. 25,915. Albert W. Roberts, of Hartford, Conn., for an "Improved disengaging hook."

"What I claim as a new article of manufacture is, a hook consisting of a hook link E, with bearer G on its side, in combination with the jointed ring A, lever D, crank pin c^1, and collar *c*, substantially as described."

No. 25,916. F. M. Robinson, of Conneautville, Pa., for an "Improvement in mills for crushing sugar-cane."

"I claim the combination of the flanged journal boxes D with the flanged sockets (*e*), in connection with the flanges (*g*, *h*), of the above parts, all as and for the purpose herein shown and described."

No. 25,917. Samuel Samuels, of Brooklyn, N.Y., for an "Improvement in reefing fore and aft sails."

"I claim supporting the rolling boom in two bearings, one of which is in a truss connected with the mast by a hoop, or its equivalent, and the other in a ring, which is held by the lift and braces, substantially as herein specified. And I further claim the combination with the rolling boom of the gyp. cy purchase, applied as herein described."

No. 25,918. Irwin B. Sawyer and F. Alsop, of Springfield, Ill., for an "Improvement in sewing machines."

"We claim the use of the hook *q* formed and moving substantially as described, combined with the shuttle and needle, substantially as described, and for the purpose specified."

No. 25,919. Thomas S. Seabury, of Stony Brook, N. Y., assignor to R. B. Gorsuch, of New York City, for a "Piano-forte action."

"I claim, first, pivoting the hammer butt to a post, or its equivalent, carried by its respective key, substantially as herein specified, for the purpose of enabling it to be withdrawn from the instrument along with the key. Second, the suspended jack or fly lever E attached to the hammer butt, and provided with a notch *e*, operating in combination with stationary rail F, substantially as herein described. Third, the arrangement of the regulating screw in the suspended jack or fly lever, in combination with the inclined plane *f* on the post erected upon the key to carry the hammer, substantially as herein described; but I wish to be understood as not claiming generally either the placing of the regulating screw in the jack or the employment of an inclined plane or wedge, to act in combination with an inclined or wedge-like surface. Fourth, the check H applied to the bottom of the key, and operating in combination with the suspended jack or fly lever, substantially as herein described."

No. 25,920. Isaac M. Singer, of New York, N.Y., for an "Improvement in carriages."

"I claim the arrangement in the main body of the carriage of the low seats, in combination with elevated seats, arranged in manner substantially as above described, and for the purposes set forth. I also claim, in combination with the back depressed and elevated seats, as described, the arrangement of the hinged partition, to answer the three-fold purpose of a step to get to the elevated back seats, as a back to the middle depressed seat, and to separate the feet of the persons sitting on the elevated seat from the persons sitting on the depressed seats. I also claim, in combination with the front elevated seats, as described, the arrangement of the hinged step leading to the elevated seats, together with its dirt flap, as described, for the three-fold purpose of a step to the elevated seats, a dirt protector, and of a seat in case of necessity. I also claim the arrangement of the boot for baggage in the space between the bottom and the front elevated seats, with doors at the sides, as described, thus placing the weight below, and concentrating it on the front axle, as described. I also claim the combination with the main body of the carriage the placing the coupé at the rear thereof, and communicating therewith by a doorway through the back, as described. I also claim depressing the coupé at the back of the main body that the bottom of both may extend below, and leave the required open space for the rear axle and its connections, and that the top of the coupé may form a footboard to the seats at the back edge of the top of the main body, as described. I also claim, in combination with the coupé, the open spaces under the back elevated seats of the main body opening into the coupé, as described, and for the purposes set forth."

No. 25,921. George A. Stone, of Roxbury, Mass., for an "Improvement in thrust bearings for rotating shafts."

"I claim, first, the combination of these four things, namely, a collar or collars on the shaft, washers provided with grooves on their faces, extending from their outer to their inner edges, made substantially as described, a reservoir of oil or other lubricating material, and a pillow block, or stationary resistance, all being and acting in combination, substantially as herein-before described for the purposes set forth; and, second, in combination with washers provided with grooves on their faces, a reservoir of lubricating material, a pillow block, or its equivalent, and a collar on a shaft, all as specified in my first claim. I claim grooves extending from face to face of the washers, made substantially in the manner, and serving the purposes described."

No. 25,922. F. Swift, of Hudson, Mich., for an "Improvement in grain separators."

"I claim the employment or use of a supplemental shoe C, placed within the shoe B, provided with screws *c*, and having an independent longitudinal shake movement given it, while the shoe B, with its screens *b*, has the usual lateral shake movement imparted to it, substantially as and for the purpose set forth."

No. 25,923. Peter Van Antwerp, of New York, N.Y., for an "Improvement in keys for locks."

"I claim constructing the stems of keys with a hole near the end, instead of the usual permanent bow, or ring handle, and to be fitted loosely to the usual ring for connecting a series of keys, and in such manner, substantially as described, that said connecting ring shall answer the further purpose of the usual bow, or fixed ring, for turning the keys when inserted in the lock, as set forth."

No. 25,924. John L. Whipple, of Detroit, Mich., for an "Improved spring bed."

"I claim the general arrangements of the slat (S), spring (W), and the strap (L), when constructed in the form above described and combined for the pupose, in the position as set forth."

No. 25,925. John L. Wentworth, of Spread Eagle Pa., for an "Improvement in field fences."

"I claim constructing each section of a fence of the two end posts A and B, the upper and lower longitudinal rails C and D, any suitable number of intermediate rails E and F, and the vertical bar G, when the several parts are arranged in respect to, and adapted to each other, substantially as set forth."

No. 25,926. Franklin Wesson and Nathan S. Harrington, of Worcester, Mass., for an "Improvement in breech-loading fire-arm."

"We claim, first, the arrangement of the mechanism for locking and unlocking the barrel, and the arrangement of the trigger, substantially as described. Second, we also claim the combination with the locking, and the unlocking mechanism, the spring (*k*), arranged substantially as described, for elevating the breech. Third, and we claim, in combination with the barrel, the wedge-shaped recess in the recoil plate, arranged substantially as described for the purpose set forth."

No. 25,927. J. S. Voorhies, of Catlettsburg, Ky., for "Improved portable shelves."

"I claim constructing portable box shelving for stores, book-cases, and all similar purposes, in the manner described, and operating as set forth."

No. 25,928. Dutee Wilcox, of Providence, R. I., for an "Improvement in shirt studs."

"I claim the above described new or improved mode of making a shirt stud, or button, viz., of the two parts or plates A, B, and the two hooks or curved holders C, D, constructed and applied, or arranged together, substantially in manner and to operate as described."

No. 25,929. Joseph Adams, of Cleveland, O., assignor to himself and B. Barker, of same place, for an "Improvement in cannon."

"I claim the use and application of a piston for the purpose of loading, cleaning, and cooling a cannon, the stem or rod (G) of which passes through the breech or rear end of the gun, and is attached to a head or metallic piston, the circumference of which is equal to that of the bore of the cannon, and is made to fit the same exactly, and which piston-head when drawn back rests upon the main shoulder or substance of the breech at the point where the rod G connects therewith, and is of sufficient length to cover and serve as a valve to close the lateral opening at the breech end of the cannon, through which water is admitted to fill the bore of the gun, when said piston is forced forward towards the muzzle, and which piston plays forward and backward the entire length of the bore of the gun, so as to protrude sufficiently at the muzzle when forced forward, thus carrying out any substance of the exhausted cartridge after firing, and to which piston head or bulb the new cartridge is attached and drawn back to the breech or but of the gun by the force applied to said rod, and in which condition the gun is loaded and ready to be again discharged. 2nd, I claim the construction and employment of a lateral opening from the main chamber or bore of the gun, either passing through the breech pin or otherwise at or near the rear end thereof, and where the same will be closed and covered by the piston head, when the same is fully drawn back into (or by means of a tube or pipe connecting with a water sack or vessel), and by means of which arrangement water is admitted and drawn into the gun by the same force which carries the piston forward to receive the charge at the muzzle, and is returned to the vessel again by the same force which carries in the charge, thus washing and cooling the gun at every discharge without any other movement than that necessarily employed in the act of loading alone."

No. 25,930. M. C. CRONK, of Auburn, N. Y., assignor to himself, Wm. Boynton, jr., and Albert H. Goss, of same place, for an "Improved mode of feeding in fuel to the fire boxes of cooking stoves."

"I claim, 1st, in combination with the stationary upper fire box, a rocking or swinging fire box underneath it, having a flange or cut-off *o* connected thereto, substantially as herein described. I also claim, in combination with the rocking or swinging fire box and cut off, a rising and falling grate H, substantially as described. I also claim, in combination with the rocking or swinging fire box and rising and falling grate, a single rod or shaft, with its cams for operating both, substantially as described."

No. 25,931. D. W. C. FARRINGTON, of Lowell, Mass., assignor to Tuttle and Mudge, of Boston, Mass., for an "Improvement in stoves."

"I claim a parlor stove, having an oven which is opened by raising the top in the manner substantially as herein set forth."

No. 25,932. CHARLES YOUNGLOVE HAYNES, of Philadelphia, Pa., assignor to C. Y. Haynes and Co., of same place, for an "Improvement in razor straps."

"I claim the strap, when constructed substantially in the manner and for the purposes described."

No. 25,933. W. H. HOWLAND, of San Francisco, Cal., assignor to himself and JOHN O. HANSCOM, of same place, for an "Improved amalgamator."

"I claim the combination of a pair of grinding cones F, G, revolving in different directions with a horizontally oscillating chambered dish G, substantially as and for the purposes herein shown and described."

No. 25,934. JOSEPH IVES, of Bristol, Conn., for an "Improvement in watches."

"I claim, first, the combination of the spring B, lever C, cam D, substantially in the manner as and for the purpose described. 2nd, I claim the substitution of ribbed or corrugated, planished or unplanished, tin plate for running gear, &c. (for other metals), when used in combination with the rolling pinion, substantially as and for the purpose described. And, 3, I claim making a crown wheel with rollers instead of teeth, to prevent slide and friction upon the verge or pallate, in the manner and for the purpose described."

No. 25,935. GEORGE W. SLAGLE, of Washington, D. C., assignor to himself and O. A. Dailey, of same place, for a "Composition for mixing with paints."

"I claim making melaniline oil or a substitute for linseed oil by mixing together linseed oil or other vegetable oil possessing similar qualities, water, and sal soda, or other similar suitable alkali, substantially in the manner set forth."

RE-ISSUES.

S. W. HOFFMAN and ADAM J. FREDERICK, of Philadelphia, Pa., assignees through Mesne assignment of Robert McWilliams, of said Philadelphia, for an "Improvement in journal boxes for railroad cars."—Patented 19th July, 1859.—Re-issued 25th October, 1859.

"We claim, firstly, the upper half A of the box, with its socket, formed by the flange *h*, in combination with the lower half B of the box, when the two halves are arranged substantially as set forth, so that on adjusting the lower half to its place it may assume the position shown in Fig. 1, and so that when adjusted the end *w* of the oil chamber shall be close to the axle, as and for the purpose specified. Secondly, the self-adusting leather packing E, and the metal plate F, when both are dependent upon the lower half of the box for their proper position within the other half, and when they are otherwise arranged in respect to both upper and lower half of the box, as and for the purpose set forth."

W. S. STETSON, of Baltimore, Md., for an "Improvement in harvesters."—Patented 5th April, 1859.—Re-issued 25th October, 1859.

"I claim, in combination with a main frame H, supported upon two carriage wheels A, A^1, which frame bears the shaft M and main cog wheel S, a second frame hinged to and vibrating about said shaft M, so that the crank shaft on said second frame shall always be in a radial line to the main cog wheel S, however much said second frame may vibrate on the main frame, as set forth. Second, I claim supporting the crank shaft V upon a vibrating frame R, intermediate between the cutter bar or its shoe X and the main frame H, when said main frame bears the main cog wheel S, and said intermediate frame vibrates or turns about an axis parallel to the axis of the driving or carriage wheels, as set forth."

W. S. STETSON, of Baltimore, Md., for an "Improvement in harvesters."—Patented 5th April, 1859.—Re-issued 25th October, 1859.

"I claim, first, the main frame H, which bears the pinion K, and has its vibratory motions up and down, independent of the motions of the platform and pole, in combination with the vibrating frame R, intermediate between the said main frame and cutter bar, as set forth. Second, I claim combining the adjusting lever Z with the platform C and main frame H, in the manner and for the purposes set forth. Third, I claim giving to the main frame H, which bears the driving pinion K, a back and forth motion upon the axletree, as set forth."

W. S. STETSON, of Baltimore, Md., for an "Improvement in harvesters."—Patented 5th April, 1859.—Re-issued 25th October, 1859.

"I claim the combination of shoe X with the vibrating frame R, by means of axis *y*, at the rear end of said frame, as set forth. Second, I claim horsing or supporting the knife bar in a position at right angles, or nearly so, to the carriage axle by two movements, substantially as described."

DESIGNS.

WM. NEWTON BROWN, of New York, N. Y., for a "Design for ornamenting sewing machines."

"I claim the use of the combination and application of the devices herein-before described for ornamenting the frame and working parts of sewing machinery, as set forth."

ANTHONY JOHN GALLAGHER, of Philadelphia, Pa., for a "Design for cooks' stoves."

"I claim the arrangement and combination of the ornaments that form the design herein above specified and represented in the accompanying drawings."

C. HARRIS and PAUL W. ZOINER, of Cincinnati, Ohio, for a "Design for parlor stoves."

"I claim the scrolls, flutings, and mouldings as set forth in the accompanying drawings, as forming an ornamental design for wood parlor stoves."

JEREMIAH MEGER, of New York, N. Y., assignor to A. Sampson, of Manchester, N. H., for a "Design for floor clothes."

"I claim the ornamental design represented in the accompanying pattern."

THOMAS H. WOOD, JOHN E. ROBERTS, and HENRY S. HUBBELL, of Utica, N. Y., for a "Design for cook's stoves."

"We claim the general design and configuration, represented in the accompanying photograph."

L. Q. C. WISHART, of Philadelphia, Pa., for a "Design for ornamenting bottles."

"I claim the ornamental design, described and represented in the drawing, for pine tree tar cordial bottles."

ADDITIONAL IMPROVEMENT.

JOSEPH F. HALL, of Bangor, Me., for "Improved curtain fixtures."—Patented 9th March, 1858.—Additional Improvement dated 25th October, 1859.

"I claim the application of the lever, as before explained and as it is represented in Figure 2, in combination with the cord and tassel, with the pulley or eye in the end of the tassel, and for the purpose described. And this I am desirous of adding to my original Letters Patent aforesaid."

Extension.

David B. Rogers, of Pittsburgh, Pa., for an "Improvement in cultivator teeth." — Patented 1st November, 1845. — Re-issued 20th September, 1859.

"I claim, making the shank or upper part of cultivator teeth of thin plate steel, U-shaped or curved round in front substantially as herein-before described, for the purpose of securing the necessary strength to permit the tooth to be made entire, shank and blade, of a single piece of metal, and also of enabling the tooth to be secured in its place in the hand by means of a wedge driven into the cavity of the shank, substantially as herein-before described."

List of Specifications published during the week ending 11th November, 1859.

No.	Price.	Subject-Matter.
		1856 (*Disclaimer*).
2218	7*d.*	Iron and steel.
		(1858 *Disclaimer*).
2377	3*d.*	Umbrellas and parasols.
		1859.
837	3*d.*	Protecting telegraph wires.
838	3*d.*	Manufacture of cocoa-nut fibre, yarn, and matting.
839	3*d.*	Hay-making machines.
840	3*d.*	Manufacture of barrels for small-arms.
842	3*d.*	Break for railway carriages.
844	9*d.*	Paddle wheels.
845	9*d.*	Ships' pumps, &c.
847	3*d.*	Jacquard machines.
848	6*d.*	Machinery for forging and stamping, metals.
849	1*s.* 1*d.*	Sewing machines.
850	6*d.*	Machinery for carding wool, &c.
852	5*d.*	Open fire-places.
853	7*d.*	Apparatus for regulating the quantity of water used tor flushing waterclosets, &c.
854	3*d.*	Propelling ships and other vessels.
855	10*d.*	Machinery for spinning and doubling cotton, &c.
856	3*d.*	Preparation of fibrous materials.
857	7*d.*	Safety apparatus for mine cages.
858	5*d.*	Clocks or timekeepers.
859	3*d.*	Cheese vats.
860	5*d.*	Tubular chain cable guide.
861	3*d.*	Preparation of writing paper and ink.
862	3*s.* 6*d.*	Manufacture of railway wheels and tyres, &c.
863	6*d.*	Coating electric telegraph wires.
864	3*d.*	Lubricating projectiles and cartridges.
865	3*d.*	Manufacture of card for carding cotton, &c.
866	7*d.*	Steam boilers.
867	6*d.*	Harness pads.
868	3*d.*	Reaping machines.
869	3*d.*	Reaping machines.
870	3*d.*	Agricultural drill.
871	6*d.*	Goblets, jugs, &c.
872	3*d.*	Boot trees.
873	7*d.*	Pyrotechnic signals.
874	3*d.*	Cartridges and fire-arms.
875	7*d.*	Rotatory steam-engines and pumps, &c.
876	1*s.* 10*d.*	Machinery for the manufacture of looped fabrics.
877	3*d.*	Looking glasses and mirrors.
878	7*d.*	Articulated joint for water, gas, and steam pipes.
879	3*d.*	Treatment of mineral phosphates of lime.
880	4*d.*	Dyeing fibrous materials or fabrics.
881	4*d.*	Insulating and protecting telegraphic conductors.
882	3*d.*	Remanufacturing compounds of india-rubber and sulphur.
883	6*d.*	Treating ores to obtain products therefrom.
884	7*d.*	Telegraphing and telegraphic apparatus.
885	7*d.*	Steam engines, &c.
886	5*d.*	Treatment of waste matter containing sulphur.
887	5*d.*	Manufacture of woven fabrics.
888	9*d.*	Steam engines.
889	2*s.* 8*d.*	Composing and distributing types.
890	1*s.* 4*d.*	Manufacture of stirrups, bits, spurs, &c.
891	7*d.*	Manufacture of ferro-cyanide and cyanide of potassium.
892	3*d.*	Cheese vats.
893	3*d.*	Manufacture of bonnet fronts and ruches.
894	3*d.*	Motive power for tanneries.
895	1*s.* 5*d.*	Steam engines and boilers.
896	1*s.*	Machinery for blocking and crimping the uppers of boots and shoes, &c.
897	3*d.*	Stoves and apparatus for warming and ventilating.
898	3*d.*	Working fly presses by steam, &c.
899	9*d.*	Cop tubes, &c. for spinning.
908	1*s.* 2*d.*	Beams and girders.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Erratum in Journal of 11th November.

2356. For "Berthand" read "Berthaud."

COLONIAL PATENTS.—Information as to the Mode of obtaining Protection for Inventions in the Colonies; contained in Communications from the Governors, &c. of the different British Colonies in answer to the Application of Mr. W. J. Curtis for a Patent. Price 1*s.*

PATENT RIGHTS in the COLONIES.—Abstract of Replies to the Secretary of State's Circular Despatch of July 11, 1856, calling for Information as to the Form of the Application to be made by Persons desirous of obtaining Patent Rights in the Colonies, and the Expenses attendant on the Grant of such Patent Rights. Price 2*s.* 6*d.*

REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of 2*l.* 3*s.* 11½*d.*

FIRE-ARMS, PROJECTILES, &c.—The series of Specifications and Drawings on this Subject, from 15th May, 1718, to 31st December, 1853, with Alphabetical and Subject-matter Indexes, may be obtained at the cost price of 9*l.* 18*s.* 6½*d.*

The Indexes, separately, price 3*s.*

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 12th November, 1859.

Mornings - - - -	1039
Evenings - - - -	1433
Total - - -	2472

Since the opening of the Museum Free Daily (May 12, 1858,)—161,308.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
Bavaria, No. 262.
Belgium, Nos. 292 and 348.
Baden, and Petty States of Germany, No. 325.
Canada, No. 279.
Cuba, No. 498.
Dutch West Indies, No. 322.
France, No. 228.
Greece, No. 325.
Germany, No. 435.
Hanover, No. 231.
India, Nos. 240, 348, and 552.
Mexico, No. 496.
Netherlands, No. 289.
New South Wales, No. 386.
Prussia, Nos. 313 and 329.
Parma, Piacenza, and Guastalla, No. 321.
Portugal, No. 325.
Poland, No. 335.
Roman States, No. 319.
Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 327 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

The classes already published are,—

1. DRAIN TILES AND PIPES, price 6*d.*
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6. MANUFACTURE OF IRON AND STEEL, price 5*s.*
7. AIDS TO LOCOMOTION, price 1*s.*
8. STEAM CULTURE, price 2*s.*
9. WATCHES, CLOCKS, AND OTHER TIME-KEEPERS, price 1*s.* 6*d.*
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16. MANUFACTURE AND APPLICATIONS OF INDIA RUBBER, GUTTA PERCHA, &c.; INCLUDING AIR, FIRE, AND WATER PROOFING, price 10*s.*

The following are in the press:—

PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 613. FRIDAY, NOVEMBER 18, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2132. To HUBERT JOSEPH WARLOMONT, Manager of the Vieille Montagne Zinc Works at Liege, in the kingdom of Belgium, for the invention of "Improvements in apparatus to be employed in the manufacture of zinc."

On his petition, recorded in the Office of the Commissioners on the 19th day of September, 1859.

2388. To GEORGE GREGG, of Sheffield, in the county of York, Currier, for the invention of "An improved method of dyeing leather black."

On his petition, recorded in the Office of the Commissioners on the 19th day of October, 1859.

2458. To PAUL RAPSEY HODGE, of No. 16, Chalcot Crescent, near Primrose Hill, in the county of Middlesex, Engineer, for the invention of "Improvements in the process of brewing fermented liquors, and in apparatus connected therewith, and in preparing and separating the materials, and the manner of using them in producing fermented liquors."

On his petition, recorded in the office of the Commissioners on the 27th day of October, 1859.

2472. To JOSEPH MASCORD, of Banbury, in the county of Oxford, Seedsman, JOSEPH BONNER, of the same place, Draper, and FREDERICK VINER, also of Banbury, Engineer, for the invention of "Improved machinery or apparatus for cutting up and pulping or reducing vegetable and animal substances."

On their petition, recorded in the Office of the Commissioners on the 29th day of October, 1859.

2495. To JOHN LEGGETT BUDDEN, Merchant, of 48, Fenchurch Street, in the city of London, for the invention of "Improvements in forming and driving piles for the construction of piers, jetties, viaducts, bridges, or other works where piles are usually employed."—A communication from abroad by Woodford Pilkington, Civil Engineer, of the Cape of Good Hope.

On his petition, recorded in the Office of the Commissioners on the 2nd day of November, 1859.

2497. To JAMES ALFRED TURNER, of the city of Manchester, in the county of Lancaster, Paper Manufacturer, for the invention of "Improvements in rendering paper waterproof."

2499. To ISIDORE FRANÇOIS DELAVIER, of Paris, France, Merchant, for the invention of "Improvements in coffee pots, tea pots, and other culinary or pharmaceutical vessels of the same nature."

2501. To CHARLES BACON, of Edgware Road, in the county of Middlesex, Esquire, for the invention of "Improvements in globes and shades for gas-lights, and oil or other lamps."

2503. To CHARLES WILLIAM SIEMENS, of Great George Street, Westminster, in the county of Middlesex, for the invention of "Improvements in insulating electric telegraphic conductors and in battery arrangements connected therewith."—Partly a communication from abroad by Werner Siemens, residing at Berlin, in Prussia.

2505. And to GEORGE WEMYSS, of Springwood Park, in the county of Roxburgh, North Britain, Gardener, for the invention of "Improvements in ventilators.

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of November, 1859.

2507. To ETIENNE JUZET, of 29, Boulevart St. Martin, Paris, in the empire of France, Mechanician, for the invention of "Improvements in lubricating apparatus."

2509. To AUGUST PETER BOOTHBY, of Dean Street, Soho, in the county of Middlesex, Travelling Bag Manufacturer, for the invention of "Improvements in travelling and such like bags."

2511. To LOUIS KOCH, Engineer, of New York, in the United States of America, for the invention of "A moving tread power."

2513. To CHARLES BROOK, junior, of Meltham Mill, in the county of York, Thread Manufacturer, for the invention of "Improved arrangements and apparatus for folding, tieing, and labelling hanks of yarn or thread."

2515. To WILLIAM CLARKE, of Nottingham, Manufacturer, and JOSEPH GEE, of Lenton, in the county of Nottingham, Mechanic, for the invention of "Improvements in the manufacture of looped fabrics."

2517. And to RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E. C., Patent Agent, for the invention of "Improvements in breech-loading ordnance and other fire-arms, and in projectiles to be used therewith."—A communication from abroad by John Webster Cochran, of New York.

On their several petitions, recorded in the Office of the Commissioners on the 4th day of November, 1859.

2521. To DAVID JOY, of Strangeways Iron Works, Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in machinery for the manufacture of telegraphic cables."—A communication from abroad by Charles de Bergue, residing at Barcelona, in the kingdom of Spain.

2523. To EMILE ALEXANDRE CUCHE, of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, for the invention of "Improvements in galvanizing metallic wires."

2525. And to THOMAS WHITTAKER MCCALLUM, of Belper, in the county of Derby, Hosier, and LUKE WOODWARD, of the town of Nottingham, Framesmith, for the invention of "Improvements in framework knitting machinery."

On their several petitions, recorded in the office of the Commissioners on the 5th day of November, 1859.

2527. To PETER DIETENS, of Brussels, in the kingdom of Belgium, Manufacturer, for the invention of "A system of letter-paper, letter-invoices, letter circulars, prices-currents, memorandums, and other missives."

2529. To JOHN ALGERNON CLARKE, of Long Sutton, in the county of Lincoln, Farmer, for the invention of "Improvements in extracting seeds or stones from foot."

2531. To HENRY CHARLTON, of Blackfriars, Manchester, in the county of Lancaster, Calenderer and Finisher, for the invention of "Certain improvements in the method of navigating steam ships or vessels, and in the apparatus connected therewith."

2533. To GEORGE MELINE, of Lay St. Christhope, in the department of the Meurthe, in the empire of France, Gentleman, for the invention of "Improvements in mills of whatever kind."

2535. And to WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in promoting or accelerating combustion in furnaces or fireplaces."—A communication from abroad by Charles Joseph Leopold Maire and Jean Baptiste Frédéric Jules Vallée, of Tours, in the empire of France.

On their several petitions, recorded in the Office of the Commissioners on the 7th day of November, 1859.

2537. To HENRY BUCKWORTH POWELL, of Foxleize Park, Lyndhurst, Hants, for the invention of "The protection and prevention of fouling or injuring by foreign matters the screws, paddles, rudders, and stern posts of steam ships or other vessels."

2539. To CHARLES GREED, of Birmingham, for invention of "Improvements in the manufacture of tubes suitable for locomotives and other steam boilers."

2541. To JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in 'passe-partouts,' or mounts for pictures."—A communication from abroad, by Auguste Pinard, of Paris, in the empire of France, Manufacturer.

2543. To GEORGE HADFIELD, of Carlisle, in the county of Cumberland, Varnish Manufacturer, for the invention of "Improved machinery for cutting staves for casks and barrels."

2545. And to WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "A compound applicable for the manufacture of manure, the preservation and disinfection of organic matters, and for other purposes."—A communication from abroad, by Mr. Victor Corne, of Boulevart St. Martin, Paris.

On their several petitions, recorded in the Office of the Commissioners on the 8th day of November, 1859.

2547. To GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the city of London, for the invention of "Improvements in the manufacture of endless leather bands, straps, or bells for driving machinery, and in apparatus for effecting the same."—A communication from abroad by Mr. Eugène Scellos, of Rue Popincourt, Paris.

2549. To MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for the invention of "An improved means of destroying insects in grain and other organic matters."—A communication from Louis Poret, residing at Mans (départ^{t} de la Sarthe), France.

2551. And to JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the city of London, for the invention of "Improvements in applying deodorizing fluids to sewers and other receptacles of sewage."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of November, 1859.

2553. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in railway breaks, also applicable for arresting the rotary motion of wheels and cylindrical bodies in general."—A communication from abroad by Jules Clément, Gentleman, residing at No. 17, Rue Tronchet, Paris, in the empire of France.

2555. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in mills or apparatuses for extracting oil from seeds, and for other purposes."—A communication from abroad by C. S. Francis, of Calcutta.

2557. To ARTHUR JAMES MELHUISH, of Holborn Bars, and also of Bowater Place, Blackheath, Optician, for the invention of "Improvements in the construction of cameras for obtaining photographic pictures."

2559. To GEORGE SEYMOUR, of 116, Fenchurch Street, in the city of London, for the invention of

"Improvements in insulating and protecting electric telegraph conductors."

3561. And to WILLIAM DAY, Builder, of Burton Latimer, near Wellingborough, in the county of Northampton, for the invention of "Certain improvements in propelling vessels, which said invention is also applicable for converting the force of the wind into a motive power to be used in any convenient way either for stationary or moveable purposes."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of November, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given, that the petition of

2574. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, praying for Letters Patent for the invention of "Improved apparatuses for the concentration, distribution, and application of the heat evolved by gas, oil, and other lamps,"—a communication from Henri Auguste D'Arbel, senr., of Paris,—was deposited and recorded in the Office of the Commissioners on the 14th day of November, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

18th November, 1859.

1243. HENRY NEWMAN, of Liverpool, in the county of Lancaster, Dentist, for an invention of "Improvements in the construction of artificial teeth, and in the mode or manner of affixing the same to the frame."—Dated 20th May, 1859.

1250. JAMES PALMER BUDD, of Ystalyfera, near Swansea, for an invention of "Improvements in the manufacture of tin and terne plates."—Dated 20th May, 1859.

1253. JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the county of Stafford, Mechanic, for an invention of "Improvements in the construction of lubricating and other cans, in order to regulate the discharge or flow of the liquids they contain."—Dated 21st May, 1859.

1349. JEAN FELIX MIQUEL, of Paris, France, Physician, for an invention of "Improvements in trusses."—Dated 1st June, 1859.

1402. WILLIAM BURNESS, of 2, Prospect Terrace, Brixton, in the county of Surrey, for an invention of "Improvements in steam-culture machinery, part of which is applicable to steam cartage and other purposes."—Dated 9th June, 1859.

1511. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention of "Improvements in the manufacture of artificial sandstone, bricks, tiles, and similar articles."—A communication from abroad by Léon and Edouard Pavin de Lafarge, Merchants, residing at Viviers, département de l'Ardèche, in the empire of France. —Dated 23rd June, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 16th November, 1859, inclusive.*)

14th November.

2705. GEORGE DAVIES, of the Office for Patents, 1, Serle Street, Lincoln's Inn, in the county of Middlesex, Civil Engineer, for an invention of "An improved paper suitable for the filtration of liquids, the dressing of wounds, and for the manufacture of envelopes, bags, bands, and for other similar purposes."—A communication from Jean Alphonse Pichot and Pierre Prosper Malapert, both of Poitiers, in the empire of France.—Dated 15th November, 1856.

16th November.

2797. JOHN MARSHALL, junior, of Selby, in the county of York, Oil Refiner, for an invention of "An improvement in the purifying of oils and fatty matters."—Dated 25th November, 1856.

2818. JOSEPH M. SAUNDERS, of Menloe Rathgar, Dublin, and 16, Westmoreland Street, Dublin, for an invention of "Improvements in cooking-ranges."—Dated 28th November, 1856.

2858. MATTHEW TOWNSEND, of Leicester, Fancy Hosier, for an invention of "Improvements in machinery for the manufacture of knitted fabrics." —Dated 2nd December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 15th November*, 1859.)

767. JOHN RAMSBOTTOM, of Longsight, near Manchester, in the county of Lancaster, Engineer, for an invention of "Certain improvements in steam-engines."—Dated 16th November, 1852.

Erratum in Journal of 21st October.

In the List of Letters Patent which had become Void by reason of the non-payment of the additional Stamp Duty of £50, the following Patent was omitted in error, it having been returned as stamped by the Stamp Office:—

No. of Register.	Date of Patent.	Name and Address of Patentee.	Title of Invention.
2266	27th Sept. 1856.	WILLIAM SMITH, of Skinner Street, Snow Hill, in the city of London, and NATHANIEL FORTESCUE TAYLOR, of Stratford, in the county of Essex, Gas Engineers.	Improvements in apparatus for measuring gas and other fluids, and in regulating the flow of the same.

THE CHRONOLOGICAL INDEX of PATENTS of INVENTION, from March 2, 1617 14 James I.), to September 30, 1852 (16 Vict.), 2 vols. Price 30*s.*

THE ALPHABETICAL INDEX of PATENTEES of Inventions for the above period. Price 20*s.*

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A Key to the *First Edition* of the above work is also published separately, and may be had on application.

THE CHRONOLOGICAL INDEXES of APPLICATIONS for PATENTS and PATENTS GRANTED from the 1st October to the 31st December, 1852, and from the 1st January to the 31st December, 1853, in one volume. Price 11*s.*

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THE ALPHABETICAL INDEX for the above period. Price 7*s.*

THE SUBJECT-MATTER INDEX for the above period. Price 16*s.* 6*d.*

THE CHRONOLOGICAL INDEX of APPLICATIONS for PATENTS and PATENTS GRANTED from the 1st January to the 31st December, 1855. Price 6*s.* 6*d.*

THE ALPHABETICAL INDEX for the above period. Price 7*s.* 6*d.*

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The following are in the press:—

PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

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This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers.—Terms, 30*s.* per annum.—Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 614. · TUESDAY, NOVEMBER 22, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1657. CHARLES SAMUEL WALKER and ROBERT HOYLE, both of Bury, in the county of Lancaster, Engineers, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in machinery or apparatus for promoting the consumption of smoke in steam boiler and other furnaces, and for preventing the explosion of steam boilers."

1662. And JOHN TAYLOR, of Roupell Park, Streatham Hill, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in stoves and fire places, and in the arrangement of flues connected therewith."

As set forth in their respective petitions, both recorded in the said office on the 13*th day of July*, 1859.

1666. And JOSEPH ATKINSON, of Lancaster, in the county of Lancaster, Gun Manufacturer, has given the like notice in respect of the invention of "Improvements in fire-arms."

As set forth in his petition, recorded in the said office on the 14*th day of July*, 1859.

1671. And CHRISTOPHER KINGSFORD, of Seaton, near Wingham, in the county of Kent, Civil Engineer, has given the like notice in respect of the invention of "Improvements in the preparation of peat and charcoal for fuel, in the manufacture of coke therefrom, and in the machinery and apparatus employed for effecting the same."

1672. And WILLIAM CLARK and WILLIAM WILLIAMS, of the city of Manchester, in the county of Lancaster, have given the like notice in respect of the invention of "Improvements in finishing woven fabrics."

1676. And JOHN PRENTICE FARRAR, of New York, in the United States of America, Gentleman, has given the like notice in respect of the invention of "Improvements in the treatment of iron."

As set forth in their respective petitions, all recorded in the said office on the 15*th day of July*, 1859.

1684. And HENRY CUNNEW, of the Triangle, Hackney, in the county of Middlesex, Manufacturer, has given the like notice in respect of the invention of "Improvements in elastic bands."

1686. And O'DONNELL GRIMSHAW, of Belfast, in the kingdom of Ireland, Postmaster, has given the like notice in respect of the invention of "Improvements in safety letter boxes or bags."

1689. And THOMAS CARLIELL, of Union Street, Portsea, Hampshire, has given the like notice in respect of the invention of "Improvements in vent pegs."

As set forth in their respective petitions, all recorded in the said office on the 16*th day of July*, 1859.

1692. And HENRY CHRISTOPHE MARTIN CRAMER, of Paris, France, Joiner, has given the like notice in respect of the invention of "Improvements in bedsteads."

1697. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the manufacture of india rubber and other like fabrics."—A communication from abroad by Jonathan Thompson Trotter, of New York, in the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 18*th day of July*, 1859.

1700. And JAMES SHANKS, of Arbroath, in the county of Forfar, North Britain, Machinist, has given the like notice in respect of the invention of "Improvements in mowing machines."

1702. And JOHN CHARLEY RIDDEL, of Belfast, in the county of Antrim, Ireland, has given the like

notice in respect of the invention of "Improvements in stalls, loose-boxes, and enclosures for horses, cows, pigs, or other animals."

As set forth in their respective petitions, both recorded in the said office on the 19th day of July, 1859.

1703. And James Erskine, of Newton Stewart, North Britain, Gun Maker, has given the like notice in respect of the invention of "Improvements in breech loading fire arms."

1704. And Thomas Curtis and Jonathan Haigh, both of Leeds, in the county of York, Cloth Finishers, have given the like notice in respect of the invention of "Improvements in the finishing of cloths."

As set forth in their respective petitions, both recorded in the said office on the 20th day of July, 1859.

1723. And Horatio Nelson Harrop, jr., of Manchester, in the county of Lancaster, Cigar Dealer, has given the like notice in respect of the invention of "Certain improvements in a cigar lighter and fusee box."

As set forth in his petition, recorded in the said office on the 23rd day of July, 1859.

1728. And John Rowland, junior, of Oldham, in the county of Lancaster, Manufacturer, and George Hall, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in machinery or apparatus for sizing yarns or threads, which said improvements are also applicable to dressing machines or other similar apparatus."

As set forth in their petition, recorded in the said office on the 25th day of July, 1859.

1735. And John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "Improvements in slide valves for steam engines."—A communication from abroad by Richard C. Bristol, of Chicago, United States of America.

As set forth in his petition, recorded in the said office on the 26th day of July, 1859.

1758. And Isaac Martin Lindley, of Staley Bridge, in the county of Chester, Currier and Leather Merchant, has given the like notice in respect of the invention of "Improvements in cop tubes."

1764. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Certain improvements in that class of fire-arms known as revolvers, and in bullets for the same."—A communication from abroad by John Walch, of New York, in the United States of America.

As set forth in their respective petitions, both recorded in the said office on the 29th day of July, 1859.

1781. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement applicable to salinometer cases for steam boilers."—A communication from abroad by Joseph Grice, of New York City, in the United States of America.

As set forth in his petition, recorded in the said office on the 1st day of August, 1859.

1786. And Bryan Donkin, of Bermondsey, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in, and in connection with, slide and other valves."—A communication from abroad by Thomas Coates, of Sommerfeld, Silesia, Engineer.

As set forth in his petition, recorded in the said office on the 2nd day of August, 1859.

1818. And Albert François Delannoy, of Paris, in the empire of France, Civil Engineer, has given the like notice in respect of the invention of "Improvements in lubricating the axles or journals of wheels, also applicable to lubricating apparatus for the transmission of motion in general."

As set forth in his petition, recorded in the said office on the 6th day of August, 1859.

1826. And Louis Bertrand Ollivier, of 29, Boulevart St. Martin, Paris, in the empire of France, Gentleman, has given the like notice in respect of the invention of "Improvements in closing or stoppering bottles, jars, and other receptacles."

As set forth in his petition, recorded in the said office on the 8th day of August, 1859.

1834. And Nelson Kenward, of Sutton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in constructing tubular steam boilers."

As set forth in his petition, recorded in the said office on the 9th day of August, 1859.

1989. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improvements in treating auriferous and argentiferous ores and substances."—A communication from abroad by Dr. Raoul Destrem, residing at Paris.

As set forth in his petition, recorded in the said office on the 31st day of August, 1859.

2031. And Richard Kelly Geldard, of Plymouth, in the county of Devon, Pharmaceutical Chemist, has given the like notice in respect of the invention of "Improvements in the method of and apparatus for making pharmaceutical or other infusions."

As set forth in his petition, recorded in the said office on the 6th day of September, 1859.

2084. And William Bridges Adams, of No. 1, Adam Street, Adelphi, in the county of Middlesex Engineer, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."

As set forth in his petition, recorded in the said office on the 13th day of September, 1859.

2116. And Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in

respect of the invention of "An automaton bell for the prevention of collisions at sea."—A communication from abroad by Gallois Foucoult, of St. Martin, in the empire of France.

As set forth in his petition, recorded in the said office on the 17th day of September, 1859.

2188. And Paschal J. Lejeune Chaumont, of Faubourg Vivegenes, 138, Liége, has given the like notice in respect of the invention of "Improvement in fire arms and ordnance, and in projectiles and cartridges to be used therewith."

As set forth in his petition, recorded in the said office on the 27th day of September, 1859.

2382. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machinery used for preparing for spinning silk, wool, or other fibrous substances."—A communication from abroad by Charles de Jongh, of Guebwiller, in the empire of France.

2383. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved method of making combs or gills employed in the preparation of fibrous substances."—A communication from abroad by Charles de Jongh, of Guebwiller, in the empire of France.

2385. And Auguste Scheurer Rott, of Thann, in the French empire, Manufacturer, has given the like notice in respect of the invention of "The preparation of certain substances for fixing colors in dyeing and printing, and for other purposes."

As set forth in their petition, all recorded in the said office on the 18th day of October, 1859.

2389. And John Gordon, Engineer, 3, Railway Place, Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for pulping coffee."

As set forth in his petition, recorded in the said office on the 19th day of October, 1859.

2413. And John Avery, of Essex Street, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in railroad weigh-locks and other platform scales."—A communication from E. Sampson and Dennison S. Wheeler, of Troy, U.S.A.

As set forth in his petition, recorded in the said office on the 22nd day of October, 1859.

2436. And William Charles Day, of the Strand, in the county of Middlesex, Military Outfitter, has given the like notice in respect of the invention of "Improvements in stockings and drawers, and other articles of underclothing."

As set forth in his petition, recorded in the said office on the 23rd day of October, 1859.

2442. And Alexander McGlashan, of Coal Yard, Drury Lane, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in refrigerators for cooling worts and other liquors."

As set forth in his petition, recorded in the said office on the 26th day of October, 1859.

2480. And John Ingham, of Halifax, in the county of York, Manufacturer, and George Collier, of the same place, Engineer, have given the like notice in respect of the invention of "Improvements in the manufacture of fabric of the character of that technically called 'camlet,' also in the winding of yarn employed in the production of such fabric, part of which improvements is applicable to other weavings."

As set forth in their petition, recorded in the said office on the 31st day of October, 1859.

2495. And John Leggett Budden, Merchant, of No. 48, Fenchurch Street, in the city of London, has given the like notice in respect of the invention of "Improvements in forming and driving piles for the construction of piers, jetties, viaducts, bridges, or other works where piles are usually employed."—A communication from abroad by Woodford Pilkington, Civil Engineer, of the Cape of Good Hope.

As set forth in his petition, recorded in the said office on the 2nd day of November, 1859.

2505. And George Wemyss, of Springwood Park in the county of Roxburgh, North Britain, Gardener, has given the like notice in respect of the invention of "Improvements in ventilators."

As set forth in his petition, recorded in the said office on the 3rd day of November, 1859.

2511. And Louis Koch, Engineer, of New York, in the United States of America, has given the like notice in respect of the invention of "A moving tread power."

As set forth in his petition, recorded in the said office on the 4th day of November, 1859.

2531. And Henry Charlton, of Blackfriars, Manchester, in the county of Lancaster, Calenderer and Finisher, has given the like notice in respect of the invention of "Certain improvements in the method of navigating steam ships or vessels, and in the apparatus connected therewith."

As set forth in his petition, recorded in the said office on the 7th day of November, 1859.

2561. And William Day, Builder, of Burton Latimer, near Wellingborough, in the county of Northampton, has given the like notice in respect of the invention of "Certain improvements in propelling vessels, which said invention is also applicable for converting the force of the wind into a motive power to be used in any convenient way, either for stationary or moveable purposes."

As set forth in his petition, recorded in the said office on the 10th day of November, 1859.

2574. And Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "Improved apparatuses for the concentration, distribution, and application of the heat evolved by gas, oil, and other lamps."—A communication from Henri Auguste D'Arbel, of Paris.

As set forth in his petition, recorded in the said office on the 14th day of November, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

22nd November, 1859.

1261. John Knowles, of Lower Broughton, near Manchester, in the county of Lancaster, Machinist, for an invention of "Certain improvements in power looms for weaving."—Dated 23rd May, 1859.

1262. Robert Valentine Leach, of Briton Ferry, in the county of Glamorgan, and of Devizes, in the county of Wilts, Tin-plate Manufacturer, and Thomas William Willett, of Pontneath-Vaughan, in the county of Brecon, Civil Engineer, for an invention of "Improvements in the manufacture of tin plates and terne or leaded plates, and in the apparatus connected therewith."—Dated 23rd May, 1859.

1264. George Burnell, of East Hoathly, in the county of Sussex, Gentleman, for an invention of "An improved preparation or medicine for the cure of ague."—Dated 23rd May, 1859.

1268. Charles Peters Moody, of Corton Denham, in the county of Somerset, Gentleman, for an invention of "Improvements in machinery for the manufacture of matting or fabric from straw and other vegetable fibres, and rods, or bars of wood and metal."—Dated 23rd May, 1859.

1269. Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Editor of the Mechanic's Magazine and Patent Agent, for an invention of "Improvements in axles and in fitting wheels thereto." — A communication from abroad by M. Masson, residing at Paris.—Dated 23rd May, 1859.

1277. George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "Atmospheric apparatus for the submarine transport of blocks of stone, and for raising sunken vessels." — A communication from abroad by T. Bandier, of Paris, in the empire of France.—Dated 24th May, 1859.

1279. Gilbert Daniel Jones, of Clerkenwell, in the county of Middlesex, Engineer, for an invention of "Improvements in mills or machinery for grinding, reducing, and pulverizing."—Dated 24th May, 1859.

1280. Joseph Gibbs, of Brentford, in the county of Middlesex, Civil Engineer, for an invention of "A method of treating coal, shale, lignites, and peat, in order to manufacture manure."—Dated 24th May, 1859.

1284. Antoine Joseph Sax, trading under the firm of Adolphe Sax, of Paris, France, Musical Instrument Maker, for an invention of "Improvements in wind musical instruments."—Dated 24th May, 1859.

1292. Alexander Prince, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for an invention of "Improvements in screw propellers." — A communication from abroad by Hermann Hirsch, resident at Berlin, in the kingdom of Prussia.—Dated 25th May, 1859.

1300. Hugh William Patrick, of No. 4, Mill Hill Terrace, Acton, in the county of Middlesex, for an invention of "A new substance or material to be used in lieu of ivory and other like substances."—Dated 26th May, 1859.

1304. George Frederic Chantrell, of Liverpool, in the county of Lancaster, Furnace Engineer, for an invention of "Improvements in the construction of charcoal kilns, and in the manufacture of coolers for charcoal kilns." — Dated 26th May, 1859.

1314. Leon Farrenc, Gentleman, and Bernard Subra, Professor of Mathematics, both of Paris, France, for an invention of "Improvements in gas lighting by means of direct carburators."—Dated 27th May, 1859.

1316. George Hadfield, of Carlisle, in the county of Cumberland, Varnish Manufacturer, for an invention of "Improvements in the mode of and apparatus for forming casks or barrels."—Dated 27th May, 1859.

1328. John Bruce, of Tiddington, near Stratford-on-Avon, in the county of Warwick, Agricultural Implement Maker, for an invention of "An improvement in agricultural drills." — Dated 30th May, 1859.

1332. William Green, of Victoria Works, Dod Street, Limehouse, in the county of Middlesex, for an invention of "Improvements in washing or purifying and treating sugar."—Dated 30th May, 1859.

1344. George Henry Smith, of the city of Manchester, in the county of Lancaster, for an invention of "Improvements in sewing machines."—Dated 31st May, 1859.

1346. John James Lundy, of the city of Manchester, in the county of Lancaster, and of Leith, North Britain, Colour and Varnish Manufacturer, for an invention of "Improvements in cartridges and gun-wads, for facilitating the loading and lubricating of fire arms."—Dated 31st May, 1859.

1368. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in reducing solid substances to powder, and in the machinery or apparatus employed therein."—A communication from abroad by William James Cantelo, of Burlington, Burlington county, state of New Jersey.—Dated 3rd June, 1859.

1406. Thomas Greenshields, of No. 11, Little Titchfield Street, London, for an invention of "Improvements in purifying gas, and obtaining ammoniacal and other salts."—Dated 10th June, 1859.

1450. Thomas Wharton Jones, of 35, George Street, Hanover Square, in the county of Middle-

sex, Esquire, for an invention of "Stereoscopic glasses for single pictures."—Dated 16th June, 1859.

1756. Patrick Robertson, of Sun Court, Cornhill, in the city of London, for an invention of "Improvements in the manufacture of beer, ale, porter, and spirits."—Dated 28th July, 1859.

1842. Frederic Louis Lawrence, of 50, Berners Street, Oxford Street, in the county of Middlesex, Dentist, for an invention of "Improvements in coloring and hardening elastic gums for dental purposes."—Dated 9th August, 1859.

1958. Emil Rettig, of New Cross, in the county of Kent, Merchant, for an invention of "Improvements in the form and construction of anchors."—Partly a communication from abroad by Ferdinand Martin, of Marseilles, in the French empire, Merchant.—Dated 27th August, 1859.

1970. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings."—A communication from abroad by Joseph Harrison, the younger, of the city of Philadelphia, in the state of Pennsylvania, in the United States of America, Engineer.—Dated 30th August, 1859.

1978. James Cowgill and John Stocks, both of Bradford, in the county of York, Mechanics, for an invention of "Improvements in 'caps' for spinning fibrous substances, and in the means or method of manufacturing the same."—Dated 31st August, 1859.

2034. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved fabric applicable to the manufacture of hose or flexible pipes."—A communication from abroad by Nehemiah Hunt, of Boston, in the United States of America.—Dated 6th September, 1859.

2072. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved arrangement of piston packing principally applicable to hydraulic apparatus."—A communication from Casimir and Celestin Dabbène, residing at Verduno, Sardinian States.—Dated 12th September, 1859.

2104. John Pretty Clarke, of King Street Mills, Leicester, for an invention of "Improvements in the manufacture of spools or reels for the winding on of cotton, linen, thread, silk, or other fibrous materials."—Dated 15th September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 19th November*, 1859, *inclusive.*)

17th November.

2717. Esteves Blanchon, of Blois, in the empire of France, Gentleman, for an invention of "Machinery and apparatus for marking and boring leather and other similar substances, for making and cutting screwed pins, and for uniting leather and other similar materials."—A communication.—Dated 17th November, 1856.

2741. Samuel Fox, of Deepcar, Sheffield, for an invention of "Improvements in heating steel wire and tubes, also ribs and stretchers of umbrellas and parasols, for hardening, and in apparatus for straightening wire and tubes."—Dated 19th November, 1856.

2815. James Higgin, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in treating certain vegetable dye stuffs, or preparations therefrom, so as to obtain a colouring substance of increased purity."—Dated 28th November, 1856.

19th November.

2743. James Montgomery Gilbert, of the city of Manchester, Engraver, for an invention of "Improvements in certain machines for etching or engraving."—Dated 20th November, 1856.

2757. John William Clare, of White Street, in the parish of St. George the Martyr, in the county of Surrey, for an invention of "Improvements in preventing, removing, consuming, and condensing smoke and noxious vapours, and in apparatus for those purposes."—Dated 21st November, 1856.

2758. Charles Tooth, of Burton-upon-Trent, Brewer, for an invention of "Improvements in charging or filling and filling up casks or other vessels for containing fermenting liquids."—Dated 21st November, 1856.

2894. William Hadfield Bowers, of Gorton, in the parish of Manchester, in the county of Lancaster, Manufacturing Chemist, for an invention of "Improvements in apparatus to be used for the purposes of distillation."—Dated 6th December, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 18th November*, 1859, *inclusive.*)

17th November.

771. John Thomas Way, of Holles Street, Cavendish Square, in the county of Middlesex, Professor of Chemistry, and John Manwaring Paine, of Farnham, in the county of Surrey, Gentleman, for an invention of "Improvements in the manufacture of burned and fired ware."—Dated 17th November, 1852.

785. Peter Carmichael, of Dens Works, Dundee, in the county of Forfar, for an invention of "Improvements in machinery for winding yarn or thread."—Dated 19th November, 1852.

18th November.

780. James Potter, of Manchester, in the county of Lancaster, Machinist, for an invention of "Improvements in machinery for spinning cotton and other fibrous substances."—Dated 19th November, 1852.

TABLE showing the Number of Patents of Invention granted in England to Residents in the undermentioned Countries from A.D. 1617 to A.D. 1858 (Dec. 31):—

England	27,759
France	2,176
Scotland	1,514
United States of America	776
Ireland	427
Wales	261
Belgium	134
Prussia	75
Germany	71
Italy	38
Channel Islands	37
Switzerland	34
Sardinia	33
Austria	31
British North America	24
West Indies	17
Denmark	14
Spain	13
Sweden	13
Holland	10
East Indies	8
Portugal	8
Australia	6
Russia	6
Turkey	4
Ceylon	3
Hungary	3
Mexico	3
South America	3
Algeria	2
British Guiana	2
Mauritius	2
Arabia	1
Barbadoes	1
Bermuda	1
Cape of Good Hope	1
Norway	1
Number of Patents in which the Patentees have given no address	531

B. WOODCROFT.

Errata in Journal of 18th November.

2529. For "foot" read "fruit."

2539. For "Greed" read "Green."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.

BELGIUM.*

LIST of PATENTS Delivered on the 17th November 1859.†

(*Communicated by the Belgian Government.*)

* (For previous List, see No. 611 of this Journal.)

8060. J. FYNN, of Ghent, for "A trocar with a stop for cutting abscesses in the maxillar sinus."—Dated 6th October, 1859.

8140. H. CUNNEW, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in elastic bands for keeping notes, letters, &c."—Dated 22nd October, 1859.—(English Patent, 19th July, 1859.)

8141. B. J. JEAN, of St. Ghislain, a Patent of Improvement for "A process for preserving yeast of beer."—Dated 22nd October, 1859. — (Original Patent, 7th April, 1859.)

8142. G. SMITH, represented by A Crooy, of Brussels, for an imported invention of "An improved hatband."—Dated 24th October, 1859.—(English Patent, 10th June, 1859.)

8143. E. MOXHAM, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in stereoscopic apparatus."— Dated 24th October, 1859. — (English Patent, 31st May, 1859.)

8144. CH. CHRISTMANN, represented by V. Huyge, of Lokeren, for an imported invention of "A dividing engine for moulding gear wheels of all diameters."—Dated 24th October, 1859.—(French Patent, 15th June, 1858.)

8145. E. MULLER, represented by O. Daillencourt, of Brussels, for an imported invention of "A system of bathing in mists of mineral water, seawater, &c."—Dated 25th October, 1859.—(French Patent, 14th March, 1859.)

8146. J. MOLL, of Brussels, for "A disinfecting substance."—Dated 26th October, 1859.

8147. HEROLD, PANKL, and SCHEITHAUER, represented by D. de Vos-Verraert, of Brussels, for an imported invention of "A machine for printing woollen tissues."—Dated 26th October, 1859.—(Austrian Patent, 14th August, 1858.)

8148. L. CAHEN, of Brussels, for "Manufacture of wheels of steam carriages, locomotives, &c."—Dated 26th October, 1859.

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office where also translated Indexes may be consulted.

8149. C. J. B. E. Caillonè, represented by H. Biebuyck, of Brussels, for an imported invention of "Smoothing-irons." — Dated 26th October, 1859.—(French Patent, 21st October, 1859.)

8150. J. Boy, represented by H. Biebuyck, of Brussels, for an imported invention of "An electro-crystal reflector for gas apparatus."—Dated 26th October, 1859.—(French Patent, 18th October, 1859.)

8151. A. Loiseau, represented by H. Biebuyck, of Brussels, for an imported invention of "Manufacture of economical cloth or tissue."—Dated 26th October, 1859.—(French Patent, 19th October, 1859.)

8152. E. A. Boudier, represented by X. Raclot, of Brussels, for an imported invention of "Arrangements in slides and pipes for Woolf's steam engines, with a movement of alternate pistons."—Dated 26th October, 1859.—(French Patent, 8th December, 1857.)

8153. J. Beattie, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in means of preventing locomotives, carriages, &c. from running off the rails."—Dated 26th October, 1859.—(English Patent, 14th April, 1859.)

8154. J. Marchand, of Lize-lez-Seraing, for "A parachute for mines." — Dated 25th October, 1859.

8855. A. J. Gérard, of Liége, a Patent of Improvement for "Electro motors."—Dated 26th October, 1859.—(Original Patent, 29th August, 1859.)

8156. J. Dartois, of Filéron, for "An apparatus for boring mines."—Dated 27th October, 1859.

8157. J. Croisy, represented by G. Burle, of Brussels, for an imported invention of "A machine for making bolts and rivets."—Dated 27th October, 1859.—(French Patent, 11th August, 1857.)

8158. L. J. E. Dupont, represented by A. Picard, of Brussels, for an imported invention of "A process for impregnating grits with steam."—Dated 27th October, 1859.—(French Patent, 10th September, 1859.)

8159. F. Durand, of Brussels, for an imported invention of "Manufacture of vegetable glue from wheat."—Dated 28th October, 1859. — (French Patent, 22nd October, 1859.)

8160. L. Serbat, represented by F. Mahien, of Brussels, for "Removing the incrustation of tubular boilers."—Dated 28th October, 1859.

161. N. Verhaeren, of Molenbeek St. Jean, for "A colourless siccative."—Dated 28th October, 1859.

8162. A. Romedenne, of Liége, for "Breech-loading muskets with fixed barrels and revolving cartridges."—Dated 28th October, 1859.

8164. H. Godin, of Liége, a Patent of Improvement for "Keys of Lefaucheux' guns."—Dated 31st October, 1859. — (Original Patent, 9th June, 1856.)

8165. J. Malherbe, of Liége, for "A process for turning cylinders of rolling mills." — Dated 31st October, 1859.

8166. G. J. Heuse-Orban, of Nessonvaux, for "Manufacture of gun-barrels lined with steel."—Dated 31st October, 1859.

8167. Eug. Lacroix, represented by X. Raclot, of Brussels, for "A mechanical means of regulating the immersion of propellers for inland navigation." —Dated 29th October, 1859.

8168. J. Brière, represented by Th. Boutillier, for "Compasses with multiple divisions."—Dated 29th October, 1859.

8169. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the manufacture of cast steel."—Dated 29th October, 1859.—(English Patent, 3rd May, 1859.)

8170. J. H. Young, represented by G. Jollie, of Antwerp, for an imported invention of "A machine for setting and distributing type."—Dated 2nd November, 1859.—(English Patent, 9th April, 1859.)

8171. Jollet, Babin, and Gâche, sen., represented by A. Picard, of Brussels, for an imported invention of "A steam boat for dredging basins of water."— Dated 31st October, 1859.—(French Patent, 3rd September, 1859.)

8172. C. Eyrand, represented by F. Clavareau, of Brussels, for "A system of revolvers with fire-locks and gearings."—Dated 31st October, 1859.—(French Patent, 15th Norember, 1858.)

8173. J. F. Dugniolle, of Brussels, for "A mode of fitting metal pipes."—Dated 31st October, 1859.

8174. P. Chaineux, of Hoignée-Cheratte, for "Fastenings of revolvers."—Dated 3rd November, 1859.

8175. J. Chaineaux, of Wandre, for "Improvements in Mathieu and Lefaucheux' breech-loading revolvers."—Dated 3rd November, 1859.

8176. J. B. Delrieux, of Liége, for "Manufacture of gun-barrels of cast steel without welding."—Dated 3rd November, 1859.

8177. P. Dietens, of Brussels, for "Safety seals of letters and missives."—Dated 3rd November, 1859.

8178. Th. Cook, represented by A. Crooy, of Brussels, for an imported invention of "Improvements in the manufacture of small wooden screws."—Dated 3rd November, 1859. — (English Patent, 14th October, 1859.)

8180. J. Reynolds, represented by F. Anthoine, for an imported invention of "Improvements in propelling vessels."—Dated 3rd November, 1859.—(English Patent, 26th May, 1859.)

8181. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in manufacturing and puddling iron and steel."—Dated 3rd November, 1859. — (English Patent, 7th May, 1859.)

8182. H. Comblain, of Wandre, a Patent of Improvement for "Revolvers."—Dated 27th October, 1859.—(Original Patent, 31st March, 1854.)

8183. J. Lerat, represented by F. Cordie, of Mons, a Patent of Improvement for "Heating lime-kilns."— Dated 4th November, 1859.—(Original Patent, 2nd November, 1858.)

8184. J. B. J. Desramaut, of Saint-Nicholas, for "Manufacture of varnish."—Dated 7th November, 1859.

8186. P. Dietens, of Brussels, for "Envelopes of letters and missives, with a safety seal."—Dated 4th November, 1859.



SAXONY.*

List of Patents for Inventions Delivered between the 1st July and 30th September, 1859.†

(*Communicated by the Saxon Government.*)

(For preceding List, the No. 578 of this Journal.)

1. Franz Louis Schwalbe, of Chemnitz, for "A machine for cleaning malt and corn."—5 years."—Dated 1st July, 1859.
2. Richard Hartmann, of Chemnitz, for the St. George's Iron Works, near St. Gallen, for "A double embroidering machine."—5 years."—Dated 1st July, 1859.
3. Grabert, of Neuwedel, for "Prismatic sights of fire-arms."—5 years.—Dated 1st July, 1859.
4. Albert Ostertag, of Dresden, for A. E. Rochette and Co., of Paris, for "A chromotypographic press, for printing fabrics with manifold colours."—5 years.—Dated 30th June, 1859.
5. Carl Gottlob Knöfel, of Wernsdorf, for "Construction of a tower clock with a repose cylinder escapement.—5 years.—Dated 30th June, 1859.
6. T. H. F. Prillwitz, of Berlin, for Walter Ralston, of Manchester, for "Improvements in apparatus for calico-printing."—5 years.—Dated 1st July, 1859.
7. Hermann Wilke, of Chemnitz, for "A weaving machine."—5 years.—Dated 4th July, 1859.
8. Schäffer and Budenberg, of Buckau, near Magdeburg, for "A water-gauge of steam boilers."—5 years.—Dated 7th July, 1859.
9. Schäffer and Budenberg, of Buckau, near Magdeburg, for "A safety apparatus or alarum for steam boilers."—5 years.—Dated 7th July, 1859.
10. Dr. Meissner, of Leipzig, for Richard Demeuse, of Verviers, for "An apparatus for feeding steam boilers."—5 years.—Dated 7th July, 1859.
11. Hermann Findeisen, of Chemnitz, for Adolph Schöller, of Brünn, for "Manufacture of asphalt woollen felt."—5 years.—Dated 9th July, 1859.
12. J. H. F. Prillwitz, of Berlin, for Lewis Wells Broadwell, of New Orleans, for "Improvements in preparing millstones."—5 years.—Dated 13th July, 1859.
13. S. Elster, of Berlin, for "A new gasmeter with a steady waterwheel."—5 years.—Dated 16th July, 1859.
14. Christian Weidenmüller, of Auerbach, for "A circular tenter."—5 years.—Dated 19th July, 1859.
15. Sachsenberg Brothers, of Rosslau on the Elbe, for "A press for making bricks."—5 years.—Dated 20th July, 1859.
16. Christian Heinrich Knoth, of Laubegast, for "A machine for pressing bricks."—5 years.—Dated 23rd July, 1859.
17. Julius Gustav Schindler, of Strühlen, near Dresden, for "A process for obtaining flour, and apparatus belonging thereto, the cylinder press of which being also applicable to pressing out juice, and to other purposes."—5 years.—Dated 26th July, 1859.
18. Christian Friedrich Jage, of Leipzig, for "Improvements in ice-safes."—5 years.—Dated 28th July, 1859.
19. Wilhelm Ernst Kaps, of Dresden, for "A repeating mechanism of oblique pianofortes."—5 years.—Dated 28th July, 1859.
20. Julius Wilhelm Spindler, of Berlin, for "A method of obtaining and applying a new red dyeing substance, called 'fuchsine.'"—5 years.—Dated 28th July, 1859.
21. Münnich and Co., of Chemnitz, for "Improvements in malt kilns with rotary cylinders."—5 years.—Dated 28th July, 1859.
22. Friedrich Carl Hoffmann, of Zwickau, for "Improvements in malt kilns with rotary cylinders."—5 years.—Dated 29th July, 1859.
23. Friedrich Wilhelm Grüner, of Glauchau, for "A machine for washing raw woollen yarns."—5 years.—Dated 1st August, 1859.
24. Joseph Asbach, of Chemnitz, for "A rotary malt kiln."—5 years.—Dated 13th August, 1859.
25. Friedrich Hoffmann, of Sebnitz, for "A peculiar kind of boxes for winding up lamps."—5 years.—Dated 15th August, 1859.
26. Richard Lauckner, of Aue, for "An arrangement in cards for cotton, wool, oakum, flax, silk, and other fibrous substances, whereby the fleece may be divided broadwise into any number of slubs."—5 years.—Dated 16th August, 1859.
27. F. Edmund Thode, of Dresden, for "Improvements in straining paper pulp."—5 years.—Dated 23rd August, 1859.
28. Ernst Seidler, of Dresden, and Friedrich August Stolle, of Chemnitz, for "A smoke-consuming firing apparatus."—5 years.—Dated 30th August, 1859.
29. Johannes Mathias Forster, of Dresden, for "A mode of fixing brushes to walking sticks for cleaning foot coverings from dust and snow."—5 years.—Dated 1st September, 1859.
30. C. F. Schmidt, of Frankenburg, for "A mechanical hand-printing table with a stretching and report frame."—5 years.—Dated 7th September, 1859.
31. Bernhard Leopold Löbel, of Limbach, near Chemnitz, for "A mechanical hosiery frame for

† For the Saxon Patent Law, see No. 236 of this Journal.
‡ All the published Specifications are deposited in the free Library of the Commissioners of Patents, where translations of the same may be had.

obtaining regular fabrics."—5 years.—Dated 13th September, 1859.

32. Friederich August Jentsch, of Chemnitz, for "Improvements in Jaquin's stocking-frames."—5 years.—Dated 13th September, 1859.

33. J. H. F. Prillwitz, of Berlin, for Jean Bradly' Aiken, of Manchester, for "Improvements in machines for knitting tricot."—5 years.—Dated 21st September, 1859.

34. Dr. John Baptist Rottenstein, of Frankfort-on-the-Maine, for "Putnam's method of applying vulcanized caoutchouc or gutta percha as a substitute for gold or other metals to the manufacture of artificial sets of teeth, and apparatus for shaping and vulcanizing caoutchouc and portable steam apparatus for hardening caoutchouc, gutta percha, and other substances used in the manufacture of artificial sets of teeth."—5 years.—Dated 21st September, 1859.

35. Alois Auer, of Vienna, for "Self-acting apparatus combined with fly-presses for laying in and cutting paper, together with a damping machine."—5 years.—Dated 26th September, 1859.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 1st November, 1859, and each bearing that date.

No. 25,936. Edward R. Arnold, of Providence, R. I., for an "Improvement in cut-off valves of steam engines."

"I claim, 1st, making the tappet C, Fig. 4, and the ends of the jointed valve rods D, D^1, Fig. 3, inclined in a direction at right angles to their lines of motion, and combining and arranging them substantially as herein set forth. 2nd, the combination of the regulator with a tappet, constructed and operated substantially as described, for the purpose specified."

No. 25,937. L. S. Ballon, jr., of New York, N. Y.' for an "Improvement in shirts."

"I claim a shirt formed by having its yoke made of two pointed projections *c*, *c*, extending down from the shoulders or inclined front ends *a* of the yoke on the shoulder blades of the wearer, in such a manner as to leave a recess *d* between the projections, which recess extends upward nearly to the neck band, substantially as and for the purpose set forth."

No. 25,938. Henry A. Barnes, of Milwaukie, Wis., for an "Improvement in railroad car couplings."

"I claim the arrangement of the latch C in the draw head A, in combination with the cam D, latch or hook connection B, lever or treadle G, substantially in the manner as and for the purpose described."

No. 25,939. E. F. Barnes, of Brooklyn, N. Y., for an "Improved method of protecting telegraphic instruments against atmospheric electricity."

"I claim the application and use in a telegraphic line, or in connection with telegraphic instruments of a vessel A, containing acidulated water or fluid, as described, and having a platinum or other metallic wire B of better conductability than the contents of such vessel, passing through such vessel, and connecting by one end with the main wire and by the other with the telegraphic machine, the whole arranged substantially as and for the purposes set forth. I claim also in combination or connection with such vessel or fluid A and wire B, the arrangement of the metallic points *b*, *c*, *d*, on the wire of the main line, and extending in to the fluid in A, substantially as and for the purpose set forth."

No. 25,940. J. Bartholomew, of Union, N. Y., for an "Improvement in machine for packing flour in barrels."

"I claim, 1st, the combination with the packing screw, or its equivalent, of a cylinder, or its equivalent, so that the flour will be first packed within the said cylinder, or its equivalent, and then discharged therefrom in a packed state into a bag, barrel, or other receptacle, as set forth. 2nd, the arrangement of the rod L, levers Q, K, block *l*, connected with the shaft J by the cord or chain *u*, and the hub or boss *k* on screw shaft F, for the purpose of automatically discharging the packed flour from the cylinder or measure M. 3rd, the arrangement of the lever D with pinion E attached, block *l*, hub or boss *k*, levers O, P, and spring *t*, for the purpose of automatically discharging the pinion E from the wheel *d*, and thereby stopping the rotation of the screw G at the proper time."

No. 25,941. Richard L. Bate and James Caulkins, of Adrian, Mich., for an "Improved coffee roaster."

"We claim the combination of the stationary cylindrical chamber, revolving skeleton stirrer, and outer vertical cylindrical casing, all constructed in the manner and for the purposes set forth."

No. 25,942. G. W. R. Bayley, of Brashear, La., for an "Improvement in rails for railroads."

"I claim the reversible Z rail for railways, that is to say, I claim the rail with its stem placed inside of the vertical centre of its head, outside of the vertical centre of its base, with the inner and outer portions of its head, and of its base of different thickness and form, with its head and its base similar in transverse section as to outline, though reversed as to relative position and connection to the rail stem, the stem being nearest to the inside thick lip of the rail head and to the outside thick lip of the rail base, while the thin lip of the rail base is inside and the thin lip of the rail head is outside, substantially as herein described and specified."

No. 25,943. Benjamin G. Beadle, of Memphis, Tenn., for an "Improvement in cotton gins."

"I claim, first, uniting the knuckles or projections *b* on the ribs by a back or brace *c* extending through the series for the purpose of strength, and for keeping them in proper position, substantially as set forth."

No. 25,944. T. G. Beecher, of Beaver Dam, N.Y., for an "Improved farm fence."

"I claim my improved method of construction as shown namely, combining with the posts A, arranged as described, the rails B, made removable and replaceable by means of the locking device *e*, *f*, *g*, substantially as herein specified."

No. 25,945. Wm. H. Bitzer, of Muscatine, Iowa, for an "Improved arrangement of devices in shingle machines."

"I claim the arrangement of the frame Q, and planer R, upon the self-adjusting swinging bar P, and the combination of the parts thus arranged with the pivoted lever U, and reciprocating carriage F, as and for the purpose herein shown and described."

No. 25,946. Wm. G. Budlong, of Hartford, Conn., for an "Improvement in sewing machines."

"I claim the combination of the adjustable groove segment I, with the looper bar J, fitted loosely therein, feeder arrangement P, Q, R, operating rod X, having cams 1, 2, 3, secured thereto, and connected by arms *c*, *d*, *e*, G, the whole being arranged and operating substantially in the manner as and for the purpose described."

No. 25,947. Samuel F. Burdett, of Keokuk, Iowa, and Henry Still, of Leavenworth city, K.T., for an "Improved scale for cutting boots and shoes."

"We claim, first, the lines of average ankle, heel, instep, and ball measures, running from the point 'A' (in figure No. 1, A), or any other given point that will produce the same result, with the lines of increase and decrease intersecting them at such an angle, and at such a distance from each other as will produce the purpose set forth. Secondly, we claim the device of so arranging the heel and instep measures, as in the figures No. 1, B, and No. 2, B, that any required size of said heel and instep may be marked at one stroke, with or without the combination of the average measures of the same. Thirdly, we claim the one third of an inch increase and decrease of average heel measures, upon the different lengths of lasts or such portions of an inch as will produce the same effect substantially as herein set forth."

No. 25,948. Levi Burnell, of Milwaukie, Wis., for an "Improvement in water meters."

"I claim the arrangement of the hollow arbor B, with a narrow slot *j*, in combination with the lips *h*, formed by the inner edges of the buckets D, substantially as and for the purpose specified."

No. 25,949. Robert H. Champlin, of East Greenwich, R. I., for an "Improved washing machine."

"I claim the combination of the rounds or slats and springs with the cylinder, when constructed and operating substantially as herein described."

No. 25,950. Edward C. Clay, of Malden, Mass., for an "Improved electro-magnetic burglar alarm."

"I claim the combination in an electric burglar's alarm of galvanometer, with a resistance coil and an automatic switch for the purpose of indicating the point where a burglar is attempting to effect an entrance substantially as herein described. I claim also the combination in an electric burglar alarm of a galvanometer and a bell, with suitable mechanism for ringing it, for the purpose of simultaneously giving an alarm, and of indicating the place of attack. I claim also, the use in a burglar alarm of a regulating coil, in combination with the resistance coils, substantially as herein described for the purpose of maintaining a constant relation between the strength of the current, and the varying resistance of the circuit when the respective resistance coils are included."

No. 25,951. John Webster Cochran, of New York, N.Y., for an "Improvement in projectile for ordnance."

"I claim constructing and combining the body of the projectile and its shirt or case of soft metal substantially as herein described, to wit, so that the passages for the gases of the exploded powder are formed partly in the body of the projectile and partly in the shirt or case, with their entrances in the shirt or case, without perforating the body of the projectile, and that the shirt can be carried separately from the body, and slipped on when required for use, in such manner as to remain secured thereon during the flight of the projectile as herein set forth."

No. 25,952. Nathan Cope, of Cincinnati, O., for an "Improvement in slide valve of steam engines.

"I claim the combination with the valves B, C, of the grooves *g*, *g*, and notches *h*, *h*, as and for the purposes set forth."

No. 25,953. Thos. Crossley, of Rockville, Conn., for an "Improvement in electrotype printing blocks."

"I claim an electrotype printing block for printing fibrous and textile fabrics, which is prepared from a mould formed of at least three different lengths of type, as represented at *c*, *d*, *e*, so as to have a highly raised printing face, composed of metal margins surrounding a felt or other equivalent ductile or plastic substance, to lift and carry the color, substantially as herein represented."

No. 25,954. Bradford Dean, of Clayville, N. Y., for an "Improved meat slicer."

"I claim the arrangement of the knives I, and I^1, knives D, and D^1, and the adjustable guide B, as shown and described, substantially as and for the purpose specified."

No. 25,955. James Cumming, of Boston, Mass., for an "Improvement in steam engines."

"I claim, 1st, the combination with a square piston chamber A, of a square piston, which is constructed of a series of angular sections of packing D, joined loosely together by lap joints, and made adjustable and kept seam-tight, substantially in the manner and for the purpose set forth. 2nd, in combination with the above, the use of a square piston rod C, and a square stuffing box F, F^1, substantially in the manner and for the purpose set forth."

No. 25,956. John K. Derby, of Jamestown, N. Y., for an "Improved stave jointing machine."

"I claim, 1st, the employment or use of two conical cutter heads B, B, provided with suitable knives C, connected by teeth *d*, or other means, so as to ensure a simultaneous rotation, and placed on frames A, A, connected by hinges or joints *a*, *a*, substantially as and for the purpose set forth. 2nd, the attaching of the knives C, C, to the cutter heads B, B, in reverse positions, so that they will cut from the centres of the staves outward, for the purpose specified."

No. 25,957. George Dieffenbach, of New York, N. Y., for an "Improved method of making a hard compound of rubber."

"I claim the application of artificial heat to a composition of matter, consisting of sulphate of alumina and other ingredients, substantially as described, for the purpose of curing or hardening the said composition, substantially as specified."

No. 25,958. Wm. Doulin, of Youngstown, Ohio, for an "Improvement in hanging carriage bodies."

"What I claim is, in combination with any of the ordinary springs of a carriage, an elliptic spring G, on the reach of the wagon, said elliptic spring being constructed and arranged in the manner and for the purpose herein set forth and explained."

No. 25,959. C. Duckworth, of Hartford, Conn., for an "Improvement in locks."

"I claim the tumblers E, slotted arm D, attached to the bolt B, lever G, or its equivalent, and the key F, provided with lever H, combined and arranged, substantially as and for the purpose set forth."

No. 25,960. J. A. Dufield, of McHenry, Ill., for an "Improvement in harvesters."

"I claim wheels (*a*, *a*) provided with pins (*c*, *c*,) and diamond shaped plates (F, F) in combination with cutter bar (P), shaft (D), wheel (*d*), and lever H, the whole being combined and arranged, in relation to each other, substantially as and for the purpose set forth and described."

No. 25,961. Aaron Eames, of Kalamazor, Mich., for a "Fly trap."

"I claim the combination of the fly-receptacle B, register C, rotating clearer F, bait board H, and gate G, arranged substantially as and for the purpose set forth."

No. 25,962. Thaddeus Fairbanks, of St. Johnsbury, Vt., for an "Improvement in platform scales for railroads, &c."

"I claim the arrangement of the supporting standards, and the loops or supports of the longitudinal levers and platform, with respect to each other, and so as to extend within or into the space between the side timbers of the platform, substantially as specified."

No. 25,963. Wm. A. Fosket and Elliot Savage, of Meriden, Conn., for an "Improvement in sewing machines."

"We claim, firstly, the presser foot, in combination with its spring, and with the needle stock, when so arranged that by the operation of the latter the force of the spring will be taken from the presser foot at the time the feed of cloth is to be given, that is, when the needle is out of the cloth, but without the said presser foot from the cloth, in the manner and for the purpose substantially as described. Secondly, the needle guard, constructed and operating substantially as set forth, in combination with the needle and with the thread carrier or looper. Thirdly, we claim so combining and arranging the double-jointed stock of the thread carrier with the two levers (*o*), and (r^1), as that the said parts shall vibrate in the same plane, and also that the said stock shall form a link between the two levers, which are operated to have their arcs of vibration opposite to each other, where-

by, with the least throw of the said levers, the greatest vibration of the thread carrier is produced."

No. 25,964. James P. Gage, of New York, N. Y., for an "Improvement in mills for crushing and pulverizing quartz, &c."

"I claim, first, the combination of cast rolls upon wrought iron shafts (the rolls cast solid upon the shafts), with the wrought-iron box or frame, the conicals upon the shaft, and the sliding cast-iron journal boxes, arranged and operating for the purposes and in the manner described. 2, I claim the combination of the rollers, the case or frame D, the box L, and the wide shoe, and the diagonal plates, operating in the manner and for the purposes described."

No. 25,965. Wm. Hall, of St. Louis, Mo., for an "Improvement in bran dusters."

"I claim the combination of the flange M, with its arms *t*, and the head *o*, with its scuppers N, with the brushes and fans K and P, substantially as described for the purpose specified."

No. 25,966. C. A. Harper, of Fort Worth, Texas, for an "Improvement in converting reciprocating into rotary motion."

"I claim producing the rotary motion of shaft S^1 and saw C by the reciprocating racks R, R^1, in combination with gear wheel *a*, spring pawls *p*, drum D, shafts S, and wheels B and W, substantially as described."

No. 25,967. John Holroyd, of Washington, D.C., for an "Improvement in projectile for fire-arms."

"I claim constructing the projectile with the reversed curved grooves A and B on the rear and front, substantially as and for the purpose set forth."

No. 25,968. Henry Hudson, of Three Springs, Pa., for an "Improvement in sewing machines."

"I claim the carrying of a self-feeding automatic stitch forming device (like that herein shown and described, or its equivalent,) over the surface of a stretched or stationary fabric, substantially as and for the purpose herein set forth."

No. 25,969. Wm. James, of Baltimore, Md., for an "Improvement in hydrants."

"I claim the movable cylinder (B) and tube (C), when combined with the fixed piston (E) upon the supply pipe (A), and so constructed and arranged in relation to the supply pipe that its elevation shall open a direct communication with the main, in the manner and for the purposes specified."

No. 25,970. A. Livingston Johnson, of Baltimore, Md., for an "Improvement in machines for preventing engines and railroad cars from being thrown from the track."

"I claim, in combination with a locomotive and a pioneer safety car in advance of it the bars A, fastened to one and extending into loops or mortises in the other, to prevent the lighter car from leaving the track, or one from mounting or riding one on the other, in case of accident or sudden stoppage, substantially as described. I also claim, in combination with the locomotive and pioneer safety car, an advange of the link or drag bar B, so connected thereto as that the propelling force transmitted through it shall tend to hold the forward part of the safety car to the track, substantially as described."

No. 25,971. Geo. W. La Baw, of Jersey City, N.J., for an "Improved life boat."

"I claim the arrangement of ribs D, with the main rib K, and keel E, and cut waters I, I, the whole being constructed substantially, as and for the purpose specified."

No. 25,972. Sylvester Littlefield, of Alfred, Maine, for an "Improvement in sawing machines."

"I claim, first, combining with a circular saw A, on a vibrating adjustable arm D, an auxiliary saw G, substantially as and for the purpose described. Second, arranging an arm B, with two guides C, in such a manner that it vibrates on the arbor of the saw, and that it can be raised and lowered instantaneously, substantially as and for the purpose described."

No. 25,973. I. I. Magee, of Fernandina, Florida, for an "Improved machine for unloading vessels."

"I claim the arrangement of the frames A and H, with rollers C and I, and with screws G and J, or their equivalents, substantially as and for the purpose specified."

No. 25,974. C. K. Marshall, of Vicksburgh, Mass., for an "Apparatus for printing addresses on newspapers, &c."

"I claim, 1st, a chain of plates, or solid links, having characters of the description substantially as described, placed, cut, or set into the face of its links, and arranged to wind in scrolls on to one pulley or roller from another, substantially as and for the purposes herein set forth. 2nd, the combination of the above with an inking device, which supplies the characters made on the faces of its links with ink, and with a stamping device, which will cause the respective links of the chain as they come into play, to produce a clear impression upon the article being directed or superscribed, substantially as and for the purposes set forth. 3rd, the employment of an inclined hopper, having openings in its bottom and furnished with a spring stop, in combination with the revolving bulk feeding arms, substantially as and for the purpose set forth." 4th, the combination with the features embraced in the 3rd claim of the raking, single feeding device, substantially as and for the purposes herein described. 5th, the use of the scroll winding post office indicating belt with the superscribing chain, or other superscribing device, substantially as and for the purposes set forth. 6th, the manner, substantially as described, of effecting a combination between said belt and chain. 7th, the combination of the features embraced in the 5th claim, with the 'mail' assorting box, substantially as and for the purpose set forth. 8th, the use of the slate indicating belt, with the post office indicating belt, and with a superscribing device, substantially as and for the purpose set forth. 9th, the organization of an apparatus, by means, substantially as described, for accomplishing by one continuous operation, the several results herein specified."

No. 25,975. John Mayrhofer, of New York, N.Y., for an "Improvement in process of preparing paper pulp."

"What I claim, in making paper, impervious to water, is mixing the alkaline solution of rosin with the pulp, and then adding what is known as English sulphuric acid, and after the sheets have been formed, drying them by contact with heated metallic surfaces, all substantially as and for the purposes specified."

No. 25,976. Caesar Newmann, of New York, N.Y., for an "Improvement in skeleton hoop skirts."

"I claim combining a series of spring hoops, as herein set forth, by means of a series of twisted cord, and thus forming a skeleton skirt, as above specified."

No. 25,977. John S. McClure, of Mobile, Ala., for a "Method of mounting ambrotypes."

"I claim the employment of a concave back ground, or surface D, in combination with an ambrotype picture, substantially as and for the purposes herein shown and described."

No. 25,978. J. E. Palmer, of St. Louis, Mo., for an "Improved tackle block."

"I claim the form of the block in the inside, and the form of the pulley, when the two are combined and arranged, substantially as described, for the purpose specified."

No. 25,979. John W. Palmer, of Port Republic, Va., for an "Improvement in bee hives."

"I claim providing the within-described bee hives, with one or more partitions (I), with opening *a*, *m*, e^1, *c*, and *g*, g^1, and with feed boxes (*c*), which contain separating boxes D, constructed substantially as described, the whole being arranged and used in the manner and for the purpose set forth."

No. 25,980. Walter Ralston, of Manchester, England, for an "Improvement in embossing and finishing woven fabrics."—Patented in England, 23rd November, 1858.

"I claim the employment of grooved, fluted, engraved, milled, or otherwise indented rollers of metal, wood, or other suitable material, driven at a greater speed than the boul or bowls connected with them, so as to exert a rubbing or friction upon the fabric submitted to their action, and thereby produce an indefinite variety of pattern as well as a bright finish or lustre, and also reversing the operation by giving the bowl a quicker motion than the pattern roller."

No. 25,981. Charles E. Rowan, of New York, N. Y., for an "Improvement in machines for polishing rice."

"I claim, 1st, the combination of the conductors H, H^1, when constructed substantially as described, and secured

within a loose wire-cloth cylinder A, with the scouring disks G, G[1], G[11], constructed substantially as shown, and secured to the driving shaft B, as set forth, so that the friction of the grain will cause the cylinder A to revolve and lift and deliver the grain through the machine, all as herein specified. 2nd, in combination with the parts above described, I claim the tubes k^* and openings (*l*), (*m*), arranged as shown, so that the dust may escape, and air may enter to cool the contents of the cylinder A during the scouring operation. 3rd, I claim placing the feeding screw E upon the same shaft B that carries the scouring disks G, G[1], G[11], as set forth."

No. 25,982. Wm. R. Satterly, of Setauket, N. Y., for an "Improvement in reefing fore-and-aft sails."

"I claim the combination with and above the triangular sail G of another triangular sail H which has a boom C attached to it, so that when the two sails and boom are put together they form the ordinary fore-and-aft sail, operating in the usual manner, but when the sail H and its attached boom C are removed, as described, the small triangular sail G remains, all substantially as set forth."

No. 25,983. Nathaniel Snow, jr., of Boston, Mass., for an "Improved steering apparatus."

"I claim the above-described steering apparatus, consisting essentially of the wheel I, pinion G, rods D, and yoke C, arranged and operating substantially as described."

No. 25,984. N. Spofford, of Haverhill, Mass., for an "Improved bit stock."

"I claim arranging the socket A of a brace with a slot *a*, as described, in combination with a thumb screw *b* and projections *d*, or their equivalents, substantially as and for the purpose specified."

No. 25,985. E. N. Sprinkle, of Marion, Va., for an "Improved churn."

"I claim, as an improvement on the churn patented to Hatfield and Goldsmith on the 13th of July, 1858, the combination of the perforated obliquely-arranged dashers *c*, *c*, *c*, with the single inclined stationary guard F, substantially as and for the purposes set forth."

No. 25,986. Robert Steel, of Philadelphia, Pa., for an "Improvement in the construction of burners for vapor lamps."

"I claim the combination of a metallic gas generating chamber and burner, applicable to a lamp, chandelier, or other gas fixture, for the purpose of generating vapor or gas from burning fluid, and consuming the same as fast as it is generated, thereby producing a superior artificial gas light, as is described, and particularly set forth in the specification."

No. 25,987. John G. Treadwell, of Albany, N. Y., for an "Improvement in stoves."

"I claim providing the door (H) with an inclined projection (*a*) on one side, and a hinged rack bar (*d*) on the other, when said door is used in connection with the cross bar (*c*) and with the damper (D), as constructed, the whole being arranged and operated substantially as and for the purpose described."

No. 25,988. George Whitcomb, of Springfield, O., for an "Improvement in mole ploughs."

"I claim the construction of a flexible mold by the combination of sections which are not attached to each other, but by being held in place by the chains (J), or its equivalent, as set forth."

No. 25,989. Luke H. Ward, of Marlboro', Mass., for an "Improvement in pegging machines."

"I claim the particular arrangement and combination of the feeding apparatus, consisting of the levers R, Q, and O, spring P, and wheels N, L, in connection with the lever U, and its stud I, and the awl and driver operated by the levers W and X, in connection with the peg feeding apparatus and pivoted saw for cutting off the pegs, when constructed and operating as above set forth and described."

No. 25,990. Simeon Wood, of Worcester, Mass., for an "Improved auger."

"I claim the combination of the chipping bit or bits with a band or hook, having teeth or cutters on its bottom edge, substantially as and for the purpose set forth."

No. 25,991. R. F. Wolcott, of Claremont, N. H., for an "Improvement in platform scales."

"I claim, 1st, the combination of the two graduated wheels Q, R, screw *s*, and bar *r*, arranged substantially as and for the purpose set forth. 2nd, attaching the lever I to the platform B, levers H, H, and rod J, when the above parts are arranged to operate, as described. 3rd, the construction and arrangement of the fulcrum arms *g* of the shaft D, projections *b*, and plates *e*, of the hangers C, and the plates G, *l*, of the beams F, F, substantially as and for the purpose set forth."

No. 25,992. Jean Louis Baudelot, of Harencourt, France, assignor to Henry Migeon, of Wolcottsville, Conn., for an "Improvement in apparatus for cooling liquids."—Patented in France, 13th April, 1856.

"I claim a cooling apparatus for liquids composed of a vertical range of pipes passing the liquid successively from the lower to the upper pipes in said range, in combination with the perforated trough (*d*), or its equivalent, supplying the other liquid which trickles over the surface of said range of pipes, as set forth. I also claim in such a cooling apparatus a series of teeth or projections on the under side of the horizontal pipes, for the purpose of conducting or distributing the liquid falling successively from one pipe to the other, substantially as specified."

No. 25,993. Edward Behr and L. Froelich, of New York, N. Y., assignors to Edward Behr aforesaid, for an "Improvement in skate straps."

"We claim the rod F fitted longitudinally in the stock A, provided with screw sections *c*, *j*, with cylinders E, H, fitted thereon, and one end of the heel and toe straps D, G, attached to said cylinders, the latter being provided with the ratches *d*, *k*, into which the pawls *e*, *l*, catch, substantially as and for the purpose set forth."

No. 25,994. Thos. Bishop, of Plainville, Conn., assignor to himself and James M. Bishop, of same place, for an "Improvement in tea and coffee pots."

"I claim the arrangement of the area E, flanges X, upon the lid G, with the apertures F and D, in the manner as and for the purpose described."

No. 25,995. D. G. Chase, of Boston, Mass., assignor to George Parr, of Buffalo, N. Y., for an "Improved shank laster."

"I claim the jointed cross bars A, A, provided with the swivel jaws E, E, and swivel nuts *a*, *a*, in connection with the right and left screw shaft C, the whole being arranged substantially as and for the purpose set forth."

No. 25,996. John Colville, of Wilmington, N.C., assignor to himself and T. L. Colville, of same place, for an "Improved method of adjusting circular saws."

"I claim the expansion ring or plate of copper G, or any other suitable metal capable of being expanded for setting or adjusting the saw properly upon the shaft at any given point or points, when the same is interposed between the saw and fixed collar, as set forth."

No. 25,997. Wm. Elwell, of Gardiner, Me., assignor to himself and N. O. Mitchell, of same place, for a "Fly-trap."

"I claim the two boxes A, A[1], of a quadrangular or other shape, provided with sliding glass tops and sliding bottom G, in combination with the perforations B, surrounded with projecting pins for the purposes, and when the same are all arranged in the manner herein set forth."

No. 25,998. John A. Evarts, of West Meriden, Conn., assignor to Homer Curtis, of same place, for "Improved cast metal pulleys."

"I claim forming the core D, of the shell B, by covering the wheel A with the sand *b*, and having the hole *c*, made through the core, so that in casting the shell, the pintle or axis E of the wheel will be cast, simultaneously with the shell, and the wheel, when the sand *b* is removed, be properly adjusted within the shell, substantially as described."

No. 25,999. JOHN JEWELL FLANDERS, of Manchester, N.H., assignor to himself and E. G. W. Bartlett, of same place, for an "Improvement in rotary pumps."

"I claim the combination of the revolving annular inverted gear, the pinion S, and stationary crescent U, the whole being arranged to operate in the case, substantially as described, for the purposes set forth."

No. 26,000. H. K. SYMMES, of Newton, Mass., assignor to himself and R. W. Holman, of same place, for an "Improvement in apparatus for manufacture of coal oil."

"I claim, 1st, an oil retort A, in combination with the gas retort D, or its equivalent, for the purpose of saving the gas which escapes from the oil retort, and to improve its quality, substantially as herein specified. 2nd, in combination with the two retorts A and D, I claim the pump G^1, or its equivalent, for the purpose of imparting to the gas the necessary pressure, substantially as set forth."

No. 26,001. ISAAC GOODSPEED, of Norwich, Conn., assignor to himself and George A. Mansfield, of Boston, Mass., for a "Pocket alarm."

"I claim in the pocket thief and burglar alarm, constructed in the form and manner represented and described. I claim the combination and arrangement of the independent lever K, adapted to cap and cock the alarm, and while both the cap tube and hammer are arranged within, and do not project outside the shell or case."

No. 26,002. STEPHEN H. HEAD, of Boston, Mass., assignor to himself and Wm. P. Parrott, of same place, for an "Improvement in steam boilers."

"I claim, in combination with the furnaces B, C, and the lateral passage E, and damper *e*, chamber F, located at the front of the furnaces, and between them and the flues, for the purpose and in the manner substantially as herein set forth."

No. 26,003. GEORGE M. PHELPS, of Troy, N.Y., assignor to the American Telegraph Company, for an "Improvement in telegraphic machines."

"I claim, first, producing from a magneto-electric battery, the momentary electric currents required for actuating the printing mechanism, by giving momentary motion to the armature, or other current, inducing part of the magneto-electric battery, by means of a set of finger-keys, which, when depressed are controlled in their action, upon the current, inducing part of the magneto-electric battery, by a mechanical contrivance, which constantly moves in harmony with the unintermittingly revolving type wheel, substantially as herein described. I also claim increasing the capability of the instruments for telegraphing, by so increasing the speed of the transmitting device and type wheel, in relation to the motion of the parts which perform the printing, that two or more types shall pass the platen, while the printing mechanism is acting once, as herein described. I also claim turning the cylindrical platen, while each impression is being made, by means of rings of teeth R and T, upon the type-wheel and platen, as and for the purpose herein set forth. And, finally, I claim making a revolving wheel or shaft U or *i*, turn the corrector M, armature C, or another wheel or shaft, a certain fixed distance, with the same speed as itself at any time and any desired number of times, by the use of a ratchet wheel V or *h*, catch W or *f*, guide X or *k*, and detent K or *e*, all arranged together, and with the said driving and driven wheel or shaft for conjoint operation, as herein set forth."

No. 26,004. CHAS. A. GAGE, of Boston, Mass., assignor to Albert S. Hall, of Malden, Mass, and A. R. Davis, of Cambridge, Mass., for an "Improved clothes dryer."

"I claim the combination, substantially as described, of the mantel or shelf, and the folding slats, arranged and operating as set forth, for the objects specified."

RE-ISSUES.

WILLIAM M. GRIFFITH and Company, of Martin's Ferry, Ohio, assignees of William. H. Orr, of said Martin's Ferry, for an "Improvement in machines for cleaning grain."—Patented 13th July, 1858.—Re-issued 1st November, 1859.

"We claim the arrangement and application of the stirrer K, in the described relation to the riddle or shoe of a grain separating machine, operating in the manner and for the purpose set forth."

E. K. ROOT, of Hartford, Conn,, for an "Improvement in revolving fire arms."—Patented 25th December, 1855.—Re-issued 1st November, 1859.

"I claim combining the driving pin that works in the grooves to rotate and hold the breech in line with a slide below, adapted to the reception of and to be operated by the trigger finger, and acting on the lock at the end of the back motion, to liberate the cock or hammer, discharge the load, substantially as described. And I also claim, combining the plunger with the many-chambered rotating breech-pistol, or other fire-arm, by means of a lever with a cogged sector engaging the cogs of a straight rack, substantially as and for the purpose specified."

DESIGNS.

CHARLES T. FOOT, of Bristol, Conn., for a "Design for clock cases."

"I claim the design for a clock case, as herein above illustrated and set forth."

THOMAS HARDGROVE and SAMUEL HARDGROVE, of Richmond, Va., for a "Design for a trade mark."

"We claim the within design of picture to be affixed to our wares and manufactures, and to be designated as the peach brand."

ALLEN LEONARD, of Hartford, Conn., for a "Design for a base for castors."

"I claim the shape and configuration as described."

ALLEN LEONARD, of Hartford, Conn., for a "Design for castor handles."

"I claim the configuration of, or tasteful and artistical wrought figure for an ornamental design for a handle or lift, substantially as described, for a castor, &c."

WM. H. LEWIS, of Glastenbury, Conn., for a "Design for fork or spoon handles."

"I claim the configuration and ornamentation, the shield, the urn, or vase, the strawberry fruit, vine, and foliage combined as described to produce an ornamental design for a handle."

GARRETTSON SMITH and HENRY BROWN, of Philadelphia, Pa., assignors to Cox, Whitman, and Cox, of same place, for a "Design for stoves."

"We claim the design and configuration in bass-relief on the ornamental castings for a stove design, as above set forth, and represented by the annexed drawing."

LIST of SPECIFICATIONS published during the week ending 18th November, 1859.

No.	Price.	SUBJECT-MATTER.
900	3*d.*	Effervescing lemonade.
901	3*d.*	Furnaces.
902	3*d.*	Manufacture of soap.
903	3*d.*	Preparation for killing beetles.
904	3*d.*	Keels of vessels.
905	6*d.*	Spinning.
906	6*d.*	Candle moulds.
907	7*d.*	Loading ships or vessels with coal, &c.
909	3*d.*	Manufacture of cop tubes.
911	9*d.*	Gas lamps.
912	5*d.*	Taps.
913	3*d.*	Seed drills.

LIST of SPECIFICATIONS—*continued.*

No.	Price.	SUBJECT-MATTER.
914	3*d.*	Ventilator.
915	3*d.*	Manufacture of iron.
916	5*d.*	Weaving double pile fabrics.
917	3*d.*	Apparatus for screening corn and seed.
918	1*s.*	Metallic bridges.
919	10*d.*	Boots and shoes.
920	3*d.*	Working fly presses.
921	3*d.*	Preparation of red dyes.
922	3*d.*	Treating and dyeing silk.
923	8*d.*	Carriages for common roads.
925	3*d.*	Lamp regulator.
926	7*d.*	Agricultural implements.
927	3*d.*	Fulling machine.
928	3*d.*	Pinafores and bibs.
929	6*d.*	Instrument for damping, silvering, and affixing stamps.
930	7*d.*	Apparatus for heating liquids.
931	3*d.*	Axles for railway and other carriages.
932	6*d.*	Fire grates for locomotive, marine, and other furnaces.
933	1*s.* 4*d.*	Manufacture of tin and terne plates.
934	10*d.*	Mill for reducing bones, &c.
935	6*d.*	Apparatus for cooling liquids.
936	6*d.*	Application of nuts for the manufacture of pickers for looms, drawing rollers, steps and bushes.
937	3*d.*	Steam engines.
938	10*d.*	Guide rails, &c., for locomotive engines and carriages.
939	6*d.*	Manufacture of axle boxes.
940	3*d.*	Retarding and stopping railway locomotives and trains.
941	3*d.*	Weighing machines.
942	7*d.*	Electric telegraph cables, &c.
943	3*d.*	Coating metallic surfaces.
944	3*d.*	Billiard tables.
945	4*d.*	Manufacture of umbrellas, parasols, &c.
946	1*s.* 7*d.*	Extensible archin plane.
947	3*d.*	Buffers.
948	7*d.*	Manufacture of angle iron.
949	3*d.*	Working presses and other hydraulic machines.
950	3*d.*	Treating the pelts or skins of sheep, &c.
951	3*d.*	Insulating wire for electric telegraphs.
952	6*d.*	Fastening for trunks, boxes, articles of dress, &c.
953	3*d.*	Liquor, cruet, and other stands.
954	6*d.*	Variable circular motion for slotting, shaping, and planing machines.
955	3*d.*	Feeding apparatus for grain, sugar, &c.
956	1*s.*	Apparatus for separating metals from their ores, &c.
957	5*d.*	Manufacture of alumina.
958	10*d.*	Apparatus for regulating prime movers driven by water.
959	3*d.*	Obtaining metallic particles from the fumes or vapours of smelting works.
960	6*d.*	Looms for weaving.
961	10*d.*	Cop tubes for spinning machines.
963	3*d.*	Machinery for obtaining motive power.
964	3*d.*	Fog horns.
965	3*d.*	Rocket guns.
966	3*d.*	Compound liquid for illuminating.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Accrington (*Mechanics' Institution, Bank Street*).
Belfast (*Harbour Office, Corporation Square*).
Beverley (*Guildhall*).
Birmingham (*Birmingham and Midland Institute, Cannon Street*).
Bolton-le-Moors (*Public Library, Exchange Buildings*).
Bradford, Yorkshire (*Borough Accountant's Office, Corporation Buildings, Swain Street*).
Brighton (*Town Hall*).
Bristol (*City Library, King Street*).
Burnley (*Office of the Burnley Improvement Commissioners*).
Cambridge (*Free Library, Jesus Lane*).
Canterbury (*Municipal Museum, Guildhall Street*).
Carlisle (*Free Library, Police Office*).
Chester (*Town Hall, Northgate Street*).
Cork (*Royal Cork Institution, Nelson Place*).
Crewe (*Railway Station*).
Darlington (*Mechanics' Institute, Skinnergate*).
Dorchester.
Drogheda.
Dublin (*Royal Dublin Society, Kildare Street*).
Dundalk.
Falmouth (*Public Library, Church Street*).
Gateshead (*Mechanics' Institute*).
Gorton (*Railway Station*).
Glasgow (*Stirling's Library, Miller Street*).
Grimsby, Great (*Mechanics' Institution, Victoria Street*).
Hanley, Staffordshire Potteries (*Town Hall*).
Hartlepool, West (*Literary and Mechanics' Institution, Church Street*).
Hertford (*Public Library, Town Hall*).
Huddersfield (*Commissioners' Offices, No. 1, South Parade*).
Hull (*Mechanics' Institute, George Street*).
Ipswich (*Museum Library, Museum Street*).
Keighley (*Mechanics' Institute, North Street*).
Kidderminster (*Public Free Library, Public Buildings, Vicar Street*).
Kings' Lynn, Norfolk (*Stanley Library, Athenæum*).
Lancaster (*Mechanics' Institute, Market Street*).
Leamington Priors (*Public Library, Town Hall*).
Leeds (*Town Clerk's Office, Town Hall*).
Leicester (*Corporation Library, Town Hall*).
Limerick
Liverpool (*Free Public Library, Duke Street*).
——— (*Royal Institution*).
London (*British Museum*).
——— (*Society of Arts, John Street, Adelphi*).
Macclesfield (*Useful Knowledge Society*).
Maidstone.
Manchester (*Chetham Hospital*).
——— (*Free Library, Camp Field*).
Montrose.
Newark, Nottingham (*Mechanics' Institute, Middle Gate*).
Newcastle-upon-Tyne (*Literary and Philosophical Society*).
Newport, Monmouth (*Commercial Room, Town Hall*)
Northampton.
Norwich (*Free Library, St. John's, Maddermarket*).
Nottingham (*Corporation Rooms, St. Peter's Church side*).
Oxford (*Public Free Library Town Hall*).
Paisley (*Government School of Designs, Gilmour Street*).
Plymouth (*Mechanics' Institute, Princess Square*).
Preston (*Dr. Shepherd's Library, the Institution, Avenham*).
Reading (*Literary, Scientific and Mechanics' Institution, London Street*).
Rochdale (*Commissioners Room, Smith Street*).
Rotherham (*Board of Health Offices, Howard Street*).
Salford (*Peel Park*).
Sheffield (*Free Library, Surrey Street*).
Shrewsbury (*The Public Museum, College Street*).
Southampton (*Corporation Library, Audit House*).
Stirling (*Burgh Library, Town House, Broad Street*).
Stockport (*Court House, Vernon Street, Warren Street*).
Sunderland (*Corporation Museum, Athenæum, Fawcett Street*).
Tiverton.
Wakefield (*Mechanics' Institution, Barston Square*).
Warrington (*The Museum and Library*).
Waterford (*Town Hall, The Mall*).
Wednesbury (*Board of Health Offices*).
Wexford (*Mechanics' Institute, Crescent Quay*).
Wigan.
Wolverhampton (*School of Practical Art, Darlington Street*).
Wolverton (*Railway Station*).
Yarmouth, Norfolk (*Public Library, South Quay*).
York (*Lower Council Chamber, Guildhall*).

The Commissioners' publications have also been presented to the following Public Offices, Seats of Learning, British Colonies, and Foreign States:—

Public Offices, Institutions, &c.

Admiralty, Department of the Surveyor of the Navy.
——— Steam Branch.
——— Deptford Dockyard.
——— Woolwich ditto.
——— Chatham ditto.
——— Sheerness ditto.
——— Portsmouth ditto.
——— Devonport ditto.
——— Pembroke ditto.
Artillery Institute, Woolwich.
Board of Trade, Whitehall.
Ordnance Office, Pall Mall.
——— Small Arms Factory, Enfield.
War Office, Pall Mall.
Government School of Mines, &c., Jermyn St., Piccadilly.
Dublin Castle, Dublin.
Rolls Office, Chancery (Four Courts), Dublin.
Office of Chancery, Edinburgh.
East India House, Military Stores, Leadenhall Street.
Incorporated Law Society Chancery Lane, London.

Seats of Learning.

Cambridge University.
Trinity College, Dublin.
Queen's College, Galway.
University College, London.

British Colonies.

Malta.
Cape of Good Hope.
Mauritius.
India—Bengal.
North-West Provinces.
Madras.
Bombay.
Ceylon.
Victoria—Patent Office, Melbourne.
Parliamentary Library, Melbourne.
New South Wales.
South Australia.
Tasmania.
New Zealand.
Newfoundland.
Canada—Quebec.
Toronto.
New Brunswick.
Prince Edward Island.
Antigua.
Barbados.
Jamaica.
Trinidad.
British Guiana.

Foreign States.

Austria—Handels Ministerium, Vienna.
Bavaria—Königliche Bibliothek, Munich.
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France—Bibliothèque Impériale, Conservatoire des Arts et Métiers, Hôtel de Ville. } Paris.
Gotha—Ducal Friedenstein Collection.
Hanover—Ministerium des Innern, Hanover.
Netherlands—Ministère de l'Intérieur, The Hague.
Prussia—Handels Ministerium, Berlin.
Russia—Bibliothèque Impériale, St. Petersburg.
Sardinia—Ufficio delle Privative, Turin
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Mornings - - - -	755
Evenings - - - -	786
Total - - -	1541

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B. WOODCROFT.

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THE

COMMISSIONERS OF PATENTS' JOURNAL,

By Authority.

(*Registered for transmission abroad.*)

No. 615. FRIDAY, NOVEMBER 25, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1861. To LOUIS ANTOINE POSSOZ, of No. 37, Rue de Rivoli, in the city Paris, in the empire of France, Chemist, for the invention of "Improvements in the manufacture and baking of sugars."

On his petition, recorded in the Office of the Commissioners on the 12th day of August, 1859.

2359. To ROBERT SMITH, of Islington, in the borough of Finsbury, Shipowner, for the invention of "The purification of water and other fluids."

On his petition, recorded in the Office of the Commissioners on the 15th day of October, 1859.

2435. To GERMAIN CANOUIL, of 93, Curtain Road, Shoreditch, in the county of Middlesex, Chemist, for the invention of "New machinery for priming percussion caps without danger of explosion, also a new fulminate not hitherto employed."

On his petition, recorded in the office of the Commissioners on the 25th day of October, 1859.

2494. To BENJAMIN BROWNE, of No. 52, King William Street, in the city of London, Civil Engineer, and Patent Agent, for the invention of "A self-heating ironing apparatus."—A communication from abroad by Charles Jean Eugene Baptiste Cailloüé, of Paris, Barrister.

2496. And to RICHARD HEINRICH HESS, of Newton Street, Hoxton, in the county of Middlesex, Engineer, for the invention of "Improvements in gas burners."

On both their petitions, recorded in the Office of the Commissioners on the 2nd day of November, 1859.

2498. To JAMES LEEMING, of Bradford, in the county of York, Machine Maker, and JOHN CARTER RAMSDEN, of the same place, Manufacturer, for the invention of "Improvements in looms for weaving."

2502. To WILLIAM WILSON, of Newcastle-upon-Tyne, Hat Manufacturer, for the invention of "Improvements in machinery for the manufacture of felted fabrics, suitable for the bodies of hats, caps, and bonnets."

2504. And to JOHN HOWARD, of Fenchurch Street, in the city of London, Merchant, for the invention of "Improved machinery for moulding hollow bricks and tubular articles."—A communication from abroad by M. Becherer and C. Kesseler, of Greisswald, in the kingdom of Prussia.

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of November, 1859.

2506. To ASPULL BINCKES, of Cornbury Place, Old Kent Road, in the county of Surrey, for the invention of "Improvements in optical instruments."

2508. To GEORGE NICHOLAS BULLER, of No. 28, Bartlett's Buildings, Holborn, Wholesale Jeweller, for the invention of "An improved mode or method of ornamenting articles composed wholly or partially of jet."

2510. To JOSEPH ALEXANDER MAXWELL, of No. 53, Chancery Lane, in the county of Middlesex, Gentleman, for the invention of "Improvements in hydraulic engines to act either alone or in combination with steam and steam engines."

2512. To FREDERICK HALE HOLMES, of Northfleet, in the county of Kent, Professor of Natural Philosophy, for the invention of "Improvements in apparatus for transmitting light."

2514. To ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in type setting

and distributing apparatus."—A communication from abroad by Thomas Walker Gilmer, of Virginia, in the United States of America, administrator of John Baker Gilmer, deceased.

2516. To WILLIAM HILL, of Coombe Haye, near Bath, in the county of Somerset, for the invention of "Improvements in lightening conductors."

2518. And to JAMES CHESTERMAN, of Sheffield, in the county of York, Manufacturer, for the invention of "New and improved methods of and furnace for heating, hardening, and tempering clock springs, watch springs, band saws, steel for dresses, such as crinoline steel, and other like purposes."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of November, 1859.

2520. To COLIN MACKENZIE, of Stornoway, in the county of Ross, North Britain, Barrel Manufacturer, for the invention of "Improvements in machinery or apparatus for cutting and dressing staves for casks, barrels, and other wooden vessels."

2522. To FRANCIS PICHLER, of No. 162, Great Portland Street, Oxford Street, and HENRY JOHN WIGLEY, of No. 5, Gloucester Place, Gloucester Gate, Regent's Park, both in the county of Middlesex, for the invention of "The arrangement and construction of wheeled carriages or other vehicles or machines, in such manner that the occupant or occupants thereof may propel the same by alternating the weight of the person or persons riding."

2524. To GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, for the invention of "Improvements in machinery for grinding and polishing sheets of plate and other glass."—A communication from abroad by J. J. Greenough, of Wall Street, New York.

2526. And to WILLIAM MANNIX, of Wolverhampton, M.D., for the invention of "Improvements in the manufacture of manure."

On their several petitions, recorded in the office of the Commissioners on the 5th day of November, 1859.

2528. To ANDREW LINMERE DOWIE, of Glasgow, in the county of Lanark, North Britain, Merchant, for the invention of "Improvements in effecting communications or signalling between distant or distinct parts of railway trains."

2530. To GEORGE PACEY, Coach Builder and Harness Manufacturer, of No. 2, Waterloo Street, and Upper Priory, Birmingham, for the invention of "A rein handle and holder applicable for riding or driving, either for single, double, or team reins."

2532. To HENRY BARKER, of Hastings, in the county of Sussex, Tobacco and Cigar Dealer, for the invention of "An improvement in clay, meerschaum, and other pipes."

2536. And to ARCHIBALD TEMPLETON, of No. 7, Skinner Street, in the city of London, and JOHN LAWSON, of Glasgow, for the invention of "Improvements in the manufacture of chenille or like fabrics suitable to be used in woven and other ornamental piled fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of November, 1859.

2540. To JOHN THOMSON, of Dundee, in the county of Forfar, Manufacturer, for the invention of "Improvements in the manufacture or production of Brussels and velvet pile carpet fabrics and hearth rugs."

2542. To JOHN HENRY JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in watches or timekeepers."—A communication from abroad by Merrick Price, of Philadelphia, in the United States of America.

2544. And to THOMAS SAMUEL BOTTOM, of Park Terrace, Old Ford, in the county of Middlesex, Chenille Manufacturer, for the invention of "Improvements in the manufacture of chenille."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of November, 1859.

2546. To JOB HAMER, of Longsight, in the parish of Manchester, and county of Lancaster, Mercantile Clerk, for the invention of "An improved material for insulating the wires of electric telegraphs, for lining articles of dress, for covering clothing, casing or lining steam boilers, pipes, cylinders, and other vessels, conduits, or chambers, and for other similar purposes, to which the said material is or may be applicable as a non-conductor, for preventing or diminishing the transmission of heat or of the electric fluid."

2548. To DAVID FULTON, of Glasgow, in the county of Lanark, North Britain, Engraver to Calico Printers, for the invention of "Improvements in cylinders or rollers for printing and other purposes."

2550. To GEORGE SPILL and DANIEL SPILL, both of Stepney Green, in the county of Middlesex, Manufacturers, for the invention of "An improvement in the manufacture of bands for driving machinery, and for various other purposes."

2552. And to WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in the construction and application of electric telegraph wires or conductors."—A communication from abroad by Mr. E. D. Rosencrantz, of New York, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 9th day of November, 1859.

2554. To JOHN EDWARDS, of No. 77, Aldermanbury, in the city of London, and JOHN SKIRROW WRIGHT, of Birmingham, in the county of Warwick, for the invention of "Improvements in the manufacture of buttons."

2556. To JOHN TENWICK, of Clarendon Street, Albion Foundry, Portsmouth, Hampshire, for the invention of "Improvements in the construction of street gutters."

2560. And to WILLIAM FLETCHER, of Kilburn, in the county of Derby, Framework Knitter, for the invention of "Improvements in machinery for making looped fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of November, 1859.

2562. To FREDERICK DECASTRO JONES, of No. 29, Tavistock Street, Covent Garden, in the county of

Middlesex, for the invention of "A weaver's loom with combs opened at the summit, and with moveable floating chains."—A communication from abroad by Paul Gadrat, of 48 bis, Rue Basse du Rempart, Paris.

2563. To Thomas Blinkhorn, of Spalding, in the county of Lincoln, Engineer, for the invention of "Improvements in pumps."

2564. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "The preparation of a salt and means of combining, mixing, or applying the same to render fabrics, pulp, wood, oil, and other substances uninflammable."—A communication from abroad by Messieurs Demangeot and Co., of Paris.

2565. To Richard Archibald Brooman, of No. 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "An improved method of preparing plates and cylinders for printing from."—A communication from abroad by Jules Michel Isidore Melotte and Charles Jules Thiesset, of Paris.

2566. And to Augustin Jacquelain, of Paris, in the French empire, Chemist, for the invention of "Improvements in the manufacture of carbon, and in apparatus employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 11th day of November, 1859.

2567. To Richard Lansdale, of Pendleton, near Manchester, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for washing and cleansing fabrics, which improvements are also applicable to churning."

2568. To William Burgess, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Implement Makers, for the invention of "An improvement in mowing and reaping machines."

2569. To John Scott, of Sunderland, in the county of Durham, Anchor Smith, for the invention of "An improvement in anchors."

2570. To Archibald Vickers, of the city of Bristol, Cotton Spinner, for the invention of "A method of opening and shutting two or four gates or doors simultaneously, and for fastening the same when either open or shut, applicable to railway crossings and other purposes."

2571. To Charles Norrington, of Green Bank, Plymouth, Merchant, for the invention of "Improvements in the protection of ships or vessels, forts or batteries, from cannon shot, shell, or any other projectile."

2573. And to Elizabeth Ann Sellon Burgess-Burgess, of No. 107, Strand, in the county of Middlesex, for the invention of "Improvements in the preparation of anchovies."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of November, 1859.

2575. To Peter Graham, of Oxford Street, in the county of Middlesex, for the invention of "Improvements in machinery or apparatus for cutting wood."

2576. To Augustus Applegath, of Dartford, in the county of Kent, Engineer, for the invention of "Improvements in surface block printing."

2577. To John Madin, of Fitzwilliam Street, Sheffield, in the county of York, Contractor, for the invention of "Improvements in furnaces and appliances connected therewith, for hardening and tempering crinoline or sheet steel, and measuring the same."

2578. To James Walworth and Robert Harrowby, of Bradford, in the county of York, Machine Makers, for the invention of "Improvements in smut machines or corn screens."

2579. To Joseph and Gustav Goldberg, both of Manchester, in the county of Lancaster, Manufacturers, for the invention of "Certain improvements in the construction of purses or 'portmonnaies,' and in an improved lock or fastening applicable to purses, bags, or other similar receptacles."

2580. To Alexander Robert Arrott, of Saint Helens, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture of carbonate of soda."

2581. To Charles Henry Brooks, of Great George Street, in the city of Westminster, Engineer, for the invention of "Improvements in apparatuses for paying out and hauling in telegraph cables."

2582. And to James Holgate, of No. 33, Great Dover Street, in the county of Surrey, Army Contractor, and John Henderson, of Ramsgate, in the county of Kent, Engineer, for the invention of "Improvements in locomotive engines, partly applicable to other steam engines."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of November, 1859.

2585. To William Henry Ward, of the city of Auburn, in the county of Cayuga and state of New York, one of the United States of North America, for the invention of "An improved turn-table for railways and other purposes."

2586. To Edward Borlase, of Allenheads, Haydon Bridge, in the county of Northumberland, Mining Engineer, for the invention of "Improved apparatus for separating metals and metallic ores, when mingled with other substances in the state of slime."

2587. To James Donald, Engineer, and Peter Smith, Foreman Engineer, both of Johnstone, in the county of Renfrew, North Britain, for the invention of "Improvements in apparatus for raising and for extracting liquids."

2588. To Charles Chalmers, of Merchiston Castle, Bank Morningside, Edinburgh, in the county of Mid-Lothian, North Britain, Gentleman, for the invention of "Improvements in gas stoves, for heating buildings, apartments, and other similar places."

2589. To William Elliott, of Norwich, in the county of Norfolk, Engineer, for the invention of "An improved method of raising water and other liquids."

2390. To Charles Pewtress Alvey, of Commerce Place, Brixton Road, in the county of Surrey, for the invention of "Improved machinery or apparatus for the manufacture of envelopes."

2591. To William Henry Ward, of the city of Auburn, in the county of Cayuga and state of New

York, one of the United States of North America, for the invention of "Improvements in tanning hides and skins."

2592. To WILLIAM WILKINS, of Banbury, in the county Oxford, Builder, for the invention of "A ridge trestle," or apparatus which may be employed on the ridges of buildings to support persons and planking."

2593. To ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improvement in the manufacture of hose or flexible pipe."—A communication from abroad by Nehemiah Hunt, of Boston, in the United States of America.

2594. To THOMAS DIX PERKIN, of King David Fort, St. Georges in the East, in the county of Middlesex, for the invention of "Improvements in the manufacture of coloring matters."—A communication from abroad by Rudolph Knosp, of Stutgart.

2595. And to JAMES GRAHAM, of Warrington Junction, Lancashire, for the invention of "Improvements in treating and applying products obtained when galvanizing iron."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of November, 1859.

Invention protected for Six Months by the Deposit of a Complete Specification.

NOTICE is hereby given that the petition of

2614. JOSEPH WILLCOCK, of 89, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, praying for Letters Patent for the invention of "Improvements in the construction and arrangement of the boiler and working parts of steam fire engines, parts of which are applicable to engines for other purposes,"—a communication from abroad by Joseph G. E. Larned, of Brooklyn, state of New York, United States of America,—was deposited and recorded in the Office of the Commissioners on the 19th day of November, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

25th November, 1859.

924. WILLIAM ARENA MARTIN and JAMES PURDIE, of Woolwich, in the county of Kent, Engineers, for an invention of "Improvements in fire bars."—Dated 13th April, 1859.

1287. JAMES HARMER, of St. James Street, Lower Road, Islington, in the county of Middlesex, for an invention of "Improvements in parts of dry gas meters."—Partly a communication from abroad by William Sinderby, of Boston, Massachusetts, in the United States of America. — Dated 25th May, 1859.

1289. RICHARD ATWOOD GLASS, of 115, Leadenhall Street, in the city of London, Submarine Telegraph Cable and Wire Rope Manufacturer, for an invention of "Improvements in submarine electric telegraph cables." — Dated 25th May, 1859.

1291. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the county of Middlesex, for an invention of "Improvements in the construction of ships and vessels."—A communication from abroad by Hermann Hirsch, resident at Berlin, in the kingdom of Prussia.—Dated 25th May, 1859.

1311. WILLIAM WEILD, of the city of Manchester, in the county of Lancaster, Machinist, for an invention of "Improvements in looms for weaving pile fabrics."—Dated 27th May, 1859.

1315. PATRICK AITCHISON, Brass Founder, and THOMAS BINKS, Plumber, both of Sheffield, in the county of York, for an invention of "Improvements in self-acting and other water-closets, and in flushing apparatus connected therewith."—Dated 27th May, 1859.

1315. HILARY NICHOLAS NISSEN, of Mark Lane, in the city of London, Stationer and Printer, for an invention of "An improvement in book indexes."—Dated 27th May, 1859.

1321. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in machinery for cleaning, grinding, and bolting corn and other grain."—A communication from abroad by Jean Baptiste Falguière, of Marseilles.—Dated 28th May, 1859.

1324. MARCUS DAVIS, of 5, Lyon's Inn, Strand, in the city of Westminster, Caoutchouc Wheel Manufacturer, for an invention of "Improvements in the construction of wheels, axles, and boxes for carriages."—Dated 30th May, 1859.

1329. WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for an invention of "Improvements in the manufacture of iron and steel."—Dated 30th May, 1859.

1366. HERBERT NEWTON PENRICE, of Witton House, near Norwich, for an invention of "Improvements in machinery for propelling vessels."—Dated 3rd June, 1859.

1421. GEORGE CLAUDIUS ASH, of West View, Hampstead, in the county of Middlesex, for an invention of "Improvements in the manufacture of artificial teeth."—Dated 11th June, 1859.

1425. ARTHUR SMITH, of 4, Stafford Terrace, Loughborough Road, Brixton, in the county of Surrey, for an invention of "Improvements in bleaching and purifying bees' wax."—Dated 13th June, 1859.

1430. GEORGE SMITH, of Manor Road, Saint Mary's, Newington, in the county of Surrey, for an invention of "Improvements in hat bands."—Dated 14th June, 1859.

1494. LEMUEL DOW OWEN, of No. 192, Tottenham Court Road, in the county of Middlesex, Engineer, for an invention of "Improvements in machinery for manufacturing bolts and nails."—A communication by Foreigners residing abroad, videlicet, by Messieurs Buck and Company, Engineers, of Lebanon, New Hampshire, in the United States of America.—Dated 21st June 1859.

1555. Richard Kay, Cotton Spinner, John Manock, Manager, John Whittaker, Mechanic, and Thomas Booth, Operative Cotton Spinner, all of Heywood, in the county of Lancaster, for an invention of "Improvements in machinery for slubbing, roving, spinning, and doubling cotton and other fibrous materials."—Dated 30th June, 1859.

2059. John Gay Newton Alleyne, of Butterley Iron Works, Alfreton, in the county of Derby, for an invention of "Improvements in the manufacture of wrought iron beams."—Dated 9th September, 1859.

2073. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "Improvements in the construction of hydraulic pumps."—A communication from Louis Laurent Bequemie, residing in Paris.—Dated 12th September, 1859.

2157. John Dales, of 11 and 12, Gresham House, Old Broad Street, in the city of London, for an invention of "Improvements in purifying sewage and other impure waters, and in separating therefrom materials suitable for use as manure, and also the preparation of a substance to be employed for such purposes."—Dated 22nd September, 1859.

2201. David Stewart, of Newcastle-on-Tyne, in the county of Northumberland, and of Bombay, in the East Indies, Engineer, for an invention of "Improvements in presses used for pressing goods."—Dated 28th September, 1859.

2221. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in the construction of apparatus for reworking the waste steam of steam engines."—A communication from abroad by Messieurs Dalifol and Company, of Paris, Manufacturers.—Dated 30th September, 1859.

Patent on which the Stamp Duty of £50 has been Paid.

(*To 23rd November*, 1859, *inclusive.*)

21st November.

2767. Thomas Roberts and John Dale, both of Manchester, in the county of Lancaster, Manufacturing Chemists, and John Daniell Pritchard, of Warrington, in the said county, Chemist, for an invention of "Improvements in obtaining and purifying oxalate of soda, which improvements are also applicable to the manufacture of oxalic acid."—Dated 21st November, 1856.

2798. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved machinery for forging iron."—A communication.—Dated 25th November, 1856.

22nd November.

2782. James Broadley, of Saltaire, in the county of York, Overlooker to Messrs. Titus Salt, Sons, and Co., of Saltaire, for an invention of "Improvements in weaving."—Dated 24th November, 1856.

2788. Charles Edwin Heinke, of Great Portland Street, in the county of Middlesex, Submarine Engineer, for an invention of "Improved apparatus for illuminating objects beneath the surface of water or for giving light in mines and other places where combustible or explosive gases exist."—Dated 24th November, 1856.

2789. John Orr, of Glasgow, in the county of Lanark, North Britain, Weaving Foreman, for an invention of "Improvements in the manufacture of pile fabrics."—Dated 24th November, 1856.

2816. Camille Auguste Tissot, of 39, Rue de l'Echiquier, Paris, in the empire of France, and of 4, South Street, Finsbury, London, Middlesex, for an invention of "Improvements in the production of motive power, and in the apparatus connected therewith."—Dated 28th November, 1856.

23rd November.

2840. George Collier, of Halifax, in the county of York, and James William Crossley, of Brighouse, in the same county, for an invention of "Improvements in apparatus used in hot pressing, and in the means of manufacturing parts of apparatus used for such purpose."—Dated 1st December, 1856.

2867. Adam Bullough, of Blackburn, in the county of Lancaster, Manufacturer, and William Bullough, of the same place, Machinist, for an invention of "Improvements in looms."—Dated 3rd December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 22nd November*, 1859.)

1015. Henry Clayton, of the Atlas Works, Upper Park Place, Dorset Square, in the county of Middlesex, for an invention of "Improvements in the manufacture of bricks."—Dated 13th December, 1852.

Notice of Application for Leave to enter a Disclaimer and Memorandum of Alteration.

In the matter of a Patent granted to John Carter Ramsden, of Bradford, in the county of York, Stuff Manufacturer, for the invention of "Improvements in apparatus or the mechanism of looms for weaving a certain class of plaids, checks, and fancy woven fabrics, bearing date the 28th November, 1853. (No. 2771.)

Notice is hereby given that the said John Carter Ramsden has applied by petition to Her Majesty's Commissioners of Patents for leave to enter a Disclaimer and Memorandum of Alteration of certain parts of the specification of the said Letters Patent.—Dated this 17th day of November, 1859.

William Carpmael,
Agent for the Petitioner,
No. 24, Southampton Buildings,
Chancery Lane.

FOREIGN PATENTS.



UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 8th November, 1859, and each bearing that date.

No. 26,005. CORINTHA ALDEN, of Cassadaga, N.Y., for an "Improved clothes ironing apparatus."

"I claim the arrangement of the box A with the follower B, or its equivalent, in combination with the tank D, substantially as and for the purpose specified."

No. 26,006. EPHRAIM C. ALLEN, of Le Roy, N.Y., for an "Improvement in corn planters."

"I claim the arrangement of the various parts of the seeding machine herein described, when the whole are constructed and combined for operation conjointly, as and for the purposes in this specification herein set forth."

No. 26,007. JOHN ASPINALL, of London, England, for an "Improvement in refining sugar."—Patented in England, 8th February, 1859.

"I claim the method herein described, of effecting the 'blowing up' or melting of raw sugars, that is to say, by so supporting or upholding the sugar, that successive portions will be brought into contact with the water, whereby the sugar will be melted at or near the surface, for the purposes and substantially in the manner set forth."

No. 26,008. MERRICK BEMIS, of Ashburnham, Mass., for an "Improved conpensating pendulum."

"But what I do claim, is, my improved mode of making a compensating pendulum, viz.: by arranging a part of the rod in the form of a bow or sectoral bend, and applying to such bend, or part, a clasp or bow of metal having a different 'expansive ratio,' the whole being substantially as specified."

No. 26,009. ROBT. BLAIR, of Malugin Grove, Ill., for an "Improved device for applying steam as a motor."

"I claim the combination with a radial lever or frame D, and circular railway A, and central revolving power transmitting shaft C, of a traction steam engine B, when the crank axes of said engine radiate from the central shaft C, and the inner traction wheels are made of smaller diameter than the outer one, the whole arranged and operated substantially in the manner and for the purpose set forth."

No. 26,010. NELSON BURR, of Batavia, Ill., for an "Improvement in corn shellers."

"I claim the peculiar arrangement of the section *e*, provided with the ring *j*, and placed relatively with the cylinder A, and adjoining sections *d*, *f*, to effect the object herein set forth, substantially as described."

No. 26,011. THOS. CARPENTER, of Battle Creek, Mich., for an "Improved shoe making table."

"I claim the movable bottom D, arranged in combination with the 'bench' A, and compartment box B, constructed as described, substantially in the manner and for the purpose herein specified."

No. 26,012. R. CARKHUFF and B. CHALPANT, of Lewisburgh, Pa., for an "Improvement in steam valves."

"We claim the peculiar arrangement of the slide T and transverse bar *t*, which form the valve of the steam chest K, the bar U, and the cross arm *r*, of rod S, whereby said valve is allowed a lateral as well as a longitudinal movement within the chest for the purpose set forth."

No. 26,013. LUCIUS C. CHASE, of Boston, Mass., for an "Improvement in girth buckles."

"I claim constructing a buckle with wings B, B, or their equivalents, and furnished with holes *b*, *b*, substantially as set forth and for the objects specified."

No. 26,014. B. S. CHURCH, of Manhattanville, N.Y., for an "Improvement in water meters."

"I claim, first, the arrangement of the partitions *g*, g^1, in the trough G as described, in combination with the air-tight chamber D, chamber F, and tubes I, whereby that portion of the water does not pass through the measuring buckets is prevented carrying off any of the air in chamber D. 2nd, arranging in the air chamber D, or float *j*, in combination with a valve *h*, or its equivalent, substantially as and for the purpose described."

No. 26,015. GEORGE CLAY, of New York, N.Y., for an "Improvement in packing for sliding gas lights."

"I claim the combination with the pipe D, shell A, and pipe B of the elastic tube C, when the latter is fitted so that its central portion will contract and press upon the burner, or upon the sliding pipe, so as to form a gas-tight joint, all as herein shown and described."

No. 26,016. J. W. COCHRAN, of New York, N.Y., for an "Improvement in projectiles for rifled ordnance."

"I claim, 1st, the band C, of copper or other wire, applied substantially as described, in combination with the cup or cup-like frame B, attached to the rear of the projectile, for the purpose herein described. 2nd, the expanding ring D, applied substantially as described, in combination with a conical surface *f*, formed behind a shoulder on the front part of the projectile, for the purpose herein set forth."

No. 26,017. J. W. COCHRAN, of New York, N. Y., for an "Improvement in projectiles for rifled ordnance."

"I claim the application to a projectile for rifled ordnance of a covering or of one or more bands, composed of a coil or coils of copper or other wire, wound upon its exterior substantially as herein described for the purpose specified."

No. 26,018. D. W. COMSTOCK, of Chicago, Ill., for an "Improvement in railroad gate."

"I claim placing the ends of two pairs of adjoining rails B^1 on a rising and falling platform C, when the latter is suspended from the short arms *d* of crank levers *d*, *e*, the long arm *e* of which carry the panels F of a gate, substantially in the manner and for the purpose described."

No. 26,019. WM. F. CONVERSE, of Harrison, Ohio., for an "Improvement in railroad car springs."

"I claim, 1st, the combination of a clamp *f*, *g*, *h*, with a disk spring, in the manner and for the purpose explained. 2nd, in connection with the above I claim the series of annular steel disks, of unequal diameter, arranged in manner and for the purpose described."

No. 26,020. N. B. COOPER, of Gratis, Ohio, for an "Improved churn dasher."

"I claim the arrangement of the arms *d*, *d*, on the two pivots *b*, b^1, one on each side of the upright B, when the upright B is made removable by means of the ways *x*, *x*, substantially as set forth."

No. 26,021. EDWARD CRANE, of Dorchester, Mass., for an "Improved steam boiler."

"I claim a fire box, surrounded by a water jacket, the combination of the tubes in the fire box with the boxes or chambers, as herein described, so that a number of tubes shall have the same connections through the said boxes or chambers with the water jacket and steam chamber, and shall also be capable of being put in and taken out of the boiler at the same time. I claim the use of tubes coiled

or folded into the fire box, and connected with the water jacket and steam chamber through the boxes or chambers a and b, and a^{11} and b^{11}, as herein described, of such length in proportion to their diameter that all the water entering them at the lower end shall be converted into steam in the lower portion, and the steam be superheated in the upper portion before it is discharged into the steam chamber. I claim the use of tubes in the steam chamber, for discharging the steam generated in the tubes in the fire box, so bent that the superheated steam issuing therefrom shall be discharged into a drum around the chimney, and against the chimney in the first instance, and then against the surface of the water, as herein described. I also claim the use of the drum around the chimney in the steam chamber for securing the discharge from the tubes, and checking the disturbance of the water through the whole extent of the steam chamber, arranged and constructed as herein described. I claim the combination of the blow-off cocks e, with the stopcocks g, for the purpose of blowing off each section of tubes separately, as herein described. I claim the use of the tube coiled around the chimney for the purpose of taking the steam from the steam chamber at the point where it has the highest temperature."

No. 26,022. Edward Crane, of Dorchester, Mass., for an "Improvement in railroad car wheels."

"I claim a wheel having its rim and tire secured together by india rubber vulcanized in place, as set forth."

No. 26,023. Munson C. Cronk, of Auburn, N.Y., for an "Improved clothes dryer."

"I claim the combination and arrangement of the hollow post A, the sliding piece R, brace cords M, N, O, P, Q, the hub B, the stands W, X, Y, Z, and the radial arms C, D, E, F, G, the ring V, substantially in the manner and for the purpose specified."

No. 26,024. Charles A. Desobry, of Plaquemine, La., for an "Improvement in pans for evaporating cane juice."

"I claim the heaters B, B, of inverted cup form, applied within the pan, in combination with the system of connections E, E, F, F, and the two series of pipes S, S, and W, W, below the pan, substantially as herein described. And, in combination with the said heaters, connections, and two systems of pipes, I claim the pipes b, b, passing through the said heaters, substantially as herein described."

No. 26,025. Jacob Edson, of Boston, Mass., for an "Improvement in pumps."

I claim the peculiar manner in which I support the cylinder upon the flanges L, in combination with the vacuum chamber H, for the purpose of ensuring an unobstructed passage between the said chamber and the induction pipe below the valves, in the manner and for the purpose, substantially as herein set forth. 2d, I claim the manner herein described, of securing the induction pipe to the pump, by means of the projecting bearing points m, operating in the manner substantially as herein set forth. 3d, I claim the within described combination and arrangement of the division plate K, and the cylinder I, whereby the body of the pump is divided into two distinct chambers, the one serving as an air or water chamber, and the other as a vacuum chamber, as set forth."

No. 26,026. Thaddeus Fairbanks, of St. Johnsbury, Vt. for an "Improvement in letter scales."

"I claim my improved manufacture of letter scale as made, not only with its pendulous weight k, connected with the scale pan F, by a forked arm H, H, I^1, provided with bearings h, i, for receiving and resting on knife edges of a bar I, extended from the steelyard, as specified, but with a bar steelyard E, made without any fork, and extended into a stationary staple or stop g, the whole being arranged in manner, and to operate as specified."

No. 26,027. John M. Forrest, of Norfolk, Va., for an "Improved sash fastener."

"I claim the springs C and C^1, and the ratchets G and G^1, as constructed, in combination with the levers D, and cord F, operating as described, and for the purposes set forth."

No. 26,028. Leonard D. Gale, of Washington, D.C., for an "Improvement in manufacture of gas."

"I claim the treatment of bitumen, bituminous coal, and their distillates, or their equivalent, by first converting the volatile portions to a state of vapor, at a temperature below a cherry-red heat, and then forcing the vapour so generated into contact with a red hot surface, in such a manner that the gas generated may be instantaneously removed from the said heated surface, and thus be prevented from further decomposition."

No. 26,029. Thaddeus A. Granger, of Wilson county, N.C., for an "Improvement in machines for hoisting marl, &c."

"I claim the construction of the cap timber (C), in combination with the supporting timber (D), which forms the swivel to allow the beam (D) to be moved to any point desired."

No. 26,030. Leonard D. Gale, of Washington, D.C., for an "Improvement in manufacture of gas."

"I claim the treatment of all woody, resinous, and fatty bodies, as well as all tarry matter, except bitumen, bituminous coal and other distillates, by first converting the volatile portions to vapor, at a temperature below a cherry-red heat, and afterward forcing the vapor so generated into contact with a red hot surface, in such manner that the gas generated thereby may be instantly removed from said heated surface, and thus be prevented from further decomposition."

No. 26,031. Noah E. Hale, of Nashua, N.H., for an "Improvement in applying pressure to top rolls of drawing machinery."

"I claim the arrangement and combination of the drawing rolls C^1, D^1, straps H, attached at the ends of said rolls, adjustable bars G, lever J, weight K, rod N, bell crank lever L, and hanger O, as and for the purpose herein shown and described."

No. 26,032. E. H. Harris, of Palmetto, Geo., for an "Improvement in carriage seats."

"I claim attaching the seat B, to the body A, of the vehicle, by means of the bars a, and rods c, or their equivalents, so as to permit of a certain degree of play of the seats, or movement thereof, independent of the body A, for the purpose specified."

No. 26,033. I. P. Harris, of Byhalia, Miss., for an "Improvement in ploughs."

"I claim the combination of the separately adjustable and removable mould board E, with a sub-soil share C, situated behind and below it, the said sub-soil share being also separately removable, to allow the separate use of said mould board, substantially as specified."

No. 26,034. Horatio F. Hicks, of Grand View, Ind., for an "Improvement in machines for pulling and cutting cotton and corn stalks."

"I claim the combination of the reel D, paddle H, drum G, and cutter I, operating substantially as and for the purpose set forth."

No. 26,035. Wm. Cleveland Hicks, of Boston, Mass., for an "Improvement in sewing machines."

"I claim as my method of controlling needle thread in 'sewing machines,' by a combination of mechanism, substantially as herein described, by which a bar or wire, through which the thread passes, and by which the thread is tightened and loosened, shall have the herein-described motion, combined, firstly, to be drawn up by the needle bar, or its equivalent, during its entire upward motion. Secondly, held at rest until the needle eye is at or near the material to be sewed; and thirdly, to be disengaged and allowed, or caused to fall by its own gravity, or by the assistance of a spring, for the purpose of gaining the amount of motion lost by remaining at rest, during the first part of the downward motion of the needle bar, all substantially as herein described and specified."

No. 26,036. N. E. Hinds, of Cooperstown, N.Y., for an "Improved horse shoe."

"1st, I claim the wider and thicker enlargement of the toe or fore part of the shoe. 2d, I claim the trough like concave form of the underside of the shoe, and the raised edges B, B, and C, that ensue as a consequence of the construction of said concave form. 3d, I claim the construction of calks made in a V or double V form, all of which is constructed and claimed, substantially as and for the purposes set forth and specified."

No. 26,037. A. D. Hoffman, of Belleville, Mich., for an "Improvement in cider mills."

"I claim the combination of the crushing rollers B, B¹, pressure rollers E, F, and endless apron G, when the crushing rollers B, B¹, are provided respectively with teeth *a*, and recesses *b*, and the pressure roller E, provided with the yielding bars *e*, and canvas covering *g*, substantially as and for the purpose set forth."

No. 26,038. S. F. Lewis, of San Francisco, Cal., for an "Improvement in pulley blocks."

"I claim, 1st, the arrangement and combination of the pulley C, shoe D, and eccentric E, within the block A, as and for the purpose specified. 2nd, the teeth or projections *b*, and stop *c*, formed respectively on the pulley C, and shoe D, to operate as and for the purpose set forth."

No. 26,039. James P. McLean, of New York, N.Y., for an "Improvement in abdominal corsets."

"I claim a corset or belt, with cork brackets or projections (B, B, B¹,) on its zone, the upper or top edge of such brackets being beveled, as shown in the drawings, in combination with the abdominal pads (A^1, A^1, A^2, A^2,) which form a part of the lower section of the corset or bandage, and are held in their places by the same, in the manner and for the purpose set forth and shown in the drawings."

No. 26,040. James McNamee, of Easton, Pa., for an "Improved knife cleaner."

"I claim the upper socket D, with its pad I, operated by the socket F, with its pad and the reservoir B, when the pad of the lower socket is rendered adjustable in respect to the reservoir, and when the several parts are arranged in respect to each other, as and for the purpose herein set forth."

No. 26,041. Allen N. Merrill, of Batavia, Ill., for an "Improvement in seeding machines."

"I claim, 1st, the employment or use of a longitudinal adjustable shaft H, provided with cylinders J, having different sized seed cells in connection with perforated bars *g*, slides *i*, and plate *k*, arranged to operate substantially as and for the purpose set forth. 2nd, the arrangement and combination of the spout *l*, conductors K, shoe spouts L, and elevating arms E, on shaft D, connected to the conductors K, the whole being arranged substantially as and for the purpose set forth."

No. 26,042. John H. Miller and Samuel Albright, of Grafton, Va., for an "Improvement in portable gas apparatus."

"We claim a portable gasometer C furnished with a central gas discharge pipe E, a central guide rod S, a flexible connecting pipe F, and one or more ratchet bars H, H, and arranged in a frame A, A, B, B, which is provided with one or more spring pawls I, I, for use in a railroad car or other traveling apparatus, which is subject to a jolting or vibrating motion for the purpose of supplying gas to a series of gas burners, substantially as and for the purposes set forth."

No. 26,043. Charles Minzesheimer, of New York, N. Y., for an "Improvement in shirts."

"I claim the expanding joint D, D, and strings E, E¹, or their equivalents, at the back of the shirt, in combination with the openings *m*, *m*, in the other, substantially as and for the purposes herein specified."

No. 26,044. Oliver P. Moran, of Haynesville, Md., for an "Improvement in corn planters."

"I claim the combination of the curved concentric aperture *o*, in the bottom of the seed box G, with the sliding strike N, and measuring holes *m*, *m*, for the purpose of charging said holes from the seed box with the least possible weight upon and impediment to the motion of the dropping wheel, as herein specified. I also claim the combination of the concentric vibratory arm *h*, and projecting pin *l* thereon, with the measuring holes *m*, *m*, substantially as specified, for the purpose of imparting the proper movement to the dropping wheel D. I also claim the arrangement of the instant valve 'M' upon the curved weighted hinge *t*, which is pivoted to the sides of the chamber G in a position nearly vertically over the valve, in combination with the slotted connecting rod S, for the purpose of producing a superior quickness and delicacy of action on the valve, substantially as herein specified."

No. 26,045. Austin W. Moses and Joseph Springer, of Philadelphia, Pa., for an "Improvement in casting car wheels."

"We claim the described method of casting railroad car wheels by pouring the central portion of the wheel independently and in advance of the tread, to allow said central portion to cool and contract to any desired degree before adding the metal forming the tread of the wheel, when said end is accomplished by the employment of a ring, composed of any convenient number of segments F, F, or their equivalents, and arranged to operate in combination with the annular part D of the flask, substantially in the manner and for the purpose specified."

No. 24,046. Jacob H. Mumma, of Harrisburgh, Pa., for an "Improvement in straw cutters."

"I claim the employment of a hawk-bill cutter (*a*, *a*), constructed and arranged as described, in connection with a cutter bar (*c*) of a straw cutter, operating in the manner as and for the purposes set forth. 2nd, I claim the slat bed (*h*) for the purpose of not only cleaning the material from dirt, but also as a feed to the rollers, substantially in the manner and for the purposes set forth. 3rd, I claim the employment of the rib *d* feed rollers for crushing and dividing the sheet of material to be cut, when arranged and combined with a hawk-bill cutter *a*, *a*, and bar C, substantially in the manner set forth."

No. 26,047. Adrian V. B. Orr, of Lancaster, Pa., for an "Improvement in sawing machines."

"I claim the oscillating lever D, B, in combination with the spring T, and feed lever *l*, *l*, when constructed as described, and operating either a single saw or a pair of saws, as specified."

No. 26,048. George R. Osbrey, of Providence, R. I., for an "Improvement in heating apparatus."

"I claim the combination of an alcohol reservoir and vaporizer, with a lamp for heating the same when such vessels are connected by a liquid pipe E, and a vapor pipe F, said pipes acting in such connection to maintain a constant level within the vaporizer, in the manner and for the purpose substantially as herein set forth. I also claim combining with such device for vaporizing a conical disseminator I, and a convex deflector K, arranged substantially as specified, and for the purpose herein set forth."

No. 26,049. George W. Parrott and Charles K. Bradford, of Lynn, Mass., for an "Improved machine for cutting boot and shoe soles."

"We claim the combination and arrangement of an automatic feed, sole by sole, with the cutting knives, substantially as described."

No. 26,050. Hiram G. C. Paulsen, of Flatland, N. Y., for an "Improvement in clarifying and refining sugar juices, &c."

"I claim the application of alcohol, in combination with water, in all the proportions as stated, and at the temperature of boiling of said combined liquids, to the melting or dissolving, boiling or treating raw sugars or juices of saccharine substances, as herein described, for the purpose and to the effect of producing the intended making and refining of said sugars."

No. 26,051. Wm. Pettet, of New York, N. Y., for an "Improved cooking range."

"I claim the combination with a central fire grate having openings in its side, and with the side roasting chambers, or spits, of dampers, which can be adjusted so that the roasting may either be effected in the side chambers by direct action of the burning coals, or by the heat radiated from the sides of the fire chambers, substantially as and for the purposes set forth."

No. 26,052. Edward R. Pye, of New York, N. Y., for an "Improved sweat knife for cutting hat and cap linings."

"I claim the employment or use of the knife D on the projection C of the bar B, and secured thereto by the set screw *c*, in connection with the pointed wheel E, attached to the projection C, the whole being arranged substantially as and for the purpose set forth."

No. 26,053. JOHN ROBINSON, of Eli, of Sharptown, Md., for an "Improvement in portable turn table."

"I claim the adjustable sliding turn table D, E, G, the whole constructed and operating substantially as specified for the purpose set forth."

No. 26,054. JOSIAH M. READ, of Boston, Mass., for an "Improvement in stoves, ranges, &c."

"I claim the application and construction of the flue G, with its door *h*, substantially in the manner as and for the purposes as described."

No. 26,055. PETER REYNARD, of New York, N. Y., and VICTOR VARIN, of Brooklyn, N. Y., for an "Improved insect powder blower."

"We claim, first, the ball *c* attached directly to the chamber or neck *b*, and acting to blow the powder out of the neck or chamber, as set forth, and either with or without the valves 1 and 2, for the purposes and as specified. Second, we claim the holder, composed of the rod *e* and ring *f*, when provided with the rod *g*, or its equivalent, and the button *h* to act on the elastic ball *c*, for the purposes and as described and shown."

No. 26,056. C. BIRD PATE, of Moore's Mill, Ind., for an "Improvement in stump extractor."

"I claim the arrangement of levers E, F, and L, and spar H, the whole being for operation conjointly as and for the purpose above set forth."

No. 26,057. ISRAEL M. ROSE, of New York, N. Y., for an "Improvement in sewing machines."

"I claim the combination of two needles and a shuttle, or their equivalents, to operate, substantially as herein set forth, for the purpose of producing a stitch of the structure herein described and represented."

No. 26,058. CHRISTIAN CHARLES SCHIEFERDECKER, of Baltimore, Md., for an "Improvement in stoves."

"I claim the combination of the central air space (*f*), containing material refractory to heat, with the series of surrounding ascending and descending smoke flues (*n*, *o*, *p*), when arranged substantially as herein set forth, for the purposes described."

No. 26,059. CHARLES SCOFIELD, of Adams, N. Y., for an "Improvement in sewing machines."

"I claim, 1st, the auxiliary feeding plate Q, with pins or teeth on its surface, in combination with the perforated slotted main feeding plate N, when said plate Q combines in itself the properties of a spring and of a feed bar, and is otherwise constructed and arranged so as to operate in the manner herein described. 2nd, the arrangement of the pivoted lever S, adjustable collar *q*, pressure pad F, F^1, and needle lever D, in the relation shown to one another and for united operation, in the manner and for the purpose set forth. 3rd, the lever S, when made elastic laterally pivoted at *n*, provided with a pin *p*, and coupled to the pressure pad F, F^1, by an adjustable collar *q*, in combination with the needle lever D and the recess S in the standard C, substantially as and for the purpose set forth. 4th, the looper W, *x*, U, T, when the part U, T, is made rigid and attached to the horizontal rock shaft V, and the part W, *x*, is made yielding or with a spring, and form or arranged on one side of part U, T, and in the relation shown to a projection on the peripherical surface *x* of the actuating cam, in the manner and for the purpose herein described. 5th, the combination of the adjustable intermediate plate 13 with the jaws T, *x*, of the looper, substantially as described, for the purpose of adapting the same looper without removing it from the machine which is used for sewing either in the double looped or other stitch made with two threads for sewing in the chain-stitch, as set forth."

No. 26,060. JAMES STIMPSON, of Baldwinsville, Mass., for an "Improved machine for making box-joints."

"1st, I claim the combination of the hollow bit *r*, the cutters *w* and d^2, or their equivalents, operating as set forth, to form the tenons *a*. 2nd, in combination with the above, I claim the auger bit i^2, operating as described, to form the holes *c* to correspond with the tenons *a*, as set forth."

No. 26,061. CHESTER W. SYKES, of New York, N. Y., for an "Improved carving knife."

"I claim the combination of a knife and shears, substantially as described, as an instrument specially adapted for carving meats."

No. 26,062. HARVEY TRUMBULL, of Central College, Ohio, for an "Improvement in straw cutters."

"I claim the combination of a self-adjusting spring pressure clasp L to or with an automatic rake, for the purpose of feeding the material to the knife, substantially as specified."

No. 26,063. NATHANIEL WATERBURY, of Fond du Lac, Wis., for an "Improvement in gates."

"I claim the arrangement and combination of the pendulous rod J and weight K with the axis of the pulley H, as and for the purpose herein shown and described."

No. 26,064. JAMES WHITEHILL, of Frederick, Md., for an "Improvement in hot air furnaces."

"I claim, 1st, a furnace, constructed with two separate fire chambers and grates, with an air passage between the chambers closed at their sides but open at the bottom and top, substantially as and for the purposes set forth. 2nd, the combination of the peculiar labrynthian air passage described and the peculiar furnace described, in the manner and for the purpose set forth. 3rd, the combination with the peculiar furnace and peculiar labrynthian air passage, herein described, of the curved cold air pipe M, substantially in the manner and for the purpose set forth."

No. 26,065. FERDINAND WUTERICH and JACOB KOERBER, of New York, N. Y., for an "Improvement in cotton gins."

"We claim the arrangement of the finger shafts C and D, operating and constructed in the manner described, and acting together, so that while the fingers of the shaft C during its revolution pull the cotton out of the hopper, the fingers of the shaft D take the cotton from the former and deposit the same upon the guiding rollers, substantially as specified."

No. 26,066. WM. C. ALLISON, of Philadelphia, Pa., assignor to himself and John Murphy, of same place, for an "Improvement in the mode of confining the seat of the driver on city railroad cars."

"I claim the combination of the board D, rod E, with its collar *f*, and the catch *h*, when the said rod serves the double purpose of supporting the seat, and in conjunction with the catch *h*, of maintaining the seat folded up, out of the way, and when the several parts are arranged on the front of the car, as and for the purpose herein set forth."

No. 26,067. HENRY C. BROWN, of Buffalo, N. Y., assignor to Charles O. Brown, of Dalton, Mass., for an "Improved handle for smoothing irons."

"I claim a ventilated smoothing iron handle, constructed for the purposes substantially as herein described."

No. 26,068. WM. E. COOPER, of Dunkirk, N. Y, assignor to Charles D. Gibson, of New York, N. Y., for an "Improvement in railroad car springs."

"I claim the combination and arrangement of groups of four springs, by and with the suspension bracket, or stirrup B, B^1, &c., constructed, arranged, and operating in the manner above described."

No. 26,069. JOHN DANNER, of Canton, Ohio, assignor to himself and J. M. Jay, of same place, for an "Improvement in sleeping cars."

"I claim the combination of the hinged back d^1, with the hinged and reversible frame D^1, and removable piece E, constructed and arranged to operate in relation to seat C^1, and false back *d*, of the back B^1, substantially as and for the purposes set forth."

No. 26,070. PEARSON B. KITCHEN, of Philadelphia, Pa., assignor to Wm. M. Marshall, of same place, for an "Improvement in apparatus for heating hydro-carbon liquids."

"I claim the application to gas generators of a hot-air chamber, as previously described, and the submerging of one

or more air pipes therefrom, into and upon the chemicals, for the purposes set forth and herein described, or any other, substantially the same, and which will produce the intended effect."

No. 26,071. A. H. KNAPP, of Newton Centre, Mass., assignor to himself, E. H. Barstow, and A. R. Trowbridge, of same place, for an "Improvement in lamps."

"I claim the 'wick protector' I, arranged and operating substantially as and for the purpose herein described."

No. 26,072. AMBROSE LOVIS, of Boston, Mass., assignor to himself and Charles E. Hodges, of same place, for an "Improvement in composition for detergent purposes."

"I claim the above described cleansing, bleaching, and disinfecting liquid, consisting of an alkaline silicate combined with chlorine, for the purpose specified."

No. 26,073. JAMES A. WHIPPLE, of Boston, Mass., assignor to himself and George A. Stone, of Roxbury, Mass., for an "Improvement in method of driving piles."

"I claim the method or process of driving piles by exploding charges of gunpowder, or its equivalent, between the pile and a fulcrum, or resistance, so that the force of the explosion shall wholly or partially act to drive the pile in the direction of its length, or nearly so."

No. 26,074. JOSEPH BARRANS, of 2, Caledonia Terrace, Queen's Road, Peckham, county of Surrey, England, for an "Improvement in portable traction locomotive."

"I claim, first, the method herein described of supporting the front portions of traction, or portable steam engines, by means of a spring or elasticated beam, or lever, at or near the middle thereof, the said beam or lever being arranged constantly to occupy a position in a vertical plane, passing through the axis of the boiler, by having its near and front ends applied and jointed respectively to the bottom of the barrel of the boiler, and to the fore-carriage, substantially in the manner and for the purposes herein set forth. Second, the application and use in traction and portable steam engines of tensional rods or bars, for retaining the driving wheel train centres at the proper distance, asunder from the axis of the ground driving wheels. Third, application and use in traction and portable steam engines of ground driving wheels, in two or more sections, capable of being put into and out of working action for the purpose herein-before described, and such wheels having teeth-holding projections upon their peripheries, of the form and arrangement herein-before described."

RE-ISSUES.

DEWITT C. CUMINGS, of Fulton, N. Y., for an "Improvement in saw cutters."—Patented 7th August, 1855.—Re-issued 8th November, 1859.

"I claim operating the adjustable lower feed roller by means of a spur wheel hung in a vibrating frame or yoke, the axis of which is connected with the said roller by means of an universal coupling when said roller is supported on spring bearings, independent of each other, substantially as and for the purpose specified. 2nd, the employment of a cylinder, provided with a knife or knives which have an upward cylindrical cut when the same is arranged with two independent feed rollers, the lower one of which being supported on a spring or springs in such a manner that it can adjust to act with greater or less pressure on the material to be cut, substantially as set forth."

WILLIAM M. HENDERSON, of Baltimore, Md., for an "Improvement in pumps." — Patented 4th October, 1859.—Re-issued 8th November, 1859.

"The two ball valve cages, with the suction valves in their interior attached to the extremities of a central perforated tube, or its equivalent, in combination with the waterways and discharge valve or valves. The water entering between the plunger valves, and alternately discharged from the ends of the pump barrel, in direction of the stroke, the whole being constructed and operated substantially in the manner and for the purposes set forth."

JOHN H. LYON, of New York, N. Y., for an "Improved lock and detector."—Patented 13th September, 1859.—Re-issued 8th November, 1859.

"I claim combining with a padlock, or any lock provided with as shackle, a lead, or soft metal tube or seal, so arranged as to be temporarily secured thereto, and admitting of being released only by the removing or breaking of said tube or seal, which thereby serves as a detector, substantially as set forth."

ADDITIONAL IMPROVEMENT.

MORTIMER NELSON, of New York, N. Y., for an "Improved gold washer."—Patented 4th October, 1859.—Additional Improvement dated 8th November, 1859.

"I claim, first, imparting to the shaft b, and the series of pans thereon, an intermitted or oscillating movement, for the purposes and as specified; and in combination with the shaft b and pans having the intermitted or oscillating movement set forth, I claim the cam h and ball i, to give the vertical or jigging movement, as specified. Second, the conical hoods or funnels o^1, o^1, in combination with the pans n, n, for the purposes and as specified."

EXTENSION.

THADDEUS HYATT, of New York, N. Y., for an "Improvement in vault covers."—Patented 12th November, 1845.—Re-issued 3rd April, 1855.

"I claim making them of a metallic grating, or perforated metallic plate, with the apertures so small that persons or bodies passing over or falling on them may be entirely sustained by the metal, substantially as described; but this I only claim when the apertures are protected by glass, substantially as and for the purpose specified. And I also claim, in combination with the grating or perforated cover, and glass fitted thereto, the knobs or protuberances on the upper surface of the grating or perforated plate, for preventing the abrasion or scratching of the glass, substantially as specified."

Erratum in Journal of 22nd November.

In the List of Specifications, &c., No. 929 (page 1338), for "silvering" read "severing."

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Notices to Proceed.

NOTICE is hereby given, that

1696. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given notice at the office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the method of constructing and operating batteries for generating or exciting by chemical action, electricity for telegraphic purposes."—A communication from abroad by Thomas C. Avery, of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 18*th day of July*, 1859.

1711. And JAMES TODD, the younger, of Castlemains, in the county of Haddington, North Britain, Farmer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for dressing or cleansing and separating grain and seeds."

1714. And CHARLES TAPP and JAMES BRYANT TAPP, of Chesterfield, Derbyshire, Engineers, have given the like notice in respect of the invention of "Improvements applicable to steam boilers and furnaces for consuming smoke and economizing fuel in the generation of steam, and in the apparatus connected therewith."

As set forth in their respective petitions, both recorded in the said office on the 21*st day of July*, 1859.

1775. And JOHN MOLLADY, of Manchester, in the county of Lancaster, Hat Manufacturer, has given the like notice in respect of the invention of "An improved form or construction of hat, cap, or covering for the head."

As set forth in his petition, recorded in the said office on the 1*st day of August*, 1859.

1800. And EDWARD JAMES CORDNER, of Derramore, in the county of Down, Ireland, Clerk, has given the like notice in respect of the invention of "Improvements in the application of kites to the saving of life and property from shipwreck, and to other purposes."

As set forth in his petition, recorded in the said office on the 4*th day of August*, 1859.

1857. And JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, has given the like notice in respect of the invention of "A composition applicable to the lubrication of machinery, and to various other uses."—A communication from abroad by Horace Vaughn, of the city of Providence, in the state of Rhode Island, one of the United States of North America.

1858. And WILLIAM BOUCH, of Shildon, in the county of Durham, Engineer, has given the like notice in respect of the invention of "Improvements in breaks, in buffers, and in couplings to be used on railways."

As set forth in their respective petitions, both recorded in the said office on the 11*th day of August*, 1859.

1894. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in the construction of carriages, and in apparatus for guiding or reining in carriage horses."—A communication from abroad by Isaac M. Singer, of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 17*th day of August*, 1859.

1935. And DANIEL RUSSELL, of 1, Grove Cottage, Southampton Street, Camberwell, in the county of Surrey, and JONATHAN RUSSELL, of 6, Devonshire Terrace, Queen's Road, Peckham, in the county of Surrey, have given the like notice in

respect of the invention of "Improving the means of docking and lifting ships out of the water for the purpose of examining and cleaning their bottoms, effecting any necessary repairs, fixing new screw propellor, rudder, raising sunken vessels or anything else for which it is desirable to get at any portion of a vessel generally under water."

As set forth in their petition, recorded in the said office on the 24th day of August, 1859.

1999. And JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture or production of boots and shoes, in the machinery, apparatus, and means employed in such manufacture."

As set forth in his petition, recorded in the said office on the 2nd day of September, 1859.

2062. And WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, of No. 4, Wellington Street South, Strand, London, Patent Agents, has given the like notice in respect of the invention of "Improvements in the manufacture of nails."—A communication from abroad by Bernard Roelandt and Company, of Fontaine l'Evèque, Belgium, Nail Manufacturer.

As set forth in his petition, recorded in the said office on the 9th day of September, 1859.

2142. And ANDREW LAMB, of Southampton, in the county of Hants, Engineer, has given the like notice in respect of the invention of "An improved method of heating the feed water for boilers."

As set forth in his petition, recorded in the said office on the 20th day of September, 1859.

2245. And ROBERT BREARLEY, the younger, of Batley, in the county of York, Manufacturer, has given the like notice in respect of the invention of "Improvements in means or apparatus for raising the nap or pile of cloths."

As set forth in his petition, recorded in the said office on the 4th day of October, 1859.

2334. And WILLIAM PROSSER, of No. 24, Dorset Place, Dorset Square, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in apparatus employed in the production of light."

As set forth in his petition, recorded in the said office on the 13th day of October, 1859.

2358. And NAPOLEON MONTANARI, of Charles Street, Soho Square, in the county of Middlesex, has given the like notice in respect of the invention of "An improved apparatus for aiding children in learning to walk."

As set forth in his petition, recorded in the said office on the 15th day of October, 1859.

2369. And JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in the manufacture or production of boots and shoes, and other coverings for the feet, and in the machinery, apparatus, and means connected with such manufacture."

As set forth in his petition, recorded in the said office on the 17th day of October, 1859.

2408. And JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, has given the like notice in respect of the invention of "An improved mode of converting cast iron into soft malleable iron without change of form."—A communication from abroad by I. A. K. Eaton, of the city, county, and state of New York, in the United States of America.

As set forth in his petition, recorded in the said office on the 21st day of October, 1859.

2424. And ANDREW LINMERE DOWIE, of Glasgow in the county of Lanark, North Britain, Merchant, has given the like notice in respect of the invention of "Improvements in gas burners, and in pressure-regulating apparatus for the same."

As set forth in his petition, recorded in the said office on the 24th day of October, 1859.

2450. And JOHN ARMOUR, of Perceton Fire Clay Works, Kilmarnock, North Britain, Manager, has given the like notice in respect of the invention of "Improvements in apparatus for measuring and for regulating supplies of solid and fluid substances in the preparation of mixtures or compounds."

As set forth in his petition, recorded in the said office on the 26th day of October, 1859.

2487. And LUDWIG POHL, of the firm of Eduard Posen and Company, of Offenbach, in Germany, Manufacturers, has given the like notice in respect of the invention of "Improvements in fastenings for bags, purses, and similar purposes."

As set forth in his petition, recorded in the said office on the 31st day of October, 1859.

2498. And JAMES LEEMING, of Bradford, in the county of York, Machine Maker, and JOHN CARTER RAMSDEN, of the same place, Manufacturer, have given the like notice in respect of the invention of "Improvements in looms for weaving."

As set forth in their petition, recorded in the said office on the 3rd day of November, 1859.

2528. And ANDREW LINMERE DOWIE, of Glasgow, in the county of Lanark, North Britain, Merchant, has given the like notice in respect of the invention of "Improvements in effecting communications or signalling between distant or distinct parts of railway trains."

2536. And ARCHIBALD TEMPLETON, of No. 7, Skinner Sereet, in the city of London, and JOHN LAWSON, of Glasgow, have given the like notice in respect of the invention of "Improvements in the manufacture of chenille or like fabrics, suitable to be used in woven and other ornamental piled fabrics."

As set forth in their respective petitions, both recorded in the said office on the 7th day of November, 1859.

2540. And JOHN THOMSON, of Dundee, in the county of Forfar, Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture or production of Brussels and velvet pile carpet fabrics and hearthrugs."

As set forth in his petition, recorded in the said office on the 8th day of November, 1859.

2550. And GEORGE SPILL and DANIEL SPILL, both of Stepney Green, in the county of Middle-

sex, Manufacturers, have given the like notice in respect of the invention of "An improvement in the manufacture of bands for driving machinery, and for various other purposes."

As set forth in their petition, recorded in the said office on the 9th day of November, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

29th November, 1859.

1325. Archibald Smith, Engineer, of 69, Princes Street, Leicester Square, London, for an invention of "Improvements in machinery for making lines, ropes, and cables for telegraphic and other purposes."—Dated 30th May, 1859.

1326. Weston Grimshaw, of Bowdon, in the county of Chester, Gentleman, for an invention of "Certain improvements in machinery for compressing bricks, tiles, artificial fuel, and other similar articles."—Dated 30th May, 1859.

1330. James Fry, of Wrotham, Sevenoaks, in the county of Kent, Miller, for an invention of "An improvement in mills for grinding."—Dated 30th May, 1859.

1333. Isaac Blackburn and Robert Blackburn, both of Long Eaton, in the county of Derby, Engineers, for an invention of "Improvements in locomotive or traction engines, and in implements connected therewith for [cultivating the soil."—Dated 30th May, 1859.

1335. Arthur Mickelthwate, Joseph Peace, and Samuel Johnstone Hobson, all of Sheffield, in the county of York, for an invention of "Improvements in the coating and covering of metallic springs, steel, iron, and other metal bands for the use of any kind of machinery, driving bands or straps, ribs suitable for umbrellas and parasols, stay busks, and ribs for stays, hats, bonnets, reeds, and crinoline and articles of dress, and other useful purposes."—Dated 30th May, 1859.

1336. Enoch Leeson, of No. 13, Traffic Street, Derby, in the county of Derby, Lace Manufacturer, for an invention of "Improvements in machinery for the manufacture of ornamental chenille fringes and braids, or other fabrics."—Dated 30th May, 1859.

1339. William Smith, of Nos. 18 and 19, Salisbury Street, Adelphi, Civil Engineer, for an invention of "Apparatus for raising and docking ships, and other similar purposes.—A communication from abroad by Mr. John W. Nystrom, a citizen of the United States of North America, at present residing in Russia.—Dated 31st May, 1859.

1340. James Septimus Cockings, Civil Engineer, of Ann Street, Birmingham, in the county of Warwick, for an invention of "Certain improvements in the construction of self-adjusting cases for holding and carrying cartridges of various sizes or guages, parts of which improvements are also applicable to cartridge-carriers now in use."—Dated 31st May, 1859.

1341. Samuel Carr and George Butterworth, of the firm of Carr and Butterworth, of Leeds, in the county of York, Manufacturers, for an invention of "Improvements in the manufacture of felted cloth, and in the machinery or apparatus employed in such manufacture."—Dated 31st May, 1859.

1343. James Wansbrough, of Bridge Street, in the borough of Southwark, Gentleman, for an invention of "Improvements in the construction of stereoscopes."—A communication from abroad by Egbert Moxham, of Bruges, in the kingdom of Belgium.—Dated 31st May, 1859.

1348. Frederick Roberts, of Maiden Newton, and Alexander Roberts, of Froome Vanchurch, both in the county of Dorset, for an invention of "Improvements in apparatus employed for ploughing, tilling, or cultivating land, when steam power is employed."—Dated 31st May, 1859.

1350. George Hallen Cortam and Henry Richard Cottam, of St. Pancras Iron Works, Old St. Pancras Road, in the county of Middlesex, for an invention of "Improvements in stable fittings."—Dated 1st June, 1859.

1351. Francis Walter Saltonstall, of Northumberland Street, Strand, in the county of Middlesex, and Alfred Bush, of Hanover Cottage, Park Road, Saint John's Wood, in the county of Middlesex aforesaid, for an invention of "An improved machine or apparatus for dredging and excavating."—Dated 2nd June, 1859.

1356. Samuel Bury, of Manchester, in the county of Lancaster, Manager, for an invention of "Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces."—Dated 2nd June, 1859.

1357. Samuel Bury, of Manchester, in the county of Lancaster, Manager, for an invention of "Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces."—Dated 2nd June, 1859.

1370. Alexander Robertson Arrott, of Saint Helens, in the county of Lancaster, Chemist, for an invention of "Improvements in the manufacture of soda."—Dated 3rd June, 1859.

1377. George Davies, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for an invention of "An improvement in wearing apparel."—A communication from abroad by Gabriel Jean Julien Laury, of Paris, in the empire of France.—Dated 4th June, 1859.

1379. Christopher James, of Mountain Ash, Aberdare, in the county of Glamorgan, Agent, for an invention of "An improvement in the manufacture of railway chairs."—Dated 4th June, 1859.

1424. Oliver Maggs, of Bourton, in the county of Dorset, for an invention of "Improvements in washing machines."—Dated 13th June, 1859.

1446. Nicholas Charles Szerelmey, of No. 6, Park Terrace, Brixton Road, in the county of Surrey, for an invention of "Improvements in preparing combinations of materials for preventing rust in iron and other metals and decay in timber."—Dated 16th June, 1859.

1452. Henry Francis Smith, of No. 4, Dale Street, in the city of Manchester, Agent, for an invention of "Improvements in the manufacture of driving straps or bands."—Dated 16th June, 1859.

1456. Thomas Cattell, of 30, Euston Square, in the county of Middlesex, Doctor of Medicine, for an invention of "Improvements in the manufacture of varnish and lacker."—Dated 16th June, 1859.

1457. Thomas Orrell, junior, of Mill Hill, Bolton-le-Moors, in the county of Lancaster, Cotton Spinner, for an invention of "Certain improvements in mules for spinning."—Dated 17th June, 1859.

1539. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improvement in variable cut-off gear for producing expansion in steam and other motive engines."—A communication from abroad by Ambrose Foster, Noah Sutton, and James Stephens, all of New York.—Dated 28th June, 1859.

1559. Thomas Bell, of Plaistow, in the county of Essex, for an invention of "Improvements in the manufacture of manure."—Dated 30th June, 1859.

1599. John Watkins, of the Cwmamman Colliery, Aberdare, in the county of Glamorgan, Agent, and James Pugh, of the same place, Mechanic, for an invention of "Improvements in lubricating wheels."—Dated 5th July, 1859.

1778. Elizabeth Merrell, of Little George Street, Minories, in the city of London, Tin and Zinc Plate Worker, for an invention of "Improvements in apparatus for washing and cleansing."—Dated 1st August, 1859.

2170. Thomas Barnabas Daft, of Tottenham, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in coating metal conductors suitable for electric telegraphs."—Dated 24th September, 1859.

2267. John Macintosh, of North Bank, Regent's Park, for an invention of "Improvements in the manufacture of flexible tubes."—Dated 5th October, 1859.

2269. John Macintosh, of North Bank, Regent's Park, for an invention of "Improvements in coating metallic conductors for electric telegraphs."—Dated 5th October, 1859.

2277. Walter Macfarlane, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in machinery or apparatus for drawing off or discharging liquids, and in fountains, baths, and similar receptacles for liquids."—Dated 6th October, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 26th November*, 1859, *inclusive.*)

24th November.

2793. Henry Bougleux, of Leghorn, for an invention of "Improvements in the construction of steam boilers."—Dated 25th November, 1856.

2802. Francis North Clerk, of Birmingham, in the county of Warwick, for an invention of "Improvements in metallic roofing for buildings, and in appendages to roofs."—Dated 26th November, 1856.

2810. William Woofe, of Weston Birt, in the county of Gloucester, Agriculturalist, for an invention of "An implement for paring land, applicable also to the removing of turf."—Dated 27th November, 1856.

25th November.

2828. Laban Clarke Stuart, of New York, in the United States of America, for an invention of "Improvements in machinery for reducing fibres to pulp."—A communication from Joseph Kingsland, junior.—Dated 29th November, 1856.

26th November.

2800. John Brown, of Bolton-le-Moors, in the county of Lancaster, Machine Maker, and John Adin, of the city of Manchester, Manufacturer, for an invention of "Certain improvements in jacquard machines."—Dated 26th November, 1856.

2829. John Brown, of Liverpool, in the county of Lancaster, Mast Maker, for an invention of "Improvements in the construction of the lower masts of ships."—Dated 29th November, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 26th November*, 1859, *inculsive.*)

24th November.

877. Thomas Ainsley Cook, of Wallsend, in the county of Northumberland, Manufacturing Chemist, for an invention of "Improvements in bleaching."—Dated 26th November, 1852.

919. James Barlow, of King William Street, in the city of London, Ironmonger, for an invention of "Improvements in stands or supports for casks, barrels, and other like vessels."—Dated 30th November, 1852.

1073. André Cointry, of Nantes, in the empire of France, Manufacturer, and of 4, South Street, Finsbury, London, for an invention of "Improvements in the manufacture of bread and biscuits."—Dated 16th December, 1852.

25th November.

884. Robert Barnard Feather, of Liverpool, Merchant, for an invention of "Improvements in the construction of ships, and in rendering ships and boats impervious to shot."—Dated 26th November, 1852.

26th November.

900. Samuel Cunliffe Lister, of Manningham, in the county of York, Manufacturer, and James Warburton, of Addingham, in the same county, Worsted Spinner, for an invention of "Improvements in the manufacture of yarn from fibrous materials."—Dated 29th November, 1852.

List of Specifications published during the week ending 25th November, 1859.

No.	Price.	Subject-Matter.
967	10*d.*	Machine for raising water.
968	3*d.*	Breech-loading ordnance, and its projectiles.
969	3*d.*	Apparatus employed in the production of light.
970	3*d.*	Valves or cocks.
971	8*d.*	Mowing machines.
972	10*d.*	Agricultural implements.
973	3*d.*	Disinfecting compounds.
974	3*d.*	Reversible mantle.
975	3*d.*	Safety fusee box.
976	3*d.*	Safety apparatus for clearing off condensed steam from steam engines.
977	11*d.*	Seed planters.
978	3*d.*	Ash pans.
979	3*d.*	Covering crinoline.
980	3*d.*	Mowing machine.
981	10*d.*	Looms for weaving ribbons, &c.
982	3*d.*	Preparation of sheet iron.
983	3*d.*	Apparatus for facilitating the draught of locomotive, traction, and other carriages.
984	3*d.*	Rifle canon and projectiles.
985	11*d.*	Machinery for hackling flax, &c.
986	6*d.*	Apparatus for communicating railway signals.
987	7*d.*	Machinery for raising mine skips or cages.
988	3*d.*	Obtaining liquorice extract.
989	3*d.*	Cheese presses.
990	3*d.*	Manufacture of hats, &c.
991	1*s.* 1*d.*	Machinery for weaving seamless rags &c.
992	5*d.*	Stoves.
993	7*d.*	Raising or shaping metals.
994	3*d.*	Production of ornamental surfaces for advertisement tablets, &c.
995	3*d.*	Obtaining liquorice extract.
996	2*s.*	Machinery for combing wool and other fibres.
997	2*s.* 3*d.*	Knitting machinery.
998	3*d.*	Apparatus for oiling wool.
999	3*d.*	Kiln for drying malt.
1000	3*d.*	Apparatus for cutting or sawing metals.
1001	3*d.*	Pencil cases, watch seals, and keys, &c.
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1003	6*d.*	Instrument for extracting weeds.
1004	8*d.*	Apparatus for ringing door bells, &c.
1005	10*d.*	Machinery for supplying steam boilers with water.
1006	3*d.*	Knitting frames.
1007	6*d.*	Clocks, watches, chronometers, &c.
1008	11*d.*	Sewing machinery.
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1010	7*d.*	Pipes and couplings.
1011	3*d.*	Apparatus for showing stereoscopic pictures.
1012	3*d.*	Advertising circulars.
1013	3*d.*	Crinoline skirts.
1014	6*d.*	Folding travelling case.
1015	3*d.*	Buttons.
1016	3*d.*	Drying and preserving timber.
1017	7*d.*	Branding or marking wood for casks, barrels, &c.
1018	7*d.*	Saddles.
1019	10*d.*	Machinery for making and applying screws for fixing the soles of boots and shoes.
1020	3*d.*	Transmitting motive power to ships' pumps.
1021	3*d.*	Gas burners.
1022	3*d.*	Motive power.
1023	9*d.*	Steering apparatus.
1024	3*d.*	Manufacture of woollen cloth.
1025	10*d.*	Filtering and depurating fluids.
1026	10*d.*	Apparatus for raising and lowering heavy bodies.
1027	3*d.*	Utilization of sewage.
1046	7*d.*	Wheels for carriages.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c.. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Waterscoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Watercommanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset. Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent. No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent No.* 602, *dated* 16*th March* 1744.) Price

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AN INDEX to ALL INVENTIONS PATENTED in ENGLAND from 1617 to 1854 inclusive, arranged under the greatest number of heads, with parallel references to INVENTIONS and DISCOVERIES described in the scientific works of VARIOUS NATIONS, as classified by Professor Schubarth. By B. WOODCROFT.

The foreign works thus indexed form a portion of the Library of the Commissioners of Patents, where they may be consulted, or manuscript translations be had.

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Les ouvrages étrangers ci-dessus font partie de la Bibliothèque de la Commission des Patentes, où l'on peut les consulter, et obtenir des traductions en manuscrit.

VERZEICHNISS aller in ENGLAND von 1617—1854 incl. PATENTIRTEN ERFINDUNGEN, unter vielfältige Titel gebracht, mit Hinweisungen auf ERFINDUNGEN und ENTDECKUNGEN die nach Prof. Schubarth's Klassificirung in den wissenschaftlichen Werken VERSCHIEDENER NATIONEN beschrieben sind. Von B. Woodcroft.

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REPERTORIO di tutte le INVENZIONI munite di LETTERE PATENTI in INGHILTERRA dal 1617—1854 inclusivo, poste in ordine sotto il piu gran numero di capi, con riferenze alle INVENZIONI e SCOPERTI descritti nelle opere scientifiche di DIVERSE NAZIONI, classate dal Professore Schubarth. Dal Sig. B. Woodcroft.

Le opere straniere quì indicate possono esser consultate nella Biblioteca dei Commissari delle Patenti, e traduzioni in manuscritto vi possono ottenersi.

B. WOODCROFT,
Superintendent of Specifications, &c.

Museum of Patents, South Kensington.

NUMBER of VISITORS for the Week ending 26th November, 1859.

Mornings - - - -	748
Evenings - - - -	1181
Total - - -	1929

Since the opening of the Museum Free Daily (May 12, 1858,)—164,778.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. WOODCROFT.

Great Seal Patent Office,
Southampton Buildings.

GALLERY OF PORTRAITS OF INVENTORS, DISCOVERERS, AND INTRODUCERS OF USEFUL ARTS.—This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

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In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

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The following are in the press:—

PREPARATION OF FUEL, AND APPARATUS FOR ITS COMBUSTION.
PRODUCTION AND APPLICATIONS OF GAS.
STEAM ENGINES.
METALS AND ALLOYS.

B. WOODCROFT.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 617. FRIDAY, DECEMBER 2, 1859. Price 2d.

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

1784. To HENRY FLETCHER, of Swan Court, Manchester, in the county of Lancaster, Engraver, for the invention of "Certain improvements in sewing and embroidering machinery."
On his petition, recorded in the Office of the Commissioners on the 2nd day of August, 1859.

2110. To THOMAS RICHARDSON, of New Bridge Street, Newcastle-upon-Tyne, for the invention of "Improvements in the manufacture of sulphuric acid and in applying the heat generated in the process."
On his petition, recorded in the Office of the Commissioners on the 16th day of September, 1859.

2180. To FREDERICK SIMPSON, of City Terrace St. Luke's, in the county of Middlesex, for the invention of "An improved method of fastening or securing envelopes and other like receptacles, also for affixing postage stamps, receipt stamps, and all other similar labels requiring adhesive properties."
On his petition, recorded in the Office of the Commissioners on the 27th day of September, 1859.

2254. To JANE ANN HERBERT, of Guildford, in the county of Surrey, Widow, for the invention of "Manufacturing of oxychloride of lead."—A communication from abroad by Ludwig Brumleu, of New York, in the United States of America.
On her petition, recorded in the Office of the Commissioners on the 5th day of October, 1859.

2338. To THOMAS VICARS, senior, THOMAS VICARS, junior, THOMAS ASHMORE, Engineers, and JAMES SMITH, Baker, all of Liverpool, in the county palatine of Lancaster, for the invention of "Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith."
On their petition, recorded in the Office of the Commissioners on the 13th day of October, 1859.

2390. To JOHN KENYON BLACKWELL, of No. 73, Gloucester Terrace, Hyde Park, in the county of Middlesex, Iron Master, for the invention of "Improvements in reverberatory and other furnaces."—A communication from abroad by W. H. Kirkpatrick, of 11, Rue Martel, Paris.
On his petition, recorded in the Office of the Commissioners on the 19th day of October, 1859.

2426. To PIERRE MICHEL ALBERT LAURENT, Ex-Naval Officer, of Havre, town in the French empire, for the invention of "Certain improvements in eye-glasses for optical instruments."
On his petition, recorded in the Office of the Commissioners on the 24th day of October, 1859.

2519. To JEAN GASPARD MEYER, of Paris, in the French empire, Merchant, for the invention of "The employment of the 'tacca pinatifida' as a substitute for straw now used in various manufactures."
On his petition, recorded in the Office of the Commissioners on the 4th day of November, 1859.

2558. To SAMUEL EVANS, WALTER EVANS, and HENRY EVANS, of Derby, in the county of Derby, Cotton Manufacturers, for the invention of "Improvements in polishing thread and yarn, and in machinery to be employed for that purpose."
On their petition, recorded in the Office of the Commissioners on the 10th day of November, 1859.

2584. To WILLIAM HENRY WARD, of the city of Auburn, in the county of Cayuga, and state of New York, one of the United States of North

America, for the invention of "Improvements in wheels for railway engines and carriages."

On his petition, recorded in the Office of the Commissioners on the 15th day of November, 1859.

2596. To CHARLES GREEN, of Winnington, near Northwich, in the county of Chester, Gentleman, for the invention of "Improvement in the method of applying heat in the manufacture and drying of salt."

2597. To WHITMORE BAKER, of Downham, in the county of Norfolk, Surgeon-Dentist, for the invention of "Apparatus to facilitate the delivery of coins, for the giving of change and the like."

2598. To WILLIAM JOHNSON, of No. 47, Lincoln's Inn Fields, in the county of Middlesex, and of No. 166, Buchanan Street, in the city of Glasgow, North Britain, Civil Engineer, for the invention of "Improvements in gas burners."—A communication from abroad by George Mill, of Toronto, Canada, West.

2599. To ROBERT WHITE, of Edinburgh, in the county of Mid Lothian, North Britain, Writer to the Signet, for the invention of "Improvements in shirts."

2600. To THOMAS GREENWOOD and JOHN BATLEY, of Leeds, in the county of York, Machinists, for the invention of "Improvements in the construction of the beds of lathes, and the tables of planing machines."

2601. To GEORGE TAYLOR, of the firm of Taylor Brothers, and Company, of Clarence Iron Works, Leeds, in the county of York, Ironmaster, for the invention of "An improvement in the mode of manufacturing wrought-iron crank axles."

2602. To JAMES BURROW, of Ashford Parsonage, Bakewell, Clerk, for the invention of "Improvements in umbrellas and parasols."

2603. And to JAMES WARD, Truss Maker, and HENRY BURMAN, Brick Maker, both of Stratford-on-Avon, in the county of Warwick, for the invention of "Improvements in machinery for making bricks and tiles, and for moulding peat and plastic substances."

On their several petitions, recorded in the office of the Commissioners on the 16th day of November, 1859.

2604. To JEROME ANDRÉ DRIEU and AUGUSTE LEGEAY, of No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, for the invention of "A tissue, being a substitute for leather, mill-board, and papier-maché."

2605. To ISAAC WHITE, of Nailsea, in the county of Somerset, Glass Manufacturer, for the invention of "Improvements in glass furnaces."

2606. To DAVID JONES, of Dartmouth Street, Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in metallic casks."

2607. To RICHARD LAMING, of Clifton Villas, Maida Hill West, in the county of Middlesex, for the invention of "Improvements in obtaining alkalies and alkaline compounds."

2608. To THOMAS ROBINSON, of St. Helens, Lancashire, for the invention of "Improvements in steam engines."

2609. To JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, for the invention of "An improvement in the manufacture of paper."

2610. And to JAMES MCKENZIE, of No. 16, St. Martins-le-Grand, in the city of London, and STEPHEN THOMAS WENTWORTH, of the same place, Gas Engineers, for the invention of "Improvements in breech-loading fire-arms."

On their several petitions, recorded in the Office of the Commissioners on the 17th day of November, 1859.

2611. To JOHN HENRY BRIERLEY, Small Ware Manufacturer, residing at No. 19, Milton Place, Halifax, Yorkshire, for the invention of "A belt or band fastener."

2612. To WILLIAM GOSSAGE, of Widnes, in the county of Lancaster, Chemist, for the invention of "Improvements in the manufacture of carbonate of soda."

2613. And to JAMES PINCHBECK, of Camden Street, Islington, in the county of Middlesex, for the invention of "Improvements in consumer's compensating gas meters, which are partly applicable to ordinary consumers' meters."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of November, 1859.

2615. To SAMUEL CORBETT, of Wellington, in the county of Salop, Agricultural Implement Manufacturer, for the invention of "An improvement or improvements in pulpers for pulping food for cattle."

2616. To WILLIAM CLARK, of No. 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in the preservation of animal and vegetable matters."—A communication from abroad by Louis Joseph Frederic Margueritte, of Paris, Chemist."

2617. To WILLIAM BLINKHORN, of Sutton, near St. Helens, in the county of Lancaster, Manager of the London and Manchester Glass Company, for the invention of "The novel application of certain materials to the manufacture of bricks, quarries, or tiles to be employed principally in the construction of furnaces as 'fire-bricks.'"

2618. To JOHN KNIGHT, of Newton Heath, near the city of Manchester, Manager, for the invention of "Certain improvements in or applicable to looms for weaving, part of which is applicable to lubricating axles and bearings for other purposes."

2619. To EDWARD BARLOW, of the firm of Messieurs Dobson and Barlow, Machine Makers, of Bolton-le-Moors, in the county of Lancaster, and FRANCIS HAMILTON, of the same place, Manager, for the invention of "Certain improvements in carding engines."

2620. To AUGUSTE HONORÉ LE PONTOIS, of L'Orient, town in the French empire, Merchant, for the invention of "Improvements in machines for distributing seed and manure."

2621. To JOHN BANCROFT, of Halifax, in the county of York, for the invention of "Improvements in the manufacture of fabrics adapted to be used for

curtains, coverings of furniture, table covers, and such like uses."

2623. To Auguste Godchaux, Editor, of Paris (empire of France), and of No. 45, Essex Street, Strand, London, for the invention of "Improvements in the mode of printing forms, or models, or copies of penmanship and designs on paper, and other fabrics."

2624. To John Petrie, junior, of Rochdale, in the county of Lancaster, Machine Maker, and John Lord, of Manchester, in the said county, Manufacturer, for the invention of "Improvements in machinery or apparatus for drying rags, wool, and other fibrous materials."

2625. To Alfred Vincent Newton, of the Office of Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Improvements in the mode of and machinery for drying cloths."—A communication from abroad by Bezaleel Sexton, of East Windsor, in the county of Hartford, and state of Connecticut, United States of America.

2627. To George Laidlaw, of Glasgow, in the county of Lanark, North Britain, Hat Manufacturer, for the invention of "Improvements in hats and other coverings for the head."

2628. And to Henry Naylor, Twister, and William Crossley, Manufacturer, both of Calder Vale, near Todmorden, in the county of Lancaster, for the invention of "Improvements in pickers used in looms for weaving."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of November, 1859.

2630. To Pierre Jochem, of Paris, France, Gentleman, for the invention of "Improvements in brakes for railway and other carriages."

2632. To Joseph Cowan, of Liverpool, in the county of Lancaster, Cabinet Maker, for the invention of "Improvements in 'bracing' or connecting the angles or corners of chairs and other like articles of cabinet-furniture."

2636. And to Joseph Apsey, of Cornwall Road, Lambeth, in the county of Surrey, Engineer, and William George Buckwell, of the Phœnix Stone Works, East Greenwich, in the county of Kent, Engineer, for the invention of "Improvements in boilers and other furnaces, smoke consuming and steam generating."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of November, 1859.

2638. To Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W.C., for the invention of "Improvements in weaving silk and other materials, and in the machinery or apparatus employed therein."—A communication from abroad by Horace Verzier, Manufacturer, residing at Lyon, in the empire of France.

2640. To James Shand, of No. 245, Blackfriars Road, in the county of Surry, Engineer, and John Rowley, of No. 3, St. George's Road, Notting Hill, in the county of Middlesex, Gentleman, for the invention of "Improvements in fire engines, part of which improvements are applicable to other pumps."

2644. To William Edward Newton, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Certain improvements in obtaining compensation for the effects of changes of temperature in time-keepers."—A communication from abroad by Henry Boehm James, of Trenton, in the county of Mercer, and state of New Jersey, United States of America.

2646. And to Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for the invention of "An improvement or improvements in the manufacture of iron and steel."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of November, 1859.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

2nd December, 1859.

1371. James Burrow, of Ashford Parsonage, Bakewell, in the county of Derby, Clerk in Holy Orders, and William Newton Wilson, of 144, High Holborn, in the county of Middlesex, for an invention of "An improved floor scrubber and sweeper for carpets, floors, lawns, and other such like useful purposes."—Dated 3rd June, 1859.

1378. James Wood and William Wood, both of the town and county of the town of Nottingham, Lace Manufacturers, for an invention of "A peculiar mode or method of dying lace or other fabrics, and making the same into bonnet and cap fronts, or other articles."—Dated 4th June, 1859.

1383. James Ferrabee, of the Phœnix Iron Works, Stroud, in the county of Gloucester, Engineer, for an invention of "Improved machinery for forming bats of fleece or sheet sliver, and also for folding cloth and other fabrics."—Dated 6th June, 1859.

1388. William Bryer Nation, of Union Row, Union Bridge, Rotherhithe, London, Analytical Chemist, for an invention of "Improvements in the manufacture of superphosphate of lime."—Dated 7th June, 1859.

1573. Samuel Fisher, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "Improvements in ordnance and projectiles."—Dated 1st July, 1859.

2022. Frederick Collier Bakewell, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, for an invention of "Improvements in the manufacture of caustic alkalies."—A communication from abroad by Henry Pemberton, of East Tarentum, U. S. North America.—Dated 5th September, 1859.

2377. Joseph Reynolds, of 21, Bull and Mouth Street, city of London, Engineer, for an invention of "Improvements in the manufacture of wrought nails."—A communication from abroad by Henry Coggshall, of Providence, R. I., U. S. of America.—Dated 18th October, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 30th November, 1859, inclusive.*)

28th November.

2839. JOHN GIBSON, of Paddington, in the county of Middlesex, Engineer, for an invention of "Improvements in buffing and drawing apparatus."—Dated 1st December, 1856.

30th November.

2841. EDWARD JACKSON EMMONS, of the state of Massachusetts, of the United States of America, for an invention of "A new or improved nursery chair."—A communication from Joshua Stevens, a resident of the aforesaid state of Massachusetts.—Dated 1st December, 1856.

2849. JOHN LONGBOTTOM, of Leeds, in the county of York, Gas Engineer, for an invention of "Improvements in apparatus for drying, roasting, carbonizing, and calcining vegetable, mineral, and animal substances."—Dated 2nd December, 1856.

2861. FREDERIC SIEMENS, of 7, John Street, Adelphi, London, Engineer, for an invention of "Improved arrangement of furnaces, which improvements are applicable in all cases where great heat is required."—Dated 2nd December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 30th November, 1859.*)

939. JAMES NEWALL, of Bury, in the county of Lancaster, Railway-carriage Builder, for an invention of "Improvements in breaks, machinery, or apparatus applied to railway and other carriages in motion, and in the mode or method of connecting two or more of such breaks together."—Dated 3rd December, 1852.

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.

UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 15th November, 1859, and each bearing that date.

No. 26,075. JAMES ALBRO, of Elizabeth, N.J., for a "Method of printing floor cloth."

"I claim the production of grained or variegated designs upon oil cloth, by applying the printing blocks to cushions or pads, upon which the colors have been previously 'grained' or 'combed,' as herein set forth."

No. 26,076. WM. H. ARNOLD, of Washington, D.C., for an "Improvement in breech loading fire arms,"

"I claim, 1st, the combination of cap lever L, shackle piece C, pin *e*, and grooves *i*, with the breech piston P, for operating the same, substantially as described. 2nd, the combination of slide piece *k* joined, as described, with the pin *a*, and hammer H, operating substantially as and for the purpose set forth. 3d, the cavity *m*, in the piston P, for the reception of the rear projecting tail piece of the projectile, as set forth."

No. 26,077. J. M. BAIRD, of Wheeling, Va., and LEVI F. SMITH, of Stonington, Conn., for an "Improved reclining chair."

"We claim, first, the combination and arrangement of the oscillating pedestal A, vertical lever B, the sliding seat frame C, and stand D, substantially as and for the purposes described. Second, we claim, in combination with the fall L, the vibrating foot board P, the oscillating bars H, and pitman F, or their equivalents, operating in the manner and for the purposes as described."

No. 26,078. WM. H. BAKER, of Tamaqua, Pa., for an "Improvement in mechanical movement."

"I claim the drum B, placed loosely on the shaft C, and having ropes or chains *l*, *m*, and a weight or weights attached to it, as shown, in connection with the toothed spring L, toothed wheel E, train of wheels *i*, fly wheel G, and cam H, fitted between the friction rollers *j* of the shaft I, the whole being combined and arranged to operate as and for the purpose set forth."

No. 26,079. WM. C. BAMBERGER, of Washington, D.C., for an "Improved gauge for iron axles."

"I claim an axle gauge constructed and operated substantially in the manner described."

No. 26,080. JACOB W. BANTA, of Buffalo, N.Y., for an "Improvement in ship building."

"For the purpose of combining great strength and sharpness in the construction of the bows of vessels, of twenty or more tons burthen, I claim extending the planking upon both sides of the bow, and uniting their contiguous ends forward of the dead wood, the planking and dead wood being chamfered, to admit of such extension and union, substantially as herein described."

No. 26,081. JAMES BIDWELL, of New York, N.Y., for an "Improvement in burr cylinders."

"I claim securing the toothed plate D in place, by providing them with projections or recesses, to fit to corresponding

recesses or projections, provided in or on the interposed packing rings fitting to the body of the cylinder, substantially as herein described."

No. 26,082. Aaron Bowers, Jacob H. Griggs, and John Wilson, of Monmouth, Ill., for an "Improvement in mole ploughs."

"We claim the combination of the peculiarly constructed mole A, with the scrapers *a*, *a*, and presser D, arranged and operating in relation to each other, as and for the purposes set forth."

No. 26,083. Adolfus Brass, of Newark, N.J., for an "Improved tool for cutting corks."

"I claim a cutter, consisting of two curved blades *e*, *e*, two spring or hinged arms *x*, *x*, and a sliding ring c^1, with extensions, substantially as and for the purposes set forth."

No. 26,084. Isaac A. Brownell, of Providence, R.I., for an "Improvement in machine for packing starch, &c."

"I claim the tunnel T, as constructed for the purpose, substantially as herein above described. Second, I claim attaching the cans *i*, *i*, to upright strips of wood or metal, which receive and transmit to the said cans the motions which reduce in bulk the commodity placed therein. Third, I claim the wheel F, or its equivalent, for holding or carrying the blocks *h*, *h*, in combination with the cam wheel G, or its equivalent, and the studs *l*, *l*, &c., for imparting the motions which reduce the commodity in bulk, and also the intermitting rotary motion to the wheel F, for the purpose set forth. Fourth, I claim the arrangement of the foot lever *u*, and the rod *v*, and the punch *s*, with the rod and plate *j*, for the purpose specified. I also claim, in combination with the punch *s*, the pawl *w*, rod *y*, and sliding hub *x*, for liberating the wheel F at the proper time. Fifth, I claim the rail *a*, *a*, and the studs *r*, *r*, &c., with the stop O, for withholding, in the manner and for the purpose specified."

No. 26,085. Joseph Bullock, of Cohoes, N. Y., for an "Improvement in knitting machines."

"I claim the employment, in combination with such a circular series of stationary needles, of a series of lever-like jacks F, applied substantially as herein described, and having a movement between the needles in a direction radial to the centre of the machine, as described, but no rotary motion."

No. 26,086. George T. Bushnell, of Birmingham, Conn., for an "Improved martingale ring."

"I claim, as a new article of manufacture, a martingale ring, whose exterior edge is thinner than the interior, in combination with an exterior band, whose edges extend down upon the sides of the ring, forming a hollow or corrugated band on its surface, substantially as described, for the purposes as aforesaid."

No. 26,087. John T. Butler, of Natchez, Miss., for an "Improvement in fastening metal hoops on cotton bales."

"I claim the combination of the buckle frame A, when made without any opening in the border of it, with the hooks C, C^1, when the latter are received through the former and held in place by the pressure of the bale against them, substantially as described and represented."

No. 26,088. Lysander Button and Robt. Blake, of Waterford, N. Y., for an "Improvement in nozzles for fire-engines, &c."

"We claim the removable ring B, constructed and combined with the adjutage, substantially as herein set forth."

No. 26,089. Wm. L. Carter, of Marietta, Pa., for an "Improved ore washer."

"I claim a double conical-shaped vessel, provided with teeth or cutters inside at the end where the ore is received, and the grinders G, with the means described for supporting and adjusting the same, substantially as specified."

No. 26,090. Cyrus Chambers, jr., of Philadelphia, Pa., for an "Improvement in machines for folding paper."

"I claim, first, so arranging the drop roller that it shall co-operate with one of the feeding rollers in feeding in the sheet. Second, forming grooves in the folding rollers for the reception of the adjustable guides, as described. Third, the combination of the carrying roller with the folding roller for carrying in the sheet. Fourth, giving the curved bars a projection beyond the surface of the rollers, for the purpose of raising or bearing off the sheet from the folding roller, substantially in the manner described. Fifth, moving the folding knife in an arc around one of the folding rollers, as and for the purpose specified. Sixth, placing the centre of the arc in which the folding knife moves near or within the periphery of the roller, around which it moves, substantially as and for the purpose set forth. Seventh, corrugating the sheet as it passes from one folding mechanism to a position to be acted upon by the next, for the purpose described. Eighth, turning or conducting the paper by means of the bent bars 13 or 22, or their equivalents, substantially in the manner specified. Ninth, the combination of the bent bars with the straight bars and adjustable stop, arranged substantially in the manner described. Tenth, the combination of the bent bars with the tapes and stop, for the purpose specified. Eleventh, the oscillating packer or plunger B, having its centre of motion below the point of contact with the folded sheet, as set forth. Twelfth, the yielding catches for preventing the return of the packed sheets, constructed and operating substantially as described. Thirteenth, making one or more notches in the plunger for clearing the yielding catches, as set forth and shown."

No. 26,091. George E. Chenoweth, of Baltimore, Md., for an "Improvement in harvesters."

"I claim the described arrangement and combination of the finger bar and main frame, whereby the bar can be folded forwards, to the side of the machine with its front downwards, so that the platform can remain attached to the bar, and occupy a vertical plane therewith when folded to this position, all as described and represented in the foregoing specification and the accompanying drawings."

No. 26,092. Philip L. Clow, of Cohoes, N.Y., for an "Improved churn."

"I claim, first, hanging the outer parts *a*, *a*, a^1, a^1, of the two contrarily revolving dashers B, B^1, to the central portions *c*, c^1, by hinges *d*, in the manner and for the purposes herein set forth. And second, I also claim the arrangement of the air pump E, and water reservoir F, with the revolving dashers B, B^1, and cream vessel G, as and for the purpose herein described."

No. 26,093. Aaron S. Cornell, of New York, N.Y., for an "Improved rotary churn."

"I claim the arrangement of the rotating shafts armed with the concave or recessed crags or dashers within the two concave or half cylinder chambers, placed back to back, as herein described."

No. 26,094. Hunter Davidson, of United States Navy, for an "Improved apparatus for working ships' boats."

"I claim the boat apparatus consisting of the reel, the attaching and detaching hooks, constructed and operating substantially as specified."

No. 26,095. Thomas H. Dodge, of Washington, D.C., for an "Improvement in mowing machines."

"First, I claim the arrangement and combination of the levers, standards, and cords *i*, *i*, or their equivalents, with shoe C, whereby the driver, from his seat on the machine, can elevate either end of the finger bar, independently of the other, or the entire bar, substantially as described for the purposes specified. Second, I claim the combination of the cutting apparatus with the main frame and mechanism represented in figs. 2 and 16 or its equivalent, so constructed and arranged, that the driver can without leaving his seat on the machine, fold up and unfold the finger bar, without taking hold of it with his hand, substantially as and for the purpose stated. Third, I claim the combination and arrangement of the levers G, G^1, with the driver's seat E, and cord or chain h^1, whereby the driver may when necessary employ both his hands and his feet, together with the power of the team, to raise the finger bar, and cutting apparatus, substantially as set forth. Fourth, I claim so combining mechanism with the machine, as that the driver can employ the power of the team to assist to elevate the finger bar and cutting apparatus at pleasure, without changing the horizontal position of the main frame substantially as described. Fifth, I claim in a reaping and mowing machine, the folding guard F, and rein hitch *h*, in combination with the driver's seat, substantially as and for the purposes set forth. Sixth, I claim the flexible or adjustable draft connection b^1, or X, to which the team is attached, in combination with the coupling arm *a*, and shoe C, substantially as and for the purposes set forth. Seventh, I claim the spiral cutters *k*, when constructed and arranged as shown in fig. 11, and operating substantially as and for the purposes set forth. Eighth, I claim hinging the track clearer to the extension piece (j^1), or its equivalent, by means of the cranks *j*, *j*, for the purposes described. Ninth, I claim so constructing the track clearer,

that its weight may be adjusted in the manner and for the purposes substantially as set forth."

No. 26,096. Miles Earnhart, of Cold Water, Miss., for an "Improvement in cotton scrapers."

"I claim the arrangement and combination of the double adjustments of the mold board E, with the stock C, and rigid supporting brace G, substantially as and for the purpose herein specified."

No. 26,097. Moses G. Farmer, of Salem, Mass., for an "Improvemént in telegraphic machines."

"I claim the use of a key or circuit breaker, which shall close one circuit before or at the same time that it opens another, in connection with an electro-magnet with two sets of helices operating on one and the same armature lever, or two separate electro-magnets, operating upon one and the same armature lever, for the purpose of transmitting two messages simultaneously upon a single wire."

No. 26,098. Wm. Frost, of Amenia, N. Y., for an "Improved milk can."

"I claim a milk can provided with tinned iron hoops B, with their ends connected together by rivets *b* and solder *a*, either or both, and secured on the can by solder, to form an improved article of manufacture, as set forth."

No. 26,099. Rollins Germain, of Buffalo, N. Y., for an "Improvement in the construction of ships and other navigable vessels."

"I claim, 1st, vessels for navigation when the bow and stern sections shall taper uniformly, and the vessel below its water lines be of the form and model substantially as described, and when the relative proportions as to length, breadth of beam, and draught of water, shall be such that—if a right line be drawn longitudinally through the middle, commencing at the water line at the bow and terminating at the water line at the stern, (when the vessel is loaded,) and another line be drawn at right angles to said line along the water surface from the water line on one side to the water line on the other side, at the middle of the part of the vessel where a cross section below the water line is greatest, and from every point in this last described line right lines be drawn to each end of the first described line,—the average of all the angles made by these last lines with the first-described line shall not exceed two degrees. 2nd, the combination of the fin-like projection V with a vessel constructed below its water lines, substantially as herein described. 3d, the combination of the overhanging deck with a vessel constructed below its water lines, substantially as herein described. 4th, constructing the pilot house and smoke stacks (separately) in respect to their forward and rear parts, in a tapering or wedge-like form, substantially as herein described. 5th, the combination of the notched plates C, C, the iron knee D, and rivets E with a vessel constructed substantially as described for the purposes set forth."

No. 26,100. James Giles, of Dryden, N. Y., and C. B. Tompkins, of Wysses, N. Y., for an "Improvement in cylinders for smoothing walks, &c."

"We claim making cylinders for rollers and other purposes with grooved metal flanges, into which wood staves are fitted, which form the rolling surface, substantially as described, and for the purposes specified. Also, the mode of making and applying cross bars between rollers when two or more cylinders are required for smoothing surfaces, as described."

No. 26,101. George Hamel, of Abington, Pa., for an "Improvement in apparatus for starting city railroad horse cars."

"I claim the relative arrangement of the levers (E, E,) the pawls (F, F), in combination with their rest pins (*u*) and inclined planes (u^1, u^1), the draw bar (D) in combination with the inclined pieces (S, S,) and the staying pins (*p* and *q*), or their equivalents, for holding and releasing the draw bar (D), the same being constructed and arranged to operate substantially in the manner and for the purposes specified and described. I also claim, in combination with the said draw bar (D), the devices H, I, K, L, and M, the same being arranged so as to be operated by the cam (N) for their readjustment, substantially in the manner set forth and described."

No. 26,102. Jacob E. Hardenbergh, of Fultonville, N. Y., for an "Improvement in potato harvesters."

"I claim, 1st, the employment or use of the adjustable share N, in connection with the rotary screen P, and with or without the discharging device Q, the parts being applied to a mounted frame, and arranged to operate substantially as and for the purpose set forth. 2nd, the rotary discharging device Q placed eccentrically on the screw P, kept in proper relative position therewith by the plate R, and rotated from the screen P by the projection *q*, substantially as described. 3rd, the combination of the share N, rotary screen P, and discharging device Q, when attached to a mounted frame A, and arranged substantially as shown, so that the screen and discharging device may be adjusted independently of the share and the discharging device Q, rotated by the screen P, and kept in an eccentric position thereon for the purpose specified."

No. 26,103. Albert H. Hook, of New York, N. Y., for an "Improvement in machines for grinding glass."

"I claim the combination of the inclined carriage *c* and cylinder *i*, arranged and operated in the manner and for the purposes specified."

No. 26,104. Elisha G. Hopkins, of Penn Yan., N. Y., for an "Improved bedstead fastening."

"I claim the construction and arrangement of the parts, C, D, E, and F, substantially as specified, and for the purpose set forth."

No. 26,105. M. G. Hubbard, of New York, N.Y., for an "Improvement in harvesters."

"I claim the universal joint 'O' in the reel, in which the arms and wings are pivoted, or flexible and yielding, substantially as above specified. I also claim the combination of the flexible reel 'G,' with the flexible platform 'D,' substantially in the manner and for the purposes specified. I also claim the outer reel arm 'S,' in combination with the flexible reel and platform, as herein described."

No. 26,106. Daniel Hughes, of Rochester, N.Y., for an "Improved propeller."

"I claim the arrangement of the spiral screw propellers C, C^1, so that their blades shall work nearly in contact, and thus present a broad, unbroken, resisting surface, substantially as and for the purposes herein shown and described."

No. 26,107. Wm. J. Innis, of Providence, R. I., for an "Improved belt-awl and punch."

"I claim the combination of the punch-awl and spring handle, substantially as described."

No. 26,108. Enoch Jacobs, of Cincinnati, O., for an "Improved fastening for jail doors."

"I claim 1, making the casings of heavy iron doors of double angle iron, substantially as described. 2, fastening iron doors by swinging bars working in the outside cavity of the double angle iron casing, substantially in the manner and for the purpose set forth."

No. 26,109. Thos. A. Jebb, of Buffalo, N.Y., for an "Improved churn."

"I claim the arrangement of the short dash blades H, and long dash blade H^2, relatively to each other, and to the segmental stave B, so that the short dash blades will revolve within, and the long dash blade under the lower beveled end of the segmental stave, substantially as herein set forth."

No. 26,110. Arthur E. Jerome, of Monroeville, O., for an "Improvement in seeding harrows."

"I claim, 1st, making the axis on which the harrows rotate, hollow, and in the form of a drill tooth, substantially as and for the purposes set forth. 2nd, combining a corn planter, or a broad cast sower with the harrows, substantially as and for the purposes set forth."

No. 26,111. W. T. Jones, of Joliet, Ill., for an "Improvement in ploughs."

"I claim the attaching of the mould board E, land side F, and share G, to the standard C, by means of a joint or hinge, the plates or leaves *e*, *f*, of which are provided with screws, and arranged substantially as and for the purpose set forth. I also claim constructing the standard C with a forked upper end, in connection with the rod D, lug *h*+, and flanch *f*, arranged substantially as shown, to admit of the proper attachment of the beam and handles to the plow."

No. 26,112. J. G. Kappner, of New York, N. Y., for an "Improved billiard table."

"I claim the combination with the cushion rail B of the circular guide plate C, pivoted cross arm E, and hook (*c*), as and for the purpose herein shown and described."

No. 26,113. John Kimball, of Boston, Mass., for an "Improved machine for rabbeting wooden soles for shoes."

"I claim, first, the combination of the convex guide rest G with the pressure roller J and feed roller E when arranged substantially as and for the purpose set forth. Second, I claim, in combination with the rotary cutters and feed rollers E, the fixed tool P, when used in the manner and for the purposes herein set forth."

No. 26,114. Wm. A. Kirby, of Buffalo, N.Y., for an "Improvement in harvesters."

"I claim locating the raker's seat over the open space at the side of the platform, so that the delivery may be at any point along the whole side of said platform that the raker may desire, substantially as herein described and represented."

No. 26,115. Wm. S. Mathews, of Meriden, Conn., for an "Improved beer pitcher."

"I claim a pitcher A with two strainers F and G, one at the bottom and the other at the top of a partition E, and otherwise constructed as herein specified."

No. 26,116. Louis Meyer, of Columbus, Geo., for an "Improved extension table."

"I claim the beveled arms or braces G, G, G^1, G^1, central cross piece B, and stops b, b, b, b, on the brace arms, when they are all combined and arranged as and for the purposes herein set forth."

No. 26,117. David Mumma, jr., of Harrisburgh, Pa., for an "Improvement in mode of operating brakes on railroad cars."

"I claim the employment of a movable plate E, or its equivalent, provided with a shoe x, when in combination with a friction wheel (n), a lever D, and wheel (a), all so arranged that friction from said shoe and plate may be applied in the manner and for the purposes substantially as set forth. I claim the arrangement of the brake chain attached to the axle (o), as described, so the said axle may be employed as a lever, for the purposes set forth."

No. 26,118. J. D. Otstot, of Springfield, O., for an "Improvement in potato harvesters."

"I claim the arrangement and combination of the bent lever (h, h^{11},) excavator (d), rotary rake (k, k^1, k^{11},) hopper (l, l), and driving wheels B, B, substantially in the manner and for the purpose set forth."

No. 26,119. George F. Palmer, of Farmington, N. Y., for an "Improved machine for making wooden boxes."

"I claim, first, the arrangement of the cutters a, b, in combination with the stationary saws H and K, and with the adjustable saws J and N, substantially as and for the purpose specified. Second, the employment of the expanding sliding platforms I and M, arranged in combination with the saws H, K, J, and N, substantially as and for the purpose specified."

No. 26,120. John Patton, of Arcadia, Ind., for an "Improved washing machine."

"I claim the spiral springs J, clamp I, the hook K, in combination with the groove in the cylinder C, poles H, chains F, cross pieces G, rollers D, board B, compound wringer and rinser o and O^1, cylinder C, when operated as herein described."

No. 26,121. Isaac N. Pyle, of Decatur, Ind., for an "Improvement in cultivators."

"I claim the arrangement and combination of the curved pivoted wing rods A, A, curved adjustable central rod C, looped sockets F, vertical movable standards J, rods M, braces L, and handles E, as and for the purpose herein shown and described."

No. 26,122. J. R. Perry, of Port Clinton, Pa., for an "Improved machine for cutting tenons."

"I claim, 1st, the combination of the right and left hand screw L with the cutter heads K, in the manner and for the purpose set forth. 2ndly, constructing the cutter bits with lugs to receive the shoulder bits, as herein specified."

No. 26,123. John Pyne and Washington Barr, of Harrisburgh, Pa., for an "Improved egg-beater or ice cream freezer."

"We claim an ice cream freezer or egg-beater the bottom having corrugated perforated circles in which the shafts and wires of the dasher revolve, as and for the purposes above set forth and described."

No. 26,124. George M. Ransom, of United States Navy, for an "Improvement in apparatus for elevating cannon."

"I claim the application of trunnions and bearings (or equivalents) to the nut, in combination with jointing or hinging the upper end of the upper screw to the cascable or to a saddle attached to or supporting the cascable. I also claim the combination of the cascable saddle with the elevating screw and cascable of the gun."

No. 26,125. John H. Redstone and Albert E. Redstone, of Indianapolis, Ind., for an "Improved lath machine."

"We claim, first, operating the knife plate H, H, by the sliding bar C, C, and groove or yoke E, in combination with the roller F, when attached to the knife plate H, H, substantially as set forth. Secondly, the guides Q and Q, roller R, slide S, S, pins T, L, and L, and slots Y, O, and O, when combined and operated as set forth."

No. 26,126. Nathan F. Rice, of New Orleans, La., for an "Improvement in baker's ovens."

"What I claim is, the bakery herein-before described, constructed, arranged, and operating as specified, the same consisting of a series of ovens placed on different floors of a building, and heated successively, by products of combustion, directed and controlled by the described combination of flues, dampers, and air chambers, arranged and co-operating as shown."

No. 26,127. Albert C. Richard, of Newtown, Conn., for a "Letter envelope."

"I claim, as a new article of manufacture, a letter envelope having the properties fully set forth herein for the purpose as described."

No. 26,128. George D. Sharp, of New York, N.Y., for an "Improved billiard table cushion."

"I claim the combination of the hollow cushion, with a square, or slightly beveled face for the ball to impinge against thus producing a spring of greater ductility than other billiard table cushions have."

No. 26,129. S. A. Shurtleff, of North Carver, Mass., for an "Improved fire-iron for the use of shoemakers."

"I claim the adjustable beading-plate D, applied to a stock B, and arranged substantially as shown, to form an improved article of manufacture for the purpose specified."

No. 26,130. E. C. Singer, of Port Lavaca, Texas, for an "Improvement in sewing machines."

"I claim the feed device, the essential features of which are the plate l, the block p, and the lever m, and stop s, operated by the grooved sliding bar Q, arranged and constructed, substantially in the manner and for the purposes set forth."

No. 26,131. Ferdinand M. Sofge, of Macon, Geo., for an "Improved billiard register."

"I claim the arrangement of springs a, b, and c, operated by means of cylinder A upon tallcy d, as and for the purpose herein described. I also claim, in combination with the above, the cylinder C, in connection with the tally 1 and 2, or any number of tallies, and springs h, constructed and operating as and for the purpose above set forth."

No. 26,132. W. H. Tupper, of New York, N.Y., for an "Improvement in pouncing hat bodies."

"I claim the employment of an air blast to cleanse and hold the body G, within the hollow cone F, while the said body is being rotated and pounced as herein shown and described."

No. 26,133. JOHN F. TOWNSEND, of Brenham, Texas, for an "Improvement in ploughs."

"I claim the arrangement and combination of the land side A, standard B, C, mould board H, share F, braces or arms D, E, I, and cross bar G, substantially as and for the purpose set forth."

No. 26,134. W. H. RODGERS, of New York, N. Y., for an "Improvement in machines for inserting eyelets."

"I claim single punch B, operated as described, in combination with the connection lever A, cutter D, and yielding spring guide point F."

No. 26,135. WM. T. VOSE, of Newtonville, Mass., for an "Improved portable pump."

"I claim an improved pump as constructed, with a barrel and the foot stand, or rest, combined and arranged together, substantially as described."

No. 26,136. EDWARD WIEBÈ, of Brooklyn, N.Y., for a "Mode of advertising.'

"I claim the above described mode of exhibiting advertisements, when operated automatically, substantially in the manner set forth."

No. 26,137. JOSEPH A. WOODWARD, of Philadelphia, Pa., for an "Improved signal bell."

"I claim the lever escapement bar L, E, B, constructed substantially as described, with the elliptical slot and projecting point (x, x) in combination with the projecting point (x) of the hammer or striking arm (S, A), the whole arranged substantially as described, and for the purpose set forth."

No. 26,138. WM. WRIGHT, of Hartford, Conn., for an "Improvement in steam pumping engines."

"I claim, first, the application of the forked yoke, inclined arms and levers, in conjunction with an independent hydraulic cylinder or engine for working the valves of a steam engine properly, opening and closing them, and effecting the cut-off at the proper points, and performing all the offices and obtaining all the useful results of a well regulated and effective valve gearing. I also claim the combination of the forked frame and inclined arms, for controlling and regulating the length of stroke between certain points on the faces of said planes, and graduating it between these points, at the will and pleasure of the engineer, so as to reduce the clearance in the steam cylinder to a minimum. I also claim the manner in which the main valve of the hydraulic cylinder is brought into action at proper and fixed intervals, and working the steam valves of the engine, independently of the forked frame and its inclined arm, should the latter part of the gearing fail, from any cause, to assist in performing their duty. I also claim the application of the auxiliary valve, in combination with the main valve of the hydraulic cylinder, for effecting at the proper point the opening of the steam valves instantaneously and ahead of the steam piston, or, in other words, for giving the lead to the valve as effectually as an eccentric will on a crank engine, and forming a cushion for the piston at the end of the stroke, reversing the movement and holding the valves wide open until the cut-off is accomplished, substantially in the manner described. I also claim the mechanism for accomplishing positively the cut-off, and insuring the closing of the valves, and in connection therewith, the method of regulating and adjusting the same to any required point of the cut-off that the beneficial working of the engine may demand, as explained."

No. 26,139. WM. WRIGHT, of Hartford, Conn., for an "Improvement in pumps."

"I claim, first, the construction of the pump, by the application of an auxiliary barrel to the working or bucket barrel, and connecting both barrels by a double beat valve, thus effecting a combined opening through the auxiliary and the bucket valves, with a minimum lift of said valves greater than the area of the pump itself, and obviating to a great degree the frictional resistances that would be produced by passing all the water through the pump bucket valves alone, preventing all throttling, and permitting the engine to work more regularly and economically, substantially as described. I also claim the placing of one pump above the other, when made as above described, and connecting both together, and passing the load of one through the working and auxiliary barrels, and the bucket and auxiliary valves of the other, and vice versâ, thus allowing the engine to have complete control over the column of water, substantially as described."

No. 26,140. SAMUEL K. ZOOK, of New York, N.Y., for an "Improved mode of telegraphing."

"I claim the construction of telegraphic lines of metallic conductors of a high conducting power, having the portions of the wire conductors, which are between the two telegraphic extremes in the earth, or submerged in the ocean or rivers, not artificially insulated, but using the earth or water as the natural insulator of those parts, in combination with the artificially insulated portions of the wire on each or either side of the battery or batteries, in the manner and for the purposes described."

No. 26,141. CHARLES F. BENNETT, of Warehouse Point, Conn., assignor to Julius H. Baker, of East Windsor, Conn., for an "Improvement in machinery for drying cloth."

"I claim the extra adjusting vibratory arrangements, plate 2, Fig. 7, whereby the cloth can be spread and straightened on the selvage while passing over the rollers, in the manner substantially as herein set forth and described."

No. 26,142. JOHN BUTTER, of Buffalo, N.Y., assignor to James A. Saxton, of Canton, O., for an "Improvement in harvesters."

"I claim the combination of the shoe L, with hinged and adjusting rods c and N, plate M, and cap k, constructed, arranged, and operating in relation to each other and the main frame, as and for the purposes set forth."

No. 26,143. WM. DARKER, jr., of West Philadelphia, Pa., assignor to J. B. Thompson, of Philadelphia, Pa., for an "Improvement in tempering steel wire."

"I claim combining the drum D, by which the steel ribbon or wire is drawn through the fire and bath with the main or counter shaft, from which it derives motion by means of a pair of cone pulleys and belt, substantially as and for the purpose herein specified."

No. 26,144. JOHN H. DOOLITTLE, of Ansonia, Conn., assignor to Wallace and Sons, of same place, for an "Improvement in making clasps for hoop skirts."

"I claim manufacturing metal clasps for fastening the tapes on hoop skirts, and for similar or analogous purposes, by cutting the 'scraps' from the metal strips A, so that the 'blanks' b will be attached thereto, and while thus connected fed to the swaging or raising device, and swaged in proper form to produce the clasps, substantially as described."

No. 26,145. DARIUS WELLINGTON, of Boston, Mass., assignor to C. Wellington, of same place, for an "Improvement in cocks for waterclosets."

"I claim the employment or use of the valve b and plunger B, connected by the stem C, placed within a suitable cylinder A, and arranged relatively with the supply and discharge pipes D, E, to operate as and for the purpose set forth."

No. 26,146. LEWIS WHITE, of Hartford, Conn., assignor to himself and E. P. Miller, of same place, for an "Improved curtain fixture."

"I claim the application of the bracket and brake E, in combination with the pulley cord and pendant lever K, thus forming a double brake, in the manner substantially as herein set forth and described."

No. 26,147. WM. L. WILLIAMS, of New York, N.Y., assignor to himself and Thos. J. O'Connor, of same place, for a "Machine for bundling kindling wood."

"I claim, first, the follower c, acting to lift a bundle of wood through a ring or opening, and separate the same from the mass of split kindling wood in the trough (b), substantially as specified. Second, I claim the ring separator or the knife p, arranged substantially as set forth, and acting to split or separate from the mass of kindling wood a bundle, as described and shown. Third, I claim the combination of the follower c, and ring separator or knife p, in the manner and for the purposes set forth. Fourth, I claim two (or more) slides h, h, with curved ends acting against and on opposite sides of a bundle of kindling wood to compress the same previous to being secured by a wire or string, as and for the purposes specified. Fifth, I claim the compressing levers n, n, in combination with the slides h, h, to act in

compressing the bundle of wood, as set forth. Sixth, I claim the twisting jaws or pincers t, t^1, fitted to receive the wire, in the manner specified, so that the act of revolving said jaws to twist the wire shall first draw the wire tight, as set forth. Seventh, I claim the weight l, hung on the levers m, m, and acting to bring the ends of the wood level, as set forth."

No. 26,148. HENRY C. RICE, of Worcester, Mass., administrator of the estate of John H. Hathaway, deceased, late of Millbury, Mass., for an "Improvement in rotary engines."

"I claim the combination with the cross head, or its equivalent, which carries the abutment or cylinder F, of the rock shaft I, the toggle J, L, and the vibrating arm M, the whole applied and operating substantially as herein described, in combination with the guide arms H, for the purpose specified. And, in combination with the above mentioned rock shaft, I claim the arm K, slide N, lever P, and eccentric Q, applied substantially as herein described, to produce an intermittent or remittent motion of the said rock shaft, as herein set forth."

No. 26,149. THOS. W. GILMER, of Charlottsville, Va., administrator of John B. Gilmer, deceased, late of same place, for an "Improvement in type setters and distributors."

"I claim withdrawing the type from the type cases, and setting them in line in the composing stick, without the aid of intermediate carrying mechanism, but by the direct application of the composing stick to the type case, substantially as described. I claim distributing the type to the type cases, by the direct application of the distributing stick to said cases, substantially as described. I also claim, in combination with the type case, the holding dog, or its equivalent, arranged and operated, substantially as described, so as to retain the type as they descend opposite the mouth of the case, and release the type when the mouth of the composing stick is in position to receive them. I claim arranging the type case, substantially as described, so that by a retrograde movement of the case, the type are discharged into the composing stick, as described. And I claim, in combination with the composing stick, the spring mouth plate, to hold the type, as they enter the stick. In combination with the spring mouth plate, I claim the lip (l) or its equivalent, arranged substantially as described, to assist in withdrawing the type from the case, and to prevent their turning or falling out of the composing stick, as they are withdrawn from the case. I claim discharging the type into the case through the bottom of the distributing stick, substantially as described. And I also claim, in combination with the distributing stick, a separating and discharging mechanism to the type, arranged substantially as described, so as to separate the front type from the near, and force them into the type case."

RE-ISSUES.

CHARLES G. BLOOMER, of Wickford, R. I., for a "Rim for lockets."—Patented 28th April, 1857.—Re-issued 15th November, 1859.

"I claim a rim for lockets and similar metallic cases formed of sheet metal, in such manner that the face of the field piece within the case, and the exterior surface of the rim, are both formed from the same side or surface of the original sheet metal, and that the field piece and rim are of one piece of metal."

CHARLES G. BLOOMER, of Wickford, R. I., for a "Mode of constructing lockets."—Patented 28th April, 1857.—Re-issued 15th November, 1859.

"I claim the method of imparting the finished shape to case rims of sheet or thin metal, in which the external ring and field piece are one piece of metal, by means of dies, substantially as herein set forth."

MOSES S. BEACH, of Brooklyn, N.Y., for a "Machine for wetting and cutting paper for printing presses."—Patented 25th August, 1857.—Re-issued 15th November, 1859.

"I claim, 1st, the combination with the printing machine of the mechanism herein described, or its equivalent, so arranged as that the paper, as it passes along from the reel to be printed upon, shall be dampened, as set forth, 2nd, the combination with the cylinders C, D, or their equivalents, of the adjustable rollers E, F, or their equivalents, to supply the moisture for the paper, and also to regulate the quantity of that moisture, as set forth. 3rd, the combination with the printing machine of the moisture vessels G, H, or their equivalents, as set forth. 4th, the combination of the cutting knife, with the dampening roll or cylinder, or its equivalent, as set forth. 5th, simultaneously wetting or moistening both sides of the paper, in the manner substantially as described. 6th, leaving the paper dry at the point or line of cutting, substantially as described. 7th, the employment of spring pressure to project the knife, in the manner substantially as herein shown and described. 8th, retiring the knife within circumference of the cylinder by means of the cams R, or their equivalents, as set forth. 9th, catching the knife when retired within the circumference of the cylinder C, retaining it while so retired, and releasing for the operation of cutting by means of the catches e, f, the springs j, and the tripping pins I, or their equivalents, in the manner substantially as described. 10th, the employment of cylinders C, D, or their equivalents, to draw the paper from the reel, to be afterwards cut into sheets, and fed into the printing machine, as set forth. 11th, Breaking or tearing asunder any fibres of paper left uncut by the knife, by the grasp of the cylinder M and roller Q, or their equivalents, as set forth. 12th, giving the conducting or guide tapes K, or their equivalents, a speed greater than that of the paper, as set forth. 13th, the combination of the feeding mechanism, cutting apparatus, and the printing machine, or their equivalents, in the said combination, for feeding the paper from a roll to a printing machine, and cutting or partially cutting it into sheets as it passes along to be printed, as set forth."

THOMAS BLANCHARD, of Boston, Mass., for an "Improvement in bending wood."—Patented 18th December, 1849.—Re-issued 15th November, 1859.

"I claim my improved method of bending wood, substantially as herein-before described."

DESIGN.

HARRISON GROSH, of Liriz, Warwick Township, Pa., for a "Design for carriage bodies."

"I claim the design consisting of the grooved seat B, with the round corners, to ornament the seat of a carriage or buggy body."

ADDITIONAL IMPROVEMENT.

WILLIAM C. ALLISON, of Philadelphia, Pa., assignor to himself and Jno. Murphy, of said Philadelphia, Pa., for an "Apparatus for watering and sweeping railways."—Patented 6th September, 1859.—Additional Improvement dated 15th November, 1859.

"I claim combining a fireplace and flues, or other equivalent heating apparatus, with the water-tank L, for the the purpose specified."

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NOTICE is hereby given, that

1722. JOHN BATKIN WHITEHALL, of the town and county of the town of Nottingham, Engineer, and SAMUEL WHEATCROFT, of the New North Road, county of Middlesex, Engineer, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "Improvements in the construction of certain parts of the apparatus or machinery made use of for manufacturing bonnet and cap fronts rouches and such like articles of millinery."

As set forth in their petition, recorded in the said office on the 23rd day of July, 1859.

1729. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in dyeing yarns, threads, or woven fabrics of wool, silk, cotton, linen, or other fibrous or filamentous material."—A communication from abroad by François Xavier Hurstel, of Paris, Woo Comber.

1732. And CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, has given the like notice in respect of the invention of "Preventing and removing incrustations in steam boilers."—A communication from Jean Claude Chavanne, residing in Lyons, in the empire of France.

As set forth in their respective petitions, both recorded in the said office on the 25th day of July, 1859.

1734. And WILLIAM HENRY BUCKLAND, of Maesteg Iron Works, in the county of Glamorgan, Iron Master, has given the like notice in respect of the invention of "An improved preparation of peat."

1736. And PHILO D. MICKLES, of Syracuse, State of New York, United States of America, has given the like notice in respect of the invention of "An improved spring for railroad and other carriages, and for other uses and applications where springs are required."—A communication from Danforth Johnson, a person resident at Chicago, state of Illinois, U. S. A.

1739. And DEIDAMIA B. HALE, of the city and state of New York, in the United States of America, has given the like notice in respect of the invention of "A new and useful garment for ladies' wear, being a combined dress, waist, or body, and a skirt supporter and bustle."—Partly a communication from Albert W. Hale, of New York, aforesaid.

As set forth in their respective petitions, recorded in the said office on the 26th day of July, 1859.

1744. And JOHN SCOFFERN, of No. 4, Barnard's Inn, in the county of Middlesex, Bachelor of Medicine, has given the like notice in respect of the invention of "Improvements in waterproofing, cementing, and stiffening fabrics and fibrous materials, and also in dyeing fabrics and fibrous materials."

As set forth in his petition, recorded in the said office on the 27th day of July, 1859.

1750. And WILLIAM KENT, of Paternoster Row, in the city of London, has given the like notice in respect of the invention of "A self-acting fan."

1752. And JOHN ASPINALL, of Charing Cross, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in evaporating, and in apparatus for the same, especially applicable to the evaporation of sugar."

1755. And JOHN JACKSON, of Church Street, Spitalfields, in the county of Middlesex, Pen Manufacturer, has given the like notice in respect of the invention of "Improvement in metal pens."

As set forth in their respective petitions, all recorded in the said office on the 28th day of July, 1859.

1761. And POLYNICE AUGUSTE VIETTE, of No. 25, Faubourg de Shaerbeck, near Brussels, a Major

in the service of His Majesty the King of the Belgians, has given the like notice in respect of the invention of "Improvements in engraving on metal, or on other substances decomposable by acids or corrosive salts."

As set forth in his petition, recorded in the said office on the 29th day of July, 1859.

1766. And François Haeck, of Schaerbeck, near Brussels, in the kingdom of Belgium, Gentleman, has given the like notice in respect of the invention of "Improvements in refrigerating apparatus, especially adapted to pumps, or other apparatus for the supply of beer and other liquids."

As set forth in his petition, recorded in the said office on the 30th day of July, 1859.

1782. And Eugene de Bassano, of Brussels, in the kingdom of Belgium, has given the like notice in respect of the invention of "Improvements in the manufacture of artificial fuel, commonly called patent fuel."

As set forth in his petition, recorded in the said office on the 1st day of August, 1859.

1784. And Henry Fletcher, of Swan Court, Manchester, in the county of Lancaster, Engraver, has given the like notice in respect of the invention of "Certain improvements in sewing and embroidering machinery."

As set forth in his petition, recorded in the said office on the 2nd day of August, 1859.

1787. And Auguste Pin, of Castelnaudary, in the department of the Aude, in France, has given the like notice in respect of the invention of "The compounding, preparing, and application of a new sort of paint."

1788. And John Hewett, of the firm of Hewett, Allott, and Walker, Accountants, of High Street, Sheffield, in the county of York, has given the like notice in respect of the invention of "Improvements in self-acting waterclosets."

As set forth in their respective petitions, both recorded in the said office on the 3rd day of August, 1859.

1798. And James Horton, of Handsworth, in the county of Stafford, Brewer, has given the like notice in respect of the invention of "A new or improved water gauge for steam boilers."

As set forth in his petition, recorded in the said office on the 4th day of August, 1859.

1824. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improved means of preventing incrustations in steam boilers."—A communication from abroad by Louis Serbat, of Saint Saulve, France.

As set forth in his petition, recorded in the said office on the 8th day of August, 1859.

1851. And William King Westly, of Leeds, in the county of York, Machinist, has given the like notice in respect of the invention of "Improved machinery for combining, heckling, and preparing to be spun, flax and other fibrous substances."

As set forth in his petition, recorded in the said office on the 10th day of August, 1859.

1862. And William Clark, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Certain improvements in oscillating engines."—A communication from abroad by Messrs. Mark Runkel, of New York City, and Frederick Franch, of San Francisco, in the state of California.

As set forth in his petition, recorded in the said office on the 12th day of August, 1859.

1882. And Charles Glassborow, of Girard Avenue, Philadelphia, in the United States of America, Piano Manufacturer, has given the like notice in respect of the invention of "Improvements in pianos."

As set forth in his petition, recorded in the said Office on the 15th day of August, 1859.

1932. And George Riley, of Elm Tree Lodge, South Lambeth, in the county of Surry, has given the like notice in respect of the invention of "Improvements on helical refrigerators for cooling brewers' and distillers' worts."

As set forth in his petition, recorded in the said office on the 24th day of August, 1859.

1976. And Henry Hutton, of Palace Road, Lambeth, in the county of Surrey, has given the like notice in respect of the invention of "An improved lubricator."

As set forth in his petition, recorded in the said office on the 30th day of August, 1859.

1984. And James Mackenzie, of St. Martin's-le-Grand, in the county of Middlesex, and Stephen Thomas Wentworth, of the same place, Gas Engineers, have given the like notice in respect of the invention of "Improvements in breech loading fire arms."

As set forth in their petition, recorded in the said office on the 31st day of August, 1859.

2165. And Alphonse René Le Mire Normandy, of 67, Judd Street, Brunswick Square, London, Analytical Chemist, has given the like notice in respect of the invention of "Improvements in the application of steam for cooking food."

As set forth in his petition, recorded in the said office on the 24th day of September, 1859.

2208. And Alexander William Williamson, of University College, and Loftus Perkins, of Francis Street, Gray's Inn Road, Civil Engineer, have given the like notice in respect of the invention of "Improvements in steam boilers."

As set forth in their petition, recorded in the said office on the 29th day of September, 1859.

2336. And William Burgess, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Implement Makers, has given the like notice in respect of the invention of "Improvements in reaping and mowing machines."

2338. And Thomas Vicars, senior, Thomas Vicars, junior, and Thomas Ashmore, Engineers, and James Smith, Baker, all of Liverpool, in the county palatine of Lancaster, have given the like notice in respect of the invention of "Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith."

As set forth in their respective petitions, both recorded in the said office on the 13th day of October, 1859.

2352. And James Fernihough, of Dukinfield, in the county of Chester, Engineer, has given the like notice in respect of the invention of "Improvements in the construction of steam boilers and apparatus connected therewith."

2359. And Robert Smith, of Islington, in the borough of Finsbury, Shipowner, has given the

like notice in respect of the invention of "Purification of water and other fluids."
As set forth in their respective petitions, both recorded in the said office on the 15th day of October, 1859.

2398. And RICHARD HOBSON, of Leeds, in the county of York, Doctor of Medicine, has given the like notice in respect of the invention of "Improvements in producing ornamental devices in glass or other transparent substances for decorative or other purposes."
As set forth in his petition, recorded in the said office on the 19th day of October, 1859.

2524. And GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in machinery for grinding and polishing sheets of plate and other glass."—A communication from abroad by J. J. Greenough of Wall Street, New York.
As set forth in his petition, recorded in the said office on the 5th day of November, 1859.

2539. And CHARLES GREEN, of Birmingham, has given the like notice in respect of the invention of "Improvements in the manufacture of tubes suitable for locomotive and other steam boilers."
As set forth in his petition, recorded in the said office on the 8th day of November, 1859.

2568. And WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the city of London, Agricultural Implement Makers, has given the like notice in respect of the invention of "An improvement in mowing and reaping machines."
As set forth in his petition, recorded in the said office on the 12th day of November, 1859.

2576. And AUGUSTUS APPLEGATH of Dartford, in the county of Kent, Engineer, has given the like notice in respect of the invention of "Improvements in surface block printing."
As set forth in his petition, recorded in the said office on the 14th day of November, 1859.

2599. And ROBERT WHITE, of Edinburgh, in the county of Mid Lothian, North Britain, Writer to the Signet, has given the like notice in respect of the invention of "Improvements in shirts."

2601. And GEORGE TAYLOR, of the firm of Taylor Brothers and Company, of Clarence Iron Works, Leeds, in the county of York, Iron Master, has given the like notice in respect of the invention of "An improvement in the mode of manufacturing wrought iron crank axles."
As set forth in their respective petitions, both recorded in the said office on the 16th day of November, 1859.

2621. And JOHN BANCROFT, of Halifax, in the county of York, has given the like notice in respect of the invention of "Improvements in the manufacture of fabrics adapted to be used for curtains, coverings of furniture, table covers, and such like uses."

2627. And GEORGE LAIDLAW, of Glasgow, in the county of Lanark, North Britain, Hat Manufacturer, has given the like notice in respect of the invention of "Improvements in hats, and other coverings for the head."
As set forth in their respective petitions, both recorded in the said office on the 19th day of November, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

6th December, 1859.

1395. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the city of London, Engineer, for an invention of "Improvements in machinery for punching and shearing metal."—Partly a communication from abroad by Michael de Bergue, of Barcelona, in the kingdom of Spain.—Dated 8th June, 1859.

1396. JOSEPH BENNETT HOWELL, of Sheffield, in the county of York, Steel Manufacturer, JOHN HICK, of Great Bolton, in the county of Lancaster, Ironfounder, and WILLIAM HARGREAVES, of the same place, Ironfounder, for an invention of "Improvements in apparatus for applying heat to steam or other boilers or vessels, and for facilitating the combustion of gases and smoke."—Dated 8th June, 1859.

1408. GEORGE JAMES FARMER, of Hampton Street, Birmingham, in the county of Warwick, Machinist, and GEORGE BRIGGS HARDY, of Alexander Place, Brompton, in the county of Middlesex, Chemist, for an invention of "Improvements in stair rods and eyes, or sockets which are also applicable for other purposes."—Dated 10th June, 1859.

1413. MOSES HAYM PICCIOTTO, of Finsbury Circus, in the city of London, Merchant, for an invention of "Improvements in apparatus for producing or obtaining motive power."—Dated 10th June, 1859.

1423. HENRY LEE CORLETT, of Inchicore, in the county of Dublin, Engineer, for an invention of "Improvements in rails and the permanent way of railways, parts of such improvements being applicable to common roads."—Dated 13th June, 1859.

1447. CHARLES HENRY WARING, of Neath Abbey, in the county of Glamorgan, Mining Engineer, for an invention of "Improvements in safety lamps."—Dated 16th June, 1859.

1465. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improved means for assorting substances of different specific gravities."—A communication from abroad by Désiré Marchal, of Brussels."—Dated 17th June, 1859.

1504. WILLIAM RUSSELL, of the borough of Leicester, in the county of Leicester, Ironmonger, for an invention of "Improvements in wheels for ploughs, cultivators, and other implements or carriages."——Dated 22nd June, 1859.

1507. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "Improvements in machinery for the manufacture of bolts and rivets."—A communication from I. L. Vergniais, residing in Paris.—Dated 23rd June, 1859.

1514. HENRY DOULTON, of Lambeth, for an invention of "Improvements in earthenware jars and bottles."—Dated 23rd June, 1859.

1517. James Mills, of Heaton Norris, in the county of Lancaster Machinist, for an invention of "Improvements in the manufacture of keys and gibs, and in the machinery employed therein."—Dated 24th June, 1859.

1518. Auguste Chesneau, of 29, Boulevart St. Martin, Paris, in the empire of France, Merchant, for an invention of "Improvements in paddle-wheels."—Dated 24th June, 1859.

1531. William Coppin, of Strand Foundry, Londonderry, Marine Architect and Engineer, for an invention of "Improvements in apparatus for raising sunken and stranded vessels and their cargoes, and for raising and lowering other bodies into and out of the water, part of which improvements are applicable to raising weights generally."—Dated 25th June, 1859.

1535. Bethel Burton, of Brooklyn, in the state of New York, United States of America, for an invention of "Improvements in breech-loading fire-arms."—Dated 27th June, 1859.

1550. George Chapman, of Rutland Street, Leicester, for an invention of "Improvements in knitting machines."—Dated 29th June, 1859.

1583. Charles Hanson Greville Williams, of 39, Regent Square, Gray's Inn Road, in the county of Middlesex, for an invention of "Improvements in dyeing fabrics and yarns."—Dated 2nd July, 1859.

1699. Frederick Collier Bakewell, of No. 6, Haverstock Terrace, Hampstead, in the county of Middlesex, for an invention of "Improvements in extracting oils from coal and other minerals."—A communication from abroad by David Alter and Samuel A. Hill, of Pittsburgh, in the United States, North America.—Dated 19th July, 1859.

2038. Edward Robert Dann and Edward Goldschmidt, both of Nottingham, for an invention of "Improvements in the manufacture of bonnet fronts or lappets."—Dated 7th September, 1859.

2112. Joseph Beck, of the firm of Smith, Beck, and Beck, of Coleman Street, in the city of London, for an invention of "Improvements in stereoscopes."—Dated16th September, 1859.

2276. Enoch Oldfield Tindall, of Scarborough, in the county of York, Engineer, for an invention of "Improvements in machinery or apparatus for crushing or reducing grain seeds and other substances."—Dated 6th October, 1859.

2278. Alexander Mackenzie Ferry, of Edinburgh, in the county of Mid Lothian, North Britain, Merchant, for an invention of "Improvements in the manufacture or production of oil, and in lamps for burning the same."—Dated 6th October, 1859.

2309. John Earl, of Melbourne, in the county of Derby, Railway Contractor, for an invention of "Improvements in arranging and applying harness to the draft of carriages."—Dated 11th October, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 2nd December*, 1859, *inclusive.*)

1st December.

2874. James Apperly, Cloth Manufacturer, and William Clissold, Engineer, both of Dudbridge, in the county of Gloucester, for an invention of "Improved machinery for preparing fibrous substances for spinning."—Dated 4th December, 1856.

2nd December.

2866. Thomas Crabtree, of Halifax, in the county of York, Machine Maker, for an invention of "Improvements in card-setting machines, and in certain machinery or apparatus employed in the construction thereof, which apparatus is also applicable to similar purposes."—Dated 3rd December, 1856.

2869. Julien Denis, of 14, Queenhithe, in the city of London, for an invention of "Improvements in apparatus for corking and uncorking bottles, without leaving any air between the liquid and the cork."—A communication.—Dated 3rd December, 1856.

2878. Ebenezer Daggett Draper, and George Draper, of the state of Massachusetts, of the United States of America, for an invention of "Certain new and useful improvements in oil feeders, vessels, or cans, for oiling machinery."—Partly a communication.—Dated 4th December, 1856.

2882. Auguste Edouard Loradoux Bellford, of 10, Bedford Street, Strand, London, for an invention for "Improvements in drying, burning, and cooling bricks, tiles, and other ceramic substances."—A communication.—Dated 4th December, 1856.

2884. David Crawford, of Glasgow, in the county of Lanark, North Britain, Manager, for an invention of "Improvements in washing, cleansing, and preparing textile fabrics and materials."—Dated 4th December, 1856.

2896. Christian Schiele, of Oldham, in the county of Lancaster, Engineer, for an invention of "Certain improvements in machinery or apparatus for cutting nuts, screws, or bolts, and toothed wheels."—Dated 6th December, 1856.

2898. John Longbottom, of Leeds, in the county of York, Engineer, for an invention of "Improvements in generating, surcharging, or superheating steam."—Dated 6th December, 1856.

2940. William Lund, of Fleet Street, in the city of London, Manufacturer, for an invention of "An improved 'spring clip' for holding or retaining loose papers or other loose articles."—Dated 11th December, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 2nd December*, 1859, *inclusive.*)

1st December.

936. John Norton, of Cork, in the county of Cork, Esquire, for an invention of "Improvements in shot or projectiles."—Dated 2nd December, 1852.

2nd December.

983. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention of "Improvements in weaving carpets and other fabrics, and in the machinery or apparatus employed therein."—A communication.—Dated 7th December, 1852.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(*Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.*)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

40,738. BENGEL, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Using and applying aluminium in the manufacture of gas-burners and other articles used for lighting and combustion."—Dated 23rd April, 1859.

40,740. CHARBONNEL, of 42, Rue au Maire, Paris, for "Night lamps which may be used for warming liquids."—Dated 23rd April, 1859.

40,743. CLÉRET, of 196, Rue Normandie, Havre, for "A steam regenerator."—Dated 30th April, 1859.

40,745. GARDE, of 4, Rue de l'Abbaye, Paris, for "Machines and other improvements for building in pise, and by means of lithogenic brickwork, as patented 8th June, 1858."—Dated 23rd April, 1859.

40,746. GIESENDORFF, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of arm-chairs, chairs, &c."—Dated 23rd April, 1859.

40,748. GRAVIER, of Valenciennes, département du Nord, for "A kind of axles."—Dated 6th May, 1859.

40,749. GRENIER, DERAMERU and Co., represented by Ruchet, of 58 bis, Rue de la Chaussée, d'Antin, Paris, for "Improvements in obtaining and manufacturing grits of oats."—Dated 26th April, 1859.

40,750. HIFFELSHEIM, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Substances and means for obtaining a pulp for parchment paper or animal paper."—Dated 23rd April, 1859.

40,751. JOURNET and CONVERS, of 20, Route d'Asnières, Batignolles, for "Musical carriages."—Dated 23rd April, 1859.

For the French Patent Law see No. 228 of this Journal.

40,752. KERSHAW and SILTZER and Co., represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Improvements in means and apparatus for weaving."—Dated 24th April, 1859.—(English Patent, 2nd March, 1859.)

40,753. LAFON, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of raised letters."—Dated 23rd April, 1859.

40,754. LEROY, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in lace-work mixed with all kinds of wood, and being chiefly applicable to ornamenting hangings in general."—Dated 23rd April, 1859.

40,755. LOIR, of 64, Rue Lafayette, Paris, for "A bath called continuous shower bath."—Dated 23rd April, 1859.

40,757. LUND, represented by Perpigna, of 42, Rue Neuve, Saint Augustin, Paris, for "Improvements in the manufacture of stuffs or fabrics for umbrellas and parasols."—Dated 22nd April, 1859.—(English Patent, 22nd February, 1859.)

40,759. MAUPRIVEZ, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A so-called 'manifold machine for breaking sugar.'"—Dated 23rd April, 1859.

40,761. PENDRIÉ, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A kind of spring petticoat, called 'Universal petticoat.'"—Dated 23rd April, 1859.

40,762. POLINO, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A kind of bedstead."—Dated 23rd April, 1859.

40,763. PRADINE and Co., represented by Dauphinot, of 9, Rue du Cloître, Reims, for "A mechanism for winding-off warps in looms."—Dated 4th May, 1859.

40,764. REGNAUT, of 398, Rue St. Honoré, Paris, for "Improvements in perfumery, or apparatus called mechanical perfumery."—Dated 23rd April, 1859.

40,766. TÉTARD, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of watch keys."—Dated 23rd April, 1859.

40,767. VEILLON and CHALMETTON, of Alais, département du Gard, for "A system of axles applicable to all carriages, and especially to the waggons used in mines."—Dated 5th May, 1859.

40,768. WILD, of 41, Rue St. Nicolas, Nancy, for "Improvements in the manufacture of so-called 'Brasilian straw hats.'"—Dated 5th May, 1859.

40,769. ARCHEREAU and COUILLARD, represented by Pocholle, of 16, Rue Neuve, St. Eustache, Paris, for "A mode of washing coals, coke, and other fuel, &c."—Dated 27th April, 1859.

40,770. BAUER, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A mechanism for making paste and pastry."—Dated 27th April, 1859.

40,771. BECKER and OTTO, of 79, Rue du Temple, Paris, for "A kind of cigar boxes."—Dated 29th April, 1859.

40,772. BOURET and FERRÉ, of 11, Rue du Perche, Paris, for "A kind of bezels for articles of jewelry."—Dated 28th April, 1859.

40,773. Bourgeois, of 38, Rue de la Bienfaisance, Paris, for "Substituting water for steam as a motive-power in piston engines." — Dated 28th April, 1859.

40,774. Boutet, of 39, Boulevart du Temple, Paris, for "A system of ladies' pages."—Dated 26th April, 1859.

40,775. Charnier, of 40, Rue d'Enghien, Paris, for "A mode of preserving fresh sardines."—Dated 27th April, 1859.

40,776. Chevalier and Champeaux, of 52, Rue St. Denis, Belleville, for "A kind of salt, called 'azotate' resembling silver, being a substitute for azotate of silver in photography."—Dated 27th April, 1859.

40,777. Collyer and Gaupillat, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Machines for bruising, crushing, and pulverizing substances, said machines being chiefly applicable to preparing straw and other substances for the manufacture of paper."—Dated 26th April, 1859. —(English Patent, 2nd March, 1859.)

40,778. Crossdale, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the manufacture of boots and shoes."—Dated 26th April, 1859.—(English Patent.)—Dated 12th April, 1859.

40,779. Darlu, of 1, Rue Louis-le-Grand, Paris, for "An electro-motor."—Dated 27th April, 1859.

40,780. D'Hertmanni and Christophe, represented by Ricordeau, of 23, Boulevard de Strasbourg, Paris, for "Lever closets for vessels and private houses."—Dated 27th April, 1859.

40,781. Dubos, of Beauvais, département de l'Oise, for "Jointed knee-caps for horses."—Dated 5th May, 1859.

40,782. François Vaillant, of 30, Rue des Jardins, Metz, for "Economical kitchen-ranges, called 'field kitchen ranges.'"—Dated 4th May, 1859.

40,783. Gaupillat, Illig, and Gaupillat, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in cartridges for breech-loading fire-arms." — Dated 26th April, 1859.

40,784. Gérard, of 9, Rue Geoffroy-l'Angevin, Paris, for "A so-called 'mechanical spindle for making lace work.'"—Dated 26th April, 1859.

40,785. Guido-Schultze, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Tubular heating apparatus."—Dated 27th April, 1859.

40,786. Henri Depoilly and Son, of 64, Rue du Château d'Eau, Paris, for "Improvements in locks."—Dated 28th April, 1859.

40,787. Henri Depoilly and Son, of 64, Rue du Château d'Eau, Paris, for "Improvements in locks."—Dated 28th April, 1859.

40,788. Hubert, domiciled with Armengaud, of 45, Rue St. Sébastien, Paris, for "Improvements in sizing the warps of woollen, cotton, and other tissues."—Dated 27th April, 1859.

40,789. Jigaroff, of 18, Chaussée Ménilmontant Belleville, for "A sewing machine, worked by means of a keyboard."—Dated 29th April, 1859.

40,790. Langenard, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A machine for making metal buttons."—Dated 27th April, 1859.

40,791. Lapène, of 9, Place de l'Arsenal, Paris, for "Substituting the expansive power of gas for steam power."—Dated 26th April, 1859.

40,792. Lavater, represented by Halff, of 8 and 10, Passage du Saumon, Paris, for "Improvements in surgical instruments and toys of india-rubber."—Dated 26th April, 1859.

40,793. Lebrun, of 12, Rue Croix-des-Petits-Champs, Paris, for "Apparatus and processes for building houses by means of small materials."—Dated 28th April, 1859.

40,794. L'Enfant, of 78, Rue St. Jean, Caen, for "A hairy tissue, called 'Caen point.'"—Dated 7th May, 1859.

40,795. Marix, of 146, Rue Montmartre, Paris, for "A musical instrument."— Dated 29th April, 1859.

40,796. Péan de Saint-Gilles, of 8, Place de la Concorde, Paris, for "A mode of treating the residue of zinc works and other substances containing zinc, for the purpose of obtaining chloride of zinc therefrom."—Dated 26th April, 1859.

40,797. Prat, of Pernes, département de la Vaucluse, for "A sowing machine with a regulator."—Dated 5th May, 1859.

40,798. Salomon, of 46, Rue Bourbon-Villeneuve, Paris, for "An economical system of lighting by means of oleaginous essences with a base of rosin-oil, applicable to smoke-consuming lamps with a steady level and to moderator lamps."—Dated 27th April, 1859.

40,799. Sauton, Son, of 10, Rue de la Monnaie, Paris, for "Improvements in gloves."—Dated 28th April, 1859.

40,800. Teissère and Guillois, of 66, Rue Villiers Neuilly, for "Improvements in the manufacture and sale of gaseous liquids."—Dated 26th April, 1859.

40,801. Bastard-Lanoy, represented by Blanchet, of Beauvais, département de l'Oise, for "Applying sculptured work to the plumes of fans."—Dated 2nd April, 1859.

40,802. Bayle, of 32, Rue Notre Dame, Bordeaux, for "An instrument for putting bottoms to boxes for preserved food."—Dated 9th May, 1859.

40,803. Boulenger, of Rue Stanislas Girardin, Rouen, for "Whalebone petticoats, called 'Milanese petticoats.'"—Dated 11th May, 1859.

40,804. Brichet, of 20, Rue de la Fosse, Nantes, for "A system of single or double guns, especially breech-loading guns, opened by means of the trigger-guard."—Dated 6th May, 1859.

40,805. Cadet, of Chalô St. Mars, département de Seine et Oise, for "A machine for crushing and sieving plaster."—Dated 6th May, 1859.

40,806. Chassaignon-Dominget, of Rue St. Jean, Lyon, for "A means of preventing gold and silver embroideries from being torn."—Dated 5th May, 1859.

40,807. Coste, Father, of Saint Laurent de Cerdans, département des Pyrenées Orientales, for "A kind

of foot coverings, called 'Roussillon vegetable foot coverings.'"—Dated 9th May, 1859.

40,808. Dayre-Nieto, of 8, Rue Cacault, Nantes, for "Folding lever-scales with cases."—Dated 6th May, 1859.

40,809. Franck, of Saint Dié, département des Vosges, for "A vertical weaving machine."—Dated 13th April, 1859.

40,810. Gasquet and Bardou, of Castres, département du Tarn, for "A husking machine."—Dated 9th May, 1859.

40,811. Gaubert, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of fire-arms."—Dated 30th April, 1859.

40,812. Grangier and Guinas, of Sorgues, département de la Vaucluse, for "Using the waste heat of gas works for the manufacture of lime."—Dated 6th May, 1859.

40,813. Jacquet-Robillard, of Arras, for "A kind of sowing machine."—Dated 9th May, 1859.

40,814. Jones, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in sewing machines."—Dated 30th April, 1859.—(English Patent, 15th February, 1859.)

40,815. Keller and Rouy, of 29, Rue Phélippeaux, Paris, for "A system of clasps."—Dated 30th April, 1859.

40,816. Latrille, of Pau, for "A system of impervious tents and cloaks for soldiers."—Dated 7th May, 1859.

40,817. Lecointe, of Saint Quentin, for "A tubular generator with circulating fire for fixed and moveable engines."—Dated 7th May, 1859.

40,818. Lobstein, of 11, Quai des Bateliers, Strasbourg, for "A rocking plane with a double action."—Dated 2nd May, 1859.

40,819. Macintosch and Rhodes, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in tents and other similar covers for protecting persons from bad weather."—Dated 29th April, 1859.

40,820. Magois, domiciled of Rue Notre Dame des Victoires, Paris, for "A system of aerial vessels worked by means of a screw."—Dated 30th April, 1859.

40,821. Meillard, domiciled of Lyon, for "A mechanism applicable to organs and harmoniums, called 'Melophoniums.'"—Dated 2nd May, 1859.

40,822. Oppermann, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Studs with a moveable under-plate for ruffles and other purposes."

40,823. Peyret, Gerin, and Co., of 9, Rue Brossard St. Etienne, département de la Loire, for "Using printed wefts in ribbons or stuffs for the purpose of obtaining designs, &c."—Dated 7th May, 1859.

40,824. Randu and Fillion, of Rue des Martyrs, Lyon, for "A distilling apparatus."—Dated 6th May, 1859.

40,825. Repelin, of Saint Marcellin, département de l'Isère, for "An expeditious mode of tanning."—Dated 6th May, 1859.

40,826. Rivoire and Guelin, of Brignais, département du Rhône, for "Felt hats with seamless rims and hat-bands."—Dated 6th May, 1859.

40,827. Roussat, of Ludesse, département du Puy-de-Dôme, for "A system of tumbrels."—Dated 19th April, 1859.

40,828. Russery and Lacombe, of Rive de Gier, département de la Loire, for "Cranked axles for the navy and railways."—Dated 11th May, 1859.

40,829. Schiettinger, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for bruising and crushing oats for obtaining malt for brewing."—Dated 30th April, 1859.

40,830. Tavelet, sen., of Montivilliers, département de la Seine Inférieure, for "A mechanism or system of journals with pivots of revolving axles used for transmitting the power of hydraulic motors."—Dated 10th May, 1859.

40,831. Tourenc, domiciled of 75, Rue de Paris, Clichy la Garenne, for "Ventilating shafts of mines."—Dated 30th April, 1859.

40,832. Vincent, of Senlis, département de l'Oise, for "A pump."—Dated 6th May, 1859.

40,833. Aubenas, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Vegetable tooth powder."—Dated 16th April, 1859.

40,834. Bailey, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Apparatus for heating razors."—Dated 30th April, 1859.—(English Patent, 19th November, 1859.)

40,835. Bès, represented by Amouroux, of 333, Rue Saint Martin, Paris, for "A means of skidding carriages."—Dated 4th May, 1859.

40,836. Bourdin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A rational method of applying steam to cooking and preserving food."—Dated 30th April, 1859.

40,837. Chaumont, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A mode of fastening Venetian blinds, being applicable to various objects."—Dated 5th May, 1859.

40,838. Chéradame, of 47, Rue Rochechouart, Paris, for "A salvage log."—Dated 4th May, 1859.

40,839. Choiselle, of 201, Rue du Faubourg Saint Martin, Paris, for "Ribbed pots for obtaining animal charcoal."—Dated 5th May, 1859.

40,840. Collaze and Leroux, the former of 125, Faubourg du Temple, the latter of 35, Rue des Bons Enfants, Paris, for "An entry book for keeping commercial accounts."—Dated 28th April, 1859.

40,841. Gusinberche jun., of 6, Rue Barbette, Paris, for "Ornamenting candles."—Dated 2nd May, 1859.

40,842. Delavier, of 19, Rue de Dunkerque, Paris, for "A combined coffee and tea-pot."—Dated 2nd May, 1859.

40,843. Dufay, of cité Bergère, Paris, for "A system of traps."—Dated 4th May, 1859.

40,844. Dusterwald, represented by d'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Economical washing troughs."—Dated 3rd May, 1859.

40,845. Duval and Joviaux, of Saint Denis, for "Manufacturing and purifying gas."—Dated 4th May, 1859.

40,846. Duvergier, of St. Jullien-en-Jarret, département de la Loire, for "A peculiar arrangement of slides and steam pipes for horizontal cylinders of steam engines."—Dated 12th May, 1859.

40,847. Garin, father and his two sons, of la Vallée-aux-Blés, département de l'Aisne, for "A screw sieve."—Dated 11th May, 1859.

40,848. Gauthier, of 31, Rue Basse, Passy, for "A system of towing."—Dated 2nd May, 1859.

40,849. Hammar, represented by Le Blanc, of 2, Rue Sainte Appoline, Paris, for "A kind of gas burners."—Dated 30th April, 1859.

40,850. Jonas, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A multiple or moveable petticoat."—Dated 4th May, 1859.

40,851. Juge, of Crest, département du Drôme, for "A mode of conveying single persons."—Dated 10th May, 1859.

40,852. Laboureix, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A lever railway break for preventing railway accidents."—Dated 4th May, 1859.

40,853. Lamy, of Clermont Ferrand, département du Puy de Dôme, for "A rotary and differential steam pump."—Dated 2nd May, 1859.

40,854. Liézard, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A rolling-mill for drawing lead for windows."—Dated 30th April, 1859.

40,855. Marcoux, of 71, Rue du Ruisseau, Montmartre, for "A motor worked by means of the weight of water."—Dated 30th April, 1859.

40,856. Merlat, of St. Etienne, section of Valbenoîte, département de la Loire, for "An apparatus for softening silk and other textile substances."—Dated 12th May, 1859.

40,857. Meunier, represented by d'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "A system of typographic and lithographic composition."—Dated 3rd May, 1859.

40,858. Mollard and Bouissou, of 96, Rue de Clichy, Paris, for "Cocks with sectors."—Dated 4th May, 1859.

40,859. Ogier, of 8, Rue de Valois Palais Royal, Paris, for "Trowsers."—Dated 2nd May, 1859.

40,861. Pelissier, domiciled at Blois, département de Loir et Cher, for "A mode of acierating cranked rails for crossings of railways."—Dated 7th May, 1859.

40,862. Penrice, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in machines for boring tunnels and shafts in rocks, &c."—Dated 4th May, 1859.—(English Patent, 6th November, 1858.)

40,863. Pissot, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Manufacture of church and fancy pictures."—Dated 30th April, 1859.

40,864. Rémond, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of steam engines."—Dated 4th May, 1859.

40,865. Rider, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of hats."—Dated 3rd May, 1859.—(English Patent, 18th November, 1858.)

40,866. Barré, of Gémozac, département de la Charente Inférieure, for "Improvements in tubular motors of steam engines."—Dated 12th May, 1859.

40,867. Baudit, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of braces."—Dated 5th May, 1859.

40,868. Belleville, of 9, Rue Villedo, Paris, for "An inexplosive generator with an equipoised evaporation."—Dated 6th May, 1859.

40,869. Blake, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "A machine for stitching soles on the vamps of shoes and boots."—Dated 5th May, 1859.

40,870. Bourgeois, of Bapaume, département de la Seine Inférieure, for "A machine for printing shawls."—Dated 13th May, 1859.

40,871. Daroles, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of crinoline petticoats, called, 'Crinolines marquises.'"—Dated 7th May, 1859.

40,872. Desgenétais and Vatinet, of Bolbec, département de la Seine Inférieure, for "An apparatus for stopping looms."—Dated 13th May, 1859.

40,873. Dupé, of Suié, département de la Loire Inférieure, for "An instrument for raking and weeding corn."—Dated 12th May, 1859.

40,874. Fayet, of 32, Rue de la Badouillère, Saint Etienne, département de la Loire, for "An apparatus for folding skeins into metrical measures, and which may be stopped at any given number, and at the breakage of threads."—Dated 16th May, 1859.

40,875. Fontaine, of 18, Rue des Capucines, Lyon, for "Applying velvet and plush to fabrics without wrong sides."—Dated 14th May, 1859.

40,876. Furiet, of Charleville, département des Ardennes, for "Manufacture of nails and rivets by a hot and cold process and by using successively the apparatus of forges."—Dated 16th May, 1859.

40,877. Gaussinel, of Rue des Trois Couleurs, Alger, for "A system of submarine boats."—Dated 9th March, 1859.

40,878. Gossage, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the treatment of certain copper ores."—Dated 7th May, 1859.—(English Patent, 7th March, 1859.)

40,879. Grandin and Gallet, the former of 24, Rue de Lancry, the latter of 102, Rue du Faubourg St. Denis, Paris, for "A clyster."—Dated 6th May, 1859.

40,880. Grandin and Gallet, the former of 24, Rue de Lancry, the latter of 102, Rue du Faubourg St. Denis, Paris, for "Syphons for mixing absinthe, &c."—Dated 6th May, 1859.

40,881. Grégoire, of 66, Rue Terre de Bordes, Bordeaux, for "An hermetic box with a rational friction."—Dated 14th May, 1859.

40,882. Gruyer, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of umbrellas, parasols, &c."—Dated 5th May, 1859.

40,883. Helant and Poulet (Victor), of 17, Rue de l'Echiquier, Paris, for "A case for cigaret-paper."—Dated 21st April, 1859.

40,884. Herbé and Benoit, domiciled Rue de Cernay, Reims, for "An apparatus for raising water."—Dated 11th May, 1859.

40,885. Jean, alias Brunot, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in spinning machines for the manufacture of cords and cables."—Dated 7th May, 1859.

40,886. Lecour and Co., of 19, Rue du Mont Riboudet, Rouen, for "Cravat rollers of copper stretched by the cold process."—Dated 14th May, 1859.

40,887. Liabé, of 40, Rue du Rocher, Paris, for "Hygienic juice for horses."—Dated 6th May, 1859.

40,888. Michaux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of garden-seats, &c."—Dated 5th May, 1859.

40,889. Ozenne, of Gamaches, département de la Somme, for "A thrashing machine."—Dated 12th May, 1859.

40,890. Pernet and Cau, of 36, Quai d'Albret, Lyon, for "Stoppers of glass or clay with or without syphons for any liquid or substance."—Dated 12th May, 1859.

40,891. Romanet, of Morez, département du Jura, "A clock-signal with one or several strokes."—Dated 12th May, 1859.

40,892. Rosnay, of 4, Rue Ste. Geneviève, Belleville, for "A smoke-consuming apparatus."—Dated 7th May, 1859.

40,893. Rossignol, of 43, Rue de la Reine, Lyon, for "Awnings."—Dated 11th May, 1859.

40,894. Rouart, of Arras, for "A crotchet for removing cartridges from Lefaucheux' guns."—Dated 14th May, 1859.

40,895. Rousseau, of Port St. Père, département de la Loire, for "A machine for grinding and crushing corn."—Dated 14th May, 1859.

40,896. Scott, represented by Fringant, at Masse, of 10, Rue de Provence, Paris, for "Improvements in the construction of carriages and their various parts."—Dated 7th May, 1859.—(English Patent, 23rd February, 1859.)

40,897. Tourret-Banquart, of Calais, for "A process for coppering metals."—Dated 16th May, 1859.

40,898. Villemez and Lorinet, represented by Caubet, of Constantine, département de l'Algerie, for "A machine for watering gardens and meadows."—Dated 30th April, 1859.

40,899. Allen, represented by Gardissal, of 29, Boulevard St. Martin, Paris, for "A machine for making rivets, balls, buttons, &c."—Dated 7th May, 1859.—(American Patent, 8th February, 1859.)

40,900. André, of 11, Rue des Juifs, Strasbourg, for "A filter worked by pressure for preparing timber."—Dated 11th May, 1859.

40,901. Brunel, represented by Lardenois, of 61, Rue du Faubourg St. Martin, Paris, for "Manufacture of paper-pulp."—Dated 29th April, 1859.—(English Patent 26th April, 1859.)

40,902. Chagot and Co., represented by Vannaisse, of 112, Rue de Richelieu, Paris, for "An apparatus for drying coals after having been washed."—Dated 30th April, 1859.

40,903. Chamboredon, of 12, Rue Gondillac, Bordeaux, for "A cock with a compressible tube."—Dated 18th May, 1859.

40,904. Chanoit and Catelineau, represented by Le Blanc, of 4, Rue Ste. Appoline, Paris, for "A sounding apparatus."—Dated 9th May, 1859.

40,905. Courau and Lemoine, the former of 52, Allées d'Amour, the latter of 3, Rue Michel-Montaigne, Bordeaux, for "Wheels of railway carriages and rails."—Dated 17th May, 1859.

40,906. Dabancourt and Damoisy, of Pommier, département de l'Aisne, for "A system of reviving animal charcoal by means of continuous furnaces."—Dated 17th May, 1859.

40,907. Dorn, domiciled with Dierrich, of 8, Rue St. Joseph, Paris, for "Improvements in furnaces for baking porcelain and other ceramic articles."—Dated 7th May, 1859.—(Wurtemberg Patent, 20th April, 1859.)

40,908. Fielding, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in preserving the form of thread-spindles by using adhesive substances."—Dated 18th March, 1859.—(English Patent, 4th November, 1858.)

40,909. Freppel, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Applying a substance to dyeing cotton, woollen, or silk yarns, &c."—Dated 7th May, 1859.

40,910. Hurez, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Smoke-consuming economical furnaces for domestic and industrial purposes."—Dated 9th May, 1859.

40,911. Jacobson, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "So-called 'Amazone collars.'"—Dated 9th May, 1859.

40,912. Jacquemin, of 75, Rue de Metz, Nancy, for "Moveable windows for hot-beds, hot-houses, awnings, &c."—Dated 19th May, 1859.

40,913. Jouan, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for the manufacture of sugar, and for other chemical operations."—Dated 28th February, 1859.—American Patent, 25th January, 1859.

40,914. Larchevêque, of 10, Passage Saucède, Paris, for "Hooks for crinolines."—Dated 7th May, 1859.

40,915. Lecoat de Ker-Véguen and Viéville, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Applying lace looms to the manufacture of tissues for various purposes."—Dated 9th May, 1859.

40,916. Leroux, of 44, Rue Volta, Paris, for "Improvements in muzzles for horses."—Dated 9th May, 1859.

40,917. Loiseau, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machanism for ribbon looms."—Dated 7th May, 1859.

40,918. Mariolle-Pinquet, of St. Quentin, département de l'Aisne, for "Utilizing gas and smoke for heating tubular generators from the outside."—Dated 14th May, 1859.

40,919. F. Marty and Company, of 1 and 3, Passage Ste. Croix de la Bretonnerie, Paris, for "Improvements in the manufacture of military and civil equipments and saddlery."—Dated 7th May, 1859.

40,920. Michaux and Company, of Anzin, for "A kind of slides of steam engines."—Dated 19th May, 1859.

40,921. Moret, of Saint Quentin, département de l'Aisne, for "An apparatus for controlling steam engines as to their working and condition."—Dated 16th May, 1859.

40,922. Morot, of 7, Vallée de Boudonville, Nancy, for "A safety system, applicable to all locks."—Dated 13th May, 1859.

40,923. Oxley, represented by d'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in the construction of carriages."—Dated 9th May, 1859.

40,924. Persoz, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in oxydating substances, and especially in roasting sulphur ores."—Dated 9th May, 1859.

40,925. Plagne, represented by Sébillot and Ramspacher, of 35, Boulevart du Temple, Paris, for "Improvements in extracting products from varec, by the wet process."—Dated 9th May, 1859.

40,926. Possoz and Périer, domiciled 9, Rue Neuve, St. Augustin, Paris, for "Improvements in refining sugar."—Dated 9th May, 1859.

40,927. Semain, of Blois, département de Loir et Cher, for "An apparatus superseding drills, eccentrics, racks, and other mades of transforming motion in steam and other engines."—Dated 18th May, 1859.

40,928. Serbat, of Saint Sauloe, département du Nord, for "Using old leather."—Dated 17th May, 1859.

40,929. Sylvestre Brothers, of Ranconnières and Bonjeux, département de la Haute Marne, for "A crushing mill."—Dated 17th May, 1859.

40,930. Tastevin, of 79, Quai de Bondy, Lyons, for "So-called 'American brooms.'"—Dated 17th May, 1859.

40,931. Vallin, domiciled at 5, Rue du Petit Hurleur, Paris, for "Mattresses with bellows."—Dated 9th May, 1859.

40,932. Aigner, of Avenue de Saint Cloud, Commune de Passy, département de la Seine, for "A system of suspension for two-wheeled carriages."—Dated 11th May, 1859.

40,933. Baudet, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Musical instruments with repeated and prolonged sounds."—Dated 11th May, 1859.

40,934. Besquet, domiciled with Darnis, of 36, Rue de l'Echiquier, Paris, for "Moulding articles of cast iron."—Dated 10th May, 1859.

40,935. Bodin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of bellows for blowing powder for destroying insects."—Dated 10th May, 1859.

40,936. Bona and Dicktus-Lejuene, represented by Michel, of 5, Passage Lafoyette, Paris, for "A weaving machine."—Dated 11th May, 1859.

40,937. Bossuot, of 24, Rue Notre Dame, Troyes, département de l'Aube, for "A kind of manometer."—Dated 19th May, 1859.

40,938. Catenot, of 39, Cours Morand, Lyons, départment du Rhône, for "Improvements in the construction of metal or semi-metal Roman balances."—Dated 19th May, 1859.

40,939. Charrière and Co., of Allevard, département de l'Isère, for "Modifications in small heating furnaces with a forced blast, for the purpose of adapting the same to the manufacture of large pieces of iron,"—Dated 16th May, 1859.

40,940. Chatonet, of La Rochelle, département de la Charente Inférieure, for "Improvements in the manufacture of boxes for preserved food, with an horizontal and easy opening."—Dated 20th May, 1859.

40,941. Coullon, of Auxerre, département de l'Yonne, for "A screw-wheel applied to horsegins, and to other machines."—Dated 23rd May, 1859.

40,942. Debraine, of 11, Rue Carnot, Paris, for "Improvements in parachutes, or so-called 'Zephyrine box.'"—Dated 11th May, 1859.

40,943. Desmet-Séant, of 10, Rue de Provence, Paris, for "A system of cylinders for musical instruments of brass or any other metal."—Dated 10th May, 1859.

40,944. Escousse, of 235, Rue Ste. Catherine, Bordeaux, département de la Gironde, for "A system of kneading dough for bread."—Dated 21st May, 1859.

40,945. Gain, represented by Thiéry, of 54, Rue du Faubourg Saint Denis, Paris, for "An apparatus for washing coals, ores, &c."—Dated 11th May, 1859.

40,946. Gatte, of 52, Rue de Bondy, Paris, for "A system of advertizing, called 'The traveller's friend.'"—Dated 11th May, 1859.

40,947. Geyelin, represented by Teyssier, of 43, Rue de Trévise, Paris, for "A gas-regulator."—Dated 11th May, 1859.—(English Patent, 7th January, 1859.)

40,948. Gibert, of Elbeuf, département de la Seine Inférieure, for "Manufacture of so-called 'Phosphate manure.'"—Dated 19th May, 1859.

40,949. Golding-Bunting, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "An apparatus for taming horses, or mechanical bit."—Dated 10th May, 1859.—(English Patent, 25th November, 1858.)

40,950. Jullion, represented by Brade, of 29, Rue Ste. Anne, Paris, for "Improvements in the manufacture of paper."—Dated 9th May, 1859.—(American Patent, 9th November, 1858.)

40,951. LANNEBIT and BERRÈRE, sen., represented by Dujardin d'Hardivilliers, of 166, Rue du Faubourg St. Martin, Paris, for "Improvements in regulators of twyers."—Dated 18th May, 1859.

40,952. C. LEFEBVRE and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Fastening frames, framework, &c."—Dated 11th May, 1859.

40,953. LEVY-ALBERT, of 55, Rue Notre Dame de Nazareth, Paris, for "A kind of stereoscopes."—Dated 11th May, 1859.

40,954. LONG, of 12, Rue de Nemours, Paris, for "Improvements in locks of night-bags."—Dated 10th May, 1859.

40,955. LONVERT, of 37, Rue Tastet, of Bordeaux, for "An economical puncheon."—Dated 19th May, 1859.

40,956. LOOSVELT, of Turcoing, département du Nord, for "A kind of spools."—Dated 23rd May, 1859.

40,957. MARTIN, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in fire-arms."—Dated 10th May, 1859.

40,958. NICOLAS, of 87, Rue Montmartre, Paris, for "A kind of strop for razors."—Dated 11th May, 1859.

40,959. PATTE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A toy called 'Paris arrow-gun."—Dated 10th May, 1859.

40,960. PECCADEAU, of Montauban, departement de Tarn et Garonne, for "A continuous beating machine for the manufacture of paper."—Dated 18th May, 1859.

40,961. PORTRAIT, of Saint Quentin, département de l'Aisne, for "Improvements in Leig-Evan's Patent pressure cylinder for spinning machines."—Dated 21st May, 1859.

40,962. REYNAUD DE TRETS, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An explosive composition, called 'pyronome,' for blasting mines, &c."—Dated 10th May, 1859.

40,963. VANGINDERTAELEN, represented by Denimal, of 229, Rue de Paris, Lille, for "Improvements in his force and lift pump with an intermittent jet, as patented 24th March, 1858."—Dated 21st May, 1859.

40,964. AIKEN, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in knitting frames."—Dated 12th May, 1859.

40,965. AMADE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for making up sums."—Dated 12th May, 1859.

40,966. BONHEY, of 3, Rue des Francs-Bourgeois, Paris for "Shears worked by a machine."—Dated 12th May, 1859.

40,967, BOULART, represented by Delhomme, of Grande Rue, La Chapelle St. Denis, département de la Seine, for "A system of pumps."—Dated 12th May, 1859.

40,968. CABARET, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A mechanical guide-rod applicable to all looms."—Dated 12th May, 1859.

40,969. DAVID, domiciled at 20, Rue St. Fiacre, Paris, for "A gas-carburator with an ascending action."—Dated 12th May, 1859.

40,970. DAVID, domiciled at 20, Rue St. Fiacre, Paris, for "A gas-carburator with a compensating action."—Dated 12th May, 1859.

40,972. DUPAS, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "An indicator of pressure."—Dated 11th May, 1859.

40,973. DUSART and GÉLIS, the former of 6, Passage Neveux, the latter of 47, Rue Meslay, Paris, for "Applying naphthaline to the manufacture of colouring substances for painting and dyeing."—Dated 13th May, 1859.

40,974. FONTANT, of Melle, département des Deux Sèvres, for "Improvements in his corograph or liquid for removing fresh stains or marks from paper, as patented 20th May, 1858."—Dated 19th May, 1859.

40,975. GAUDIER and MARCHAND, the former of 23, Rue Thévenot, the latter of 286, Rue St. Martin, Paris, for "An apparatus for registering distances travelled over by carriages."—Dated 13th May, 1859.

40,976. HEIM, of Colmar, for "A clack-valve stopper for casks."—Dated 20th May, 1859.

40,977. ISOARD, jun., of 60, Rue Fontaine au Roi, Paris, for "Decomposing water by means of the expansion of heat and of the affinity existing between both oxygen and hydrogen and carbon gas."—Dated 12th May, 1859.

40,978, LAC DE BOSREDON, domiciled with Beluze, of 3, Rue Corneille, Paris, for "A calculating machine."—Dated 14th May, 1859.

40,979. LEGENDRE, jun., of Poncet, Commune de Saint James, département de la Manche, for "A churn."—Dated 18th May, 1859.

40,980. LEMOINE, of 3, Rue Michel-Montaigne, Bordeaux, for "A pressure-cylinder, worked by steam."—Dated 24th May, 1859.

40,981. LESLIE, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of gas."—Dated 14th May, 1859.—(English Patent, 18 November, 1858.)

40,982. MARIGNAN, jun., and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the arrangement of hydraulic turbines."—Dated 12th May, 1859.

40,983. MAUDOY, of 59, Rue de Charenton, Paris, for "A machine for moulding cast-iron, and other metals."—Dated 14th May, 1859.

40,984. MAYET, of 3, Rue Saint Marie des Terreaux, Lyons, for "Distilling bituminous schist."—Dated 19th May, 1859.

40,985. MAZELINE and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Applying the so-called 'Feed-injector to the navy.'"—Dated 12th May, 1859.

40,986. MONILLERON, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An electric apparatus for showing the progress of railway trains."—Dated 14th May, 1859.

40,987. PAINE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the treatment of air and gas, and in

using the former for obtaining motive power."—Dated 11th May, 1859.—(English Patent, 4th November, 1858.

40,988. Pignière, of 20, Rue du Port-du-Temple, Lyons, for "A hydro-pneumatic engine."—Dated 21st May, 1859.

40,989. Premillieu, domiciled at the Prefecture, Lyons, for "A crinoline stay, called 'Rosmeli-Ria.'"—Dated 20th May, 1859.

40,990. Renon, of 68, Rue de Rivoli, Paris, for "A projecting apparatus."—Dated 25th March, 1859.

40,991. Risler, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the card, cleaners, &c. of spinning machines."—Dated 12th May, 1859.

40,992. Robert, of 37, Rue du Petit-Mase, for "A system of stereoscopes."—Dated 12th May, 1859.

40,993. Ruvin, of Chartres, département d'Eure and Loire, for "A machine for cleaning and sorting corn."—Dated 24th May, 1859.

40,994. Schroder, domiciled with Libert, of 53, Rue Vivienne, Paris, for "An apparatus for extracting sugar from molasses."—Dated 14th May, 1859.

40,995. Vaillant, sen., of Algiers, for "Trusses with a gradual pressure."—Dated 19th January, 1859.

40,996. Weil, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in fish hooks."—Dated 11th May, 1859.

40,997. Aubry, domiciled with Sissier, of 71, Rue du Faubourg St. Antoine, Paris, for "A machine for spinning cane."—Dated 16th May, 1859.

40,998. Baudet, jun., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of buckles."—Dated 14th May, 1859.

40,999. Blanquet, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for finishing tissues."—Dated 14th May, 1859.

41,000. Bohmé, of St. Quentin, département de l'Aisne, for "A rotary pump with a moveable closing apparatus."—Dated 25th May, 1859.

41,001. Boullian and Saltet, brothers, of Nîmes, département du Gard, for "Gold paper pulp."—Dated 23rd May, 1859.

41,002. Chevassu, of 11, Rue du Port-Mahon, Paris, for "Using magnetic attraction for rendering locks safer.—Dated 17th May, 1859.

41,003. Dezaux-Lacour, of Guise, département de l'Aisne, for "Using gutta percha and isinglass for the manufacture of jointed straps without seams or rivets."—Dated 25th May, 1859.

41,004. Eckhorn, represented by Brade, of 29, Rue Ste. Anne, Paris, for "A so-called 'Universal lamp-regulator.'"—Dated 17th May, 1859.——(English Patent, 13th April, 1859.)

41,005, Fercot, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in patent oil axles."—Dated 14th May, 1859.

41,006. Fernandez, of 14, Rue Neuve St. Eustache, Paris, for "An essence for removing grease."—Dated 17th May, 1859,

41,007. Floire, of 52, Rue des Ayres, Bordeaux, for "Electric breaks."—Dated 26th May, 1859.

41,008. Fortin, of 40, Rue Marengo, St. Etienne, département de la Loire, for "Cement painting, called 'Philolithe-pictura.'"—Dated 24th May, 1859.

41,009. Grébel, of Denain, département du Nord, for "Cast-iron tubular beams."—Dated 27th May, 1859.

41,010. Grunler, of 56, Rue Notre Dame de Nazareth, Paris, for "Applying skins, leather, oiled, varnished, or caoutchouc stuffs to cravats, ladies' belts, and to other similar articles."—Dated 16th May, 1859.

41,011. Houget, of Denain, département du Nord, for "A system of air-holes for ventilation."—Dated 27th May, 1859.

41,012. Johns, represented by Girard, of 85, Rue de Sèvres, Paris, for "An article of military equipment."—Dated 17th May, 1859.—(American Patent, 12th April, 1859.)

41,013. Jully-Degrond, of Chatillon-sur-Seine, département de la Côte d'Or, for "A press for squeezing."—Dated 23rd May, 1859.

41,014. Krafft, of 9, Rue de Paradis Poissonnière, Paris, for "Various modes of applying india-rubber."—Dated 17th May, 1859.

41,015. Lagoutte, of Chausée Ménilmontant, Belleville, département de la Seine, for "A sewing machine,"—Dated 16th May, 1859.

41,016. Lauranson, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Applying the galvano-plastic process to gold articles and jewelry."—Dated 17th May, 1859.

41,017. Levêque, of 19, Quai d'Orléans, Nantes, for "A suspensory."—Dated 20th May, 1859.

41,018. Magalon, of 50, Rue des Trois Mages, Marseilles, for "Oil bags with rounded-off corners."—Dated 23rd May, 1859.

41,019. Marin, of 299, Grande Rue, La Chapelle St. Denis, département de la Seine, for "Soldiers' haversacks."—Dated 18th May, 1859.

41,020. Martin, of 43, Rue St. Nicholas d'Antin, Paris, for "Removing incrustations from boilers."—Dated 17th May, 1859.

41,021. Peltier, junr., of 45, Rue des Marais St. Martin, Paris, for "A cooking apparatus with a motor."—Dated 16th May, 1859.

41,022. Prodon-Bonneton, Farge, and Boyer-Farge, of Thiers, département du Puy de Dôme, for "Manufacture of blades, lining-plates, and springs for cutlery."—Dated 10th May, 1859

41,023. Prudent, of 20, Rue de Chabrol, Paris, for "Opera-glasses."—Dated 16th May, 1859.

41,024. Rigault, of 71, Avenue de St. Cloud, Versailles, for "A wallachian or molda-wallachian system for umbrellas."—Dated 23rd May, 1859.

41,025. Robson, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Compositions for joints, coatings, and other purposes."—Dated 16th May, 1859.

41,026. De Rose and Gin, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of repairing or assembling pipes of india rubber or

other similar substances." — Dated 17th May, 1859.

41,027. Rougier, of Nanterre, département de la Seine, for "An apparatus for distilling fat substances."—Dated 18th May, 1859.

41,028. Van Den Bergh, of 8, Rue St. Pierre, Passy, pépartement de la Seine, for "A double-action ventilator for heating and airing."—Dated 17th May, 1859.

Certificates of Addition.

37,738. Durand and Trozet, for "Velvet."—Dated 14th April, 1859.

37,993. Barroux, for a "Railway."—Dated 20th April, 1859.

38,653. Béjot-Gandel and Guérin, for a "Pump."—Dated 8th April, 1859.

36,414. Déveille, for a "Break."—Dated 4th May, 1859.

33,917. Jumelais, for a "Motor."—Dated 26th April, 1859.

34,544. Laborey, for "Decortication."—Dated 30th April. 1859.

38,103. Libotte, for a "Parachute of mines."—Dated 23rd April, 1859.

39,433. Mongin, for a "Saw."—Dated 27th April, 1859.

38,211. Neustadt, for a "Carriage."—Dated 28th April, 1859.

37,886. Pape, for a "Musical instrument."—Dated 29th April, 1859.

32,254. Pernet, for a "Conveyance."—Dated 2nd May. 1859.

39,950. Pesier, for "Sugar."—Dated 7th May, 1859.

33,925. Platel, for a "Fire-arm."—Dated 26th April, 1859.

37,302. Queval, for a "Telegraph."—Dated 22nd April, 1859.

38,051. Rama, for "Metallurgy."—Dated 23rd April, 1859.

25,821. Rapp, for "Sewing."—Dated 23rd April, 1859.

37,399. Robert, for a "Motor."—Dated 26th April, 1859.

36,202. Sonnet, for "Grain."—Dated 27th April, 1859.

36,431. Thompson, for a "Telegraph."—Dated 28th April, 1859.

39,187. Varenne, for a "Smoking pipe."—Dated 26th April, 1859.

36,788. Vaudoré, for "Gas."—Dated 26th April, 1859.

40,412. Villard, for a "Garden seat."—Dated 30th April, 1859.

33,210. Alleau, for "Brandy."—Dated 14th May, 1859.

38,639. Babonneau, for a "Motor."—Dated 9th May, 1859.

32,690. Bandonneau, for "Foot coverings."—Dated 7th May, 1859.

38,835. Bastable, for "Lighting."—Dated 5th May, 1859.

40,836. Bourdin, for "Cooking."—Dated 11th May, 1859.

30,227. Bourgouin, for an "Inlaid floor."—Dated 7th May, 1859.

37,703. Bréchon and Robin, for "Husking."—Dated 10th May, 1859.

36,895. Brinkman, for a "Syringe."—Dated 4th May, 1859.

36,643. Callaud, for "Electricity."—Dated 18th May, 1859.

21,282. Claudon and Co., for a "Pump."—Dated 23rd April, 1859.

25,371. Constant, for "Skidding."—Dated 18th May, 1859.

36,280. Daniel, for a "Piston."—Dated 15th April, 1859.

23,227. Deger, for a "Tap."—Dated 6th May, 1859.

39,646. Dehaynin, for "Fuel."—Dated 7th May, 1859.

33,815. Delamare, for "Weaving."—Dated 16th May, 1859.

33,220. Deparis, for a "Sowing machine."—Dated 9th May, 1859.

39,671. Duchesne, for a "Shirt."—Dated 9th May, 1859.

36,313, Engles, for "Enamelling."—Dated 2nd May, 1859.

25,743. Fleur, for "Plough."—Dated 9th May, 1859.

34,502. Galvaire and Lerdier, for "Weaving."—Dated 29th April, 1859.

36,512. Giffard, for a "Steam boiler."—Dated 7th May, 1859.

29,414. Hofer, for a "Regulator."—Dated 2nd May, 1859.

36,133. Houssier, for a "Shelter."—Dated 17th May, 1859.

35,648. Miss Jack, for an "Artificial flower."—Dated 4th May, 1859.

37,041. Karst, for "Embroidery."—Dated 19th May, 1859.

36,419. Lamy, for "Impressions on crystal."—Dated 2nd May, 1859.

28,532. Lefebvre and Co., for a "Frame."—Dated 10th May, 1859.

39,779. Lingée, for "Cement."—Dated 7th May, 1859.

36,585. Marin, for "Mastic."—Dated 18th May, 1859.

36,555. Massé, for "Heating."—Dated 9th May, 1859.

40,504. Mondon, Milland, and Co., for "Weaving."—Dated 11th May, 1859.

39,084. Mongelard, for a "Puzzle box."—Dated 9th May, 1859.

36,627. PINAULT, for "Building."—Dated 5th May, 1859.

34,712. REISLER, for "Starch."—Dated 7th May, 1859.

39,403. ROQUIN-EVRARD, for a "Crushing-mill."—Dated 2nd May, 1859.

39,371. SAX, for a "Musical instrument."—Dated 30th April, 1859.

38,538. SEHEU, for a "Dutch-oven."—Dated 9th May, 1859.

35,233. THIERRY, for "Smoke-consumption."—Dated 11th May, 1859.

36,889. VENOT, for an "Axle."—Dated 17th May, 1859.

37,435. WANSON, for a "Tap."—Dated 10th May, 1859.

23,719. WHITWORTH, for "Artillery."—Dated 5th May, 1859.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 22nd November, 1859, and each bearing that date.

No. 26,150. CHARLES J. ADDY, of Roxbury, Mass., for an "Improved clock escapement."

"I claim the independent gravity pallet *f*, provided to a fixed bearing, in combination with a recoil pallet, swinging with the pendulum, in the manner substantially as set forth."

No. 26,151. MOSES ALLAN, of Utica, N.Y., for an "Improvement in metal planing machines."

"I claim, first, the construction of the apparatus F, E, *g*, shewn in Fig. 2, and its adaptation to the use of the ordinary planing machine, and its combination therewith, and for the purposes described. Second, the combination of the bearing stands H, I, and the disc M, with the carriage of the machine, connected and arranged substantially as described and for the purposes described, the whole being constructed, combined, and operating, substantially in the manner herein set forth."

No. 26,152. E. G. ALLEN, of Boston, Mass., for a "Combination steam gauge."

"I claim the combination and arrangement of the several instruments requisite to enable the engineer to regulate the proper working of steam machinery, substantially as herein set forth, the said instruments being inserted in one case, and having the hands or other indicators upon one face or dial plate, in the manner and for the purposes specified."

No. 26,153. SAMUEL BARBER, of South Brunswick, N.J., for an "Improved washing machine."

"I claim the combination with lever N, for operating the frame D, of a curved extension guide R, for adjusting the frame, in the manner above set forth; and 2nd, the arrangement with the above of the serrated arc J, on top of the dash board G, for adjusting the inclination of said board, for the purposes and in the manner specified."

No. 26,154. ELI BARTHOLOMEW, of Cleveland, Ohio, for an "Improvement in bee hives."

"I claim the arrangement of the outer casing A, and the inner casing B, in relation to each other, and the ventilating openings H, in cover G, which cover is furnished with top K, and boxes L, L, in the manner and for the purposes herein specified."

No. 26,155. JERRED BEACH, of Freeport, Pa., for an "Improved saw-set."

"I claim the arrangement of the guide (*c*), with slot (*g*), levers (*f* and *m*), connecting link (*o*), set screws (1, 2, 3, 4, and 5), when used in connection with the gauge (*a*), graduating rest plate (*d*), regulating screw (*e*), anvil (*i*), and set (*j*), the whole being arranged and constructed substantially as herein described for the purpose set forth."

No. 26,156. D. BERRY, of Huntingdon, Ind., for an "Improvement in automatic canal bridge."

"I claim the bridge I, arranged to work on inclined ways F, H, and connected by a chain and wheel M, N, or their equivalents to a shaft O, which is connected by gearing to segments Q, in line with the bridge and the boat, so that the former can be actuated by the movement of the latter, substantially as described."

No. 26,157. MILTON B. BISHOP, of Whitingham, Vt., for an "Improvement in washing machines."

"I claim the means of operating the two wash boards, viz., the arrangement and application of the two sets of levers or brakes F, H, together and with respect to the wash boards B, C, disposed one over the other, and in the tub, as described. I also claim, in combination with the upper wash board B and its brake H, the rocker shaft K, the slide bar L, and the springs M, M, the same being for the purpose or objects as specified, meaning also to claim the combination of the said rocker shaft, the slide, and springs."

No. 26,158. WENDLIN BLESER, of New York, N.Y., for a "Composition cement or mortar."

"I claim the mortar above described, made and employed, substantially as set forth."

No. 26,159. JOSEPH W. BRADLEY, of New York, N.Y., for an "Improvement in ladies' bustles."

"I claim a bustle, consisting of a waist band, composed in part of strips *a*, *a*, of metal or other elastic material, and a spiral spring A, tapered from the middle towards each end, applied to and combined with such waist band, substantially as herein described."

No. 26,160. LOCKWOOD B. BROOKS, of New York, N. Y., for an "Improvement in steam valves."

"I claim rendering the two parts B and C of the balanced puppet valve adjustable, relatively to each other, by connecting the stem B^1 to the sleeve C^1, by the yoke D, or its equivalent, arranged and operated substantially in the manner and for the purposes herein set forth."

No. 26,161. GEORGE CAWARD and DAVID C. CAWARD, of Prattsburgh, N.Y., for an "Improvement in road scraper."

"We claim the reversible revolving and adjustable blade B with the adjusting boxes C, when made and operated as and for the purpose specified. Also the circular arms D with the wheels E, when made and used as specified, and for the purpose set forth."

No. 26,162. A. J. CHAPMAN, of Bayon Goula, La., for an "Improvement in bagasse furnaces."

"I claim, 1st, the employment of the central air-heating chamber *n*, having discharge passages n^2 leading into the furnace in its sides, and a central descending flue *i*, in combination with a double-walled furnace F, having an air-heating chamber *f* between its walls and discharge passages *z* through its inner wall leading into the fire chamber, substantially as and for the purposes set forth. 2nd, the combination of the partition and valved air-heating chamber *f*, V, X, between the walls of the furnace, with the upper

and lower hot air passages *a*, *b*, and mixing chamber *c*, substantially as and for the purposes set forth. 3rd, the combination of the auxiliary valved flue Y, *e*[1], leading directly to the chimney, with the valve *d*, boiler flue B[1], *e*, and the furnace F, substantially as and for the purposes set forth. 4th, the combination of the valve O[1] in the hopper, with the cylinder feeder S, carrier drum *h*[3], cam *l*[1], and lever O, substantially as and for the purposes set forth."

No. 26,163. MATTHIAS P. COONS, of Brooklyn, N. Y., for an "Improvement in apparatus for generating illuminating gas."

"I claim, 1st, the particular form and manner of constructing and combining a gas-generating retort, consisting of a fusion chamber and barrel, as represented by Fig. 1, A, Nos. 1 and 3, as combined for the purpose specified. 2d, I also claim the diaphragm J, in combination with the chamber F and D, and diaphragm N, as represented in Fig. 4, in the manner and for the purpose specified. 3d, I also claim the chamber H, Fig. 7, constructed as and in combination with the other apparatus specified. 4th, I also claim the chamber K, Fig. 9, as attached to the cover M, in connection with the escape pipe L, with a stopcock, or its equivalent, attached in the manner and for the purpose specified. 5th, I also claim, in combination with the apparatus specified, the projecting ridge on facing rim or flange O, and the corresponding groove P in the door N; and also I claim, in combination, the yoke or bar R, and crank screw S, as combined, and also the hook hinges X, all of which is represented by Fig. 10, all of which as herein set forth and specified."

No. 26,164. BENJAMIN P. CRANDALL, of New York, N. Y., for an "Improvement in children's sleds."

"I claim connecting the head and neck (A) of the horse to the bottom, or in front thereof, of a child's sled, having spring or other runners in such a manner that the pole may be secured under the bottom (B) of the sled, substantially as shown in the drawings at Fig. 1, and for the purpose set forth."

No. 26,165. EDWARD CRANE, of Dorchester, Mass., for an "Improvement in locomotive engines."

"I claim the combination, in a locomotive, of a boiler and engine with a water tank, coal box, blower, and baggage department, on one long truck frame, suspended underneath the axles of the wheels, arranged substantially as herein described."

No. 26,166. EDWARD CRANE, of Dorchester, Mass., for an "Improvement in railroad cars."

"I claim the use of a single long truck for the support of a railroad car, when the frame of said truck is constructed and suspended, substantially as herein described. I claim the use of cylindrical bars of iron passing across under the frame of the truck, and nearly in contact with the rails, for the purpose of keeping the truck frame from striking the rails or ground, in case the car leaves the track."

No. 26,167. D. M. CUMMINGS, of Endfield, N.H. for an "Improvement in harrow teeth."

"I claim, first, constructing the tooth A of a harrow with prongs B, sharp pointed shields C, substantially as and for the purpose specified. Second, in combination with the above, the wedge-shaped plate D, substantially in the manner and for the purpose described."

No. 26,168. JOHN DAVIS and EBENEZER DATVIS of Matildaville, Pa., for an "Improvemen in launching flat boats."

"We claim the combination of the hinged projection beams C, with the shoulders *a*, pulleys *p*, and ropes *d*, substantially as and for the purpose herein set forth, when used in connection with the permanent staging S."

No. 26,169. HARRISON DOTY, of Cardington, Ohio, for an "Apparatus for supplying saw dust to furnaces."

"I claim the employment of the latch D, when the same is constructed and arranged to operate, substantially as in the manner and for the purpose herein set forth. I also claim the arrangement of the hinged bottom B, provided with the adjustable weight *d*, with the latch D, provided with adjustable weight *a*, and with the stationary box A, for the purpose set forth."

No. 26,170. CHARLES DOUGLAS, of Hebron, Conn., for an "Improvement in wagon jacks."

"I claim, 1st, the combination and arrangement of the lever (E), pawl (F), ratchet plate (D), rod (C), and stock (A), substantially as described, for the purpose set forth. Second, the pawl (F), when used for the double purpose of a pawl on the ratchet plate (D), and a fulcrum for the lever (E), as and for the purposes herein described."

No. 26,171. C. W. DURKEE, of Hartford, Wis., for an "Improvement in grain binders."

"I claim, first, the combination of the travelling segment D, jointed arm G, its rod G[1], connecting rod I, and rack H, operated by pinion J, rack J[1], when the same are arranged and operate as herein set forth. Second, I claim the swinging rack K, in combination with the travelling segment D, for receiving and holding the pinion J, while the end of the arm G, is being passed through the loop, in the manner set forth. Third, I claim the loop holder *c*, trip block *d*, and block *e*, arranged and operating substantially as and for the purpose herein set forth."

No. 26,172. ASAHEL K. EATON, of New York, N.Y., for an "Improvement in vulcanizing rubber compounds."

"I claim the use of a metallic bath, substantially as herein described, for the purpose of vulcanization."

No. 26,173. GUSTAVUS G. ELIAS, of Lancaster, Pa., for an "Improved cabbage cutting machine."

"I claim the specific arrangement and combination of the sliding box C, with its notches P, flat spring N, and retaining plates I, the double-coned spiral spring K, with its square bottom L, and armed top H, the counter cutting knives 1, 2, and central division 3, on the table A, provided with legs, fly wheel E, crank or connecting rods F, when these several parts are made, substantially as and for the purpose specified."

No. 26,174. E. N. ELLIOT, of Port Gibson, Miss., for an "Improvement in cotton presses."

"I claim, first, the employment of the hinged forms (B) (forming part of the box (A), in combination with the follower (R), said forms being so arranged as to receive the cotton and to act as guides for the follower, substantially as described. 2d, I claim the employment of the weighted follower R in connection with the spring bolts *g*, or their equivalent, whereby the loose cotton is instantly, at the proper time, brought down and held in the proper space, to be acted upon by the followers F, substantially as deseribed. 3d, I claim the arrangement of the doors S, S, and T, with reference to the box A and the position of the bale therein, when fully compressed, by means of which I am enabled to apply and secure the covering without sewing, substantially as described. 4th, I claim the arrangement of the rod M and stops N, N[1], with reference to nut H, and its movement, whereby the clutch L is not only disconnected from the pullies J and K at the proper times, but also prevented from connecting, by accident, or otherwise, as described."

No. 26,175. GEORGE AUGUST ENGELHARD, of New York, N. Y., and RUDOLPH FRANZ HEINRICH HAVEMANN, of New Brunswick, N. J., for an "Improvement in compounds of caoutchouc and allied gums."

"We claim the within-described product obtained by the action of chlorine on gums, such as india rubber or gutta percha, whether in solution or substance, in either of the modes above pointed out, or in any other that is substantially the same, and which will produce a like effect."

No. 26,176. A. J. EMLAW, of Grand Haven, Mich., and ELLIOT RICHMOND, of Kelloggsville, Mich., for an "Improvement in saw-mills."

"We claim, first, the arrangement of the friction wheel M and pulleys I, J, in connection with the shafting E, H, K, for the purpose of giving the feed and gigging back movement to the carriage M[1], as set forth. Second, the arrangement of the adjustable bars O on the carriage M, screw rods P, and adjustable wheels Q, on shaft R, whereby the bars O may be adjusted nearer to or farther from each other to suit the length of the stuff to be sawed."

No. 26,177. DENNIS C. GATELY, of Newtown, Conn., for an "Improvement in rubber belting."

"I claim, as a new article of manufacture, machine belting or banding manufactured with surfaces of india rubber

or gutta percha, and having surfaces which are as nearly as is practically possible perfectly smooth, as described."

No. 26,178. Dennis C. Gately, of Newtown, Conn., for an "Improvement in making rubber belting."

"I claim the method above described for manufacturing machine belts or bands of india rubber or gutta percha by rolling them in thin sheets of flexible metal and then heating them, substantially in the manner and for the purposes above described."

No. 26,179. Oliver C. Green, of Dublin, Ind., for an "Improvement in harrows."

"I claim the described arrangement of the harrow teeth *a*, beams *b*, wheels *c*, arms *d*, lever *e*, rods *g*, and rack *h*, the whole being constructed and operating together in the manner and for the purposes set forth."

No. 26,180. John Griffin, of Louisville, Ky., for an "Improvement in cotton harvesters."

"I claim the employment or use of annular chambers E, communicating with the cups D of the suction tube or tubes A, C, by means of perforations *b*, and communicating with a steam or air chamber by means of flexible tubes G, substantially as and for the purpose set forth."

No. 26,181. P. Griswold and H. H. Seeley, of Hudson, Mich., for an "Improvement in grain separators."

"We claim the combination with the screen D of the rocking bar L and vibrating bar E, as shown and described, for the purpose set forth."

No. 26,182. John P. Hale, of Kanawha, C. H. Va., for an "Improvement in evaporating vessels."

"I claim the superheating of the steam or vapor arising from the evaporation of the brine, substantially as and for the purpose herein shown and described."

No. 26,183. A. J. Hall and Russell Patten, of Morristown, Vt., for an "Improvement in carriage tops."

"We claim the construction of bows for folding carriage tops with joints, substantially as and for the purposes set forth."

No. 26,184. Louis Harper, of Riceville, N. Y., for an "Improvement in fertilizers."

"I claim, 1, the preparation of the peat or muck or lignite, and their mixture with sulphate of lime, soda, potash, and magnesia, where required to form the bases of the preparation intended for composition of the fertilizer. 2, the addition of phosphate and bi-phosphate of lime to the above basis, and the impregnation of the above mixture with ammonia, in the manner described, so as to be converted into simple and double salts, as above stated. 3, the combination of peat or muck or lignite, prepared as described, with green sand marl."

No. 26,185. Lewis G. Hoffman, of Waterford, N. Y., for an "Improved door fastening."

"I claim the above-described button, as a new article of manufacture."

No. 26,186. Julius Hornig, of Newark, N. J., for an "Improved cut-off arrangement for steam valves."

"I claim the employment for opening and controlling the closing of the cut-off valve of a revolving and swinging cam C applied in combination with and operated by a revolving wrist plate D, or its equivalent, and a grooved disk E, substantially as herein described."

No. 26,187. Joshua L. Husband, of Philadelphia, Pa., for an "Improved propelling wheel."

"I claim the combination of the guides E and F, the arms A and A^1, the connecting rods D and D', the double cranks L and M, and the sectional paddles H, operating together, in the manner and so as to produce the effects above described."

No. 26,188. R. W. Houston, of Calais, Me., for an "Improvement in coal hods."

"I claim the arrangement of the bucket C with the external casing A, when the bucket is provided with a rim or flanch *c* around its top and with a pin on its bottom upon which it revolves, and when the external casing is provided with a top which fits snugly around the bucket and over the rim or flanch, with a channel D and with a door to said channel, the whole being used substantially as and for the purpose specified."

No. 26,189. George E. Inman, of Buffalo, N. Y., for an "Improvement in ditching machine."

"First, I claim the cutter M, arranged and operating substantially as set forth. Second, I claim the arrangement of the adjustable roller (L) under the elevated part of the share C, substantially as set forth. Third, I claim the arrangement of the caster wheel (I), plow (G), cutter M, adjustable roller (L), and plowshare (*c*, c^1,) and side pieces (D), relatively to each other, substantially as described. Fourth, I claim the arrangement of the two driving wheels B, B, on the same shaft, when placed so near together as to track within the ditch cut by the horizontal share *c*, substantially as described."

No. 26,190. Luther Johnson, of Grand Ledge, Mich., for an "Improvement in rotary steam engines."

"I claim, first, the employment, in combination with a sliding abutment fitted to the outer stationary cylinder, of an inner revolving cylinder, having a concentric groove or channel closed permanently in one place by a piston extending all across it, substantially as herein described. Second, operating the abutments E, E^1, and the cut-off valves G, G^1, by means of the same cams F, F, through the agency of rollers *g*, *h*, g^1, h^1, or their equivalents, applied to the abutments and yokes *k*, k^1, rods L, L^1, and levers M, M^1, and arms *n*, n^1, applied to the cut-off valves, the whole arranged and operating substantially as herein described. Third, the two sliding reversing valves, applied in combination with the two sets of steam pipes in relation to the abutments, and operated simultaneously by a single lever, substantially as herein described."

No. 26,191. H. P. Judson, of Bethlehem, Conn., for an "Improvement in ox yokes."

"I claim the arrangement of the peculiar rotary spring disc D, curved rods F, G^1, and horizontally moving locking bolts B, B^1, as and for the purpose herein shown and described."

No. 26,192. Cheney Kilburn, of Burlington, Vt., for an "Improved lathe attachment."

"I claim the rotating reciprocating knife (D), in combination with the carriage (B), provided with the gouging tool (F) and V-shaped cutter (G), pattern (L), recess (H), and support (L), when arranged and operated as herein set forth, and for the purpose specified."

No. 26,193. Elisha C. Leonard, of New Bedford, Mass., for an "Improvement in manufacture of paraffine candles."

"I claim my improvement or improved process of treating paraffine in the manufacture of candles therefrom, whereby I am enabled to dispense with a refrigerating air bath cooled by artificial means, my improvement or invention consisting in the employment, in manner described, of the atmospheric temperature and the refrigerating water bath after the first cooling of the candle in the water bath."

No. 24,194. Edward J. Mallett, of New York, N. Y., for an "Improvement in railroad car axles."

"I claim the combination and arrangement of the parts as represented, for the purpose of forming an axle, on which the wheels shall have an independent motion, the whole constructed substantially as described for the purpose set forth."

No. 26,195. Charles F. Mann, of Troy, N. Y., for an "Improvement in traction locomotives carrying their own railway."

"I claim so applying the endless chains A, as to make them not only the track for the supporting wheels B, of the locomotive to run on, but also the means by which the engine propels the locomotive along the ground, substantially as herein described."

No. 26,196. James J. Mapes, of Newark, N.J., for an "Improvement in fertilizers."

"I claim the production of a fertilizer, by combining guano and sulphate of ammonia, or its equivalent, with burnt bones, or their equivalent, when the said bones, or equivalent, have been treated by sulphuric acid, as specified, the whole being prepared substantially in the manner and for the purpose set forth."

No. 26,197. Thos. J. Mayall, of Roxburg, Mass., for an "Improvement in scythe rifles."

"I claim, as a new article of manufacture, 'rifle' for sharpening scythes, &c., formed of india rubber or gutta percha, with which emery, sand, or other suitable gritty substances are incorporated, substantially as set forth."

No. 26,198. Wm. Morrison, of Carlisle, Pa., for an "Improvement in harvesters."

"I claim providing the rear end of the finger with the open slot *d*, whereby I am enabled to readily remove the stationary cutters and fingers, and to replace them without detaching the bolts or nuts which secure the fingers to the finger bar, in the manner and for the purpose specified."

No. 26,199. Martin Nixon, of Philadelphia, Pa., for an "Improvement in boilers for treating paper stock."

"I claim the close spherical kier or boiler A, journaled on hollow trunnions B, and provided with a perforated floor F, G, steam pipes D and E, and elevating and distributing pipes I and J, the whole being constructed and arranged and operating, substantially in the manner set forth, to boil paper stock under a heavy pressure, by the combined action of an upward current of steam and a downward current of hot alkaline solution, and admitting of the ready inversion of the said boiler, for the discharge of its contents, when cooked."

No. 26,200. John K. O'Neil, of Kingston, N.Y. for an "Improvement in vapor lamps."

"I claim the arrangement of the auxiliary burner G, in connection with the gas generating chamber E, in such manner that a cessation of its action on said chamber may at any time be effected without extinguishing its light by the separation of said burner from its influence on said chamber, as described and for the purpose specified. I also claim the spiral revolving shade, in combination with the auxiliary burner, as described and for the purpose set forth. I also claim the construction and arrangement of the burner G, and graduating tube *g*, in combination as described, and for the purpose specified."

No. 26,201. Wm. Pearson, of Windsor Locks, Conn., for an "Improvement in sewing machines."

"I claim the combination of the vibrating looper, the cam flange, which operates it, and the vibrating bar J, carrying the friction rollers *j*, *j*, the parts being constructed, combined, and arranged, substantially as and for the purposes set forth."

No. 26,202. J. B. Palmer and G. Howland, of Fort Edward, N.Y., for an "Improvement in manufacture of paper pulp."

"We claim the boiling of the straw or other 'stock,' for about four hours, under a pressure of from 110 lbs. to 130 lbs., in a solution of caustic alkali, of a strength indicating from 3½° to 3¾° Beaumé, substantially in the manner and for the purpose herein set forth."

No. 26,203. Wm. Phelps and W. H. Hanford, of Sycamore, Ill., for an "Improvement in horse power machines."

"We claim the combination and arrangement of the wheels and rollers C, C, C, and D, D, D, on track B, and wheel H, and friction rollers I, I, I, and J, J, J, on track H, and friction rollers R, R, R, on rotary track O, with rotary drive wheel N and friction rollers U, constructed and operated substantially as described."

No. 26,204. Francis B. Richardson, of Boston, Mass., for an "Improvement in elastic enema syringes."

"I claim the improvement in india-rubber syringes as an article of manufacture, which consists in combining the india rubber or gutta percha, or other waterproof bag, with the suction end of the syringe, in the manner substantially as described."

No. 26,205. T. J. W. Robertson, of New York N.Y., for an "Improvement in sewing machines."

"I claim, first, the employment in combination with the needle of a sewing machine of a plate K, constructed and operating substantially as herein shown and described for the purpose of laying and holding braid gimp, or other material, upon the surface of the fabric as set forth. Second, the arrangement of the guides *e*, *e*, *e*, to extend past the centre, and on each side of the needle hole, as and for the purpose herein set forth. Third, the employment, in combination with a braid holder M, of the adjustable slide N, for the purpose of flattening and opening the braid, and preventing its kinking, as herein shown and described."

No. 26,206. John A. Seaman, of St. Louis, Md., for an "Improved machine for chamfering and crozing kegs or casks."

"I claim the rotating arms *a*, provided with the adjustable jaws *b*, the adjustable rotating ring G, fitted to the annular plate D by the screws and guides E, F, the plate D being provided with the tool-holding levers I, J, attached to the guide shafts C, and supported by the springs E and the shafts C connected to a treadle frame H, the whole being combined and arranged to operate substantially as and for the purpose set forth."

No. 26,207. Lemuel W. Serrell, of Brooklyn, N.Y., for an "Improvement in guides for sewing machines."

"First, I claim a spring tucker acting to fold the edge of the hem against the plate of the hammer, when combined with the adjusting screw 4, or its equivalent, whereby the pressure of the tucker on the goods, and the opening or mouth left for their passage, are regulated as set forth. 2d, I claim the horn 5, in combination with the tongue *c*, for the purposes and as specified. 3d, I claim the arrangement of the hem spreader stock *h*, and gauged for the purposes and as specified. 4th, I claim attaching the guide or hemmer to the sewing machine by a cylindrical pin or hinge to permit the said guide or hemmer to be turned up or inverted so that the edge of the cloth at the beginning of hem can be properly entered and folded while in this position as set forth."

No. 26,208. Daniel Spencer, of Cortlandt, N.Y., for an "Improvement in grain separators."

"I claim the combination with a grain separator between the fan shaft and the separating screens of a shaft H, and a series of sliding wheels I, substantially as shown for the purpose set forth."

No. 26,209. John F. Stark, of Greensburgh, Pa., for a "Composition for protecting and ornamenting the surface of wood."

"I claim the employment of a compound composed of sulphur and alcohol, or sulpher and the alcoholic varnish herein described, in the proportions and manner herein shown and described for the purpose set forth."

No. 26,210. James Stratton, of Brooklyn, N.Y., for an "Improved apparatus for regulating the pressure of water in pipes."

"I claim the employment or use of the air chamber E, diaphragm D, or its equivalent, with valve C attached, the pipe B containing valve C, and communicating with the air chamber by pipe F, provided with the cocks H, I, and the pipe G, communicating with the pipe F and B, the above parts being arranged in relation with each other and the supply pipe A, to operate as and for the purpose set forth."

No. 26,211. L. Taylor, of Jordan, Wis., for an "Improvement in apparatus for elevating water from wells, &c."

"I claim, first, the employment or use of the springs D, arranged in connection with traveling jackets G, I, and receivers B, B^1, to operate as and for the purpose set forth. 2nd, the means substantially as shown, of connecting the bucket I to the carriage J, to wit, the lever *x*, on the carriage provided with the loop *w*, and the bail w^1 of the bucket, with its pulley *v*, in connection with the pulleys e^1, e^1, on the carriage, and the taper rod g^1, and catch h^1, in the well house L, whereby the bucket is drawn up the wire or way, and dropped and raised from the well."

No. 26,214. David Walling, of Garrettsville, N.Y., for an "Improvement in washing machines."

"I claim the combination of weighted arms D, D, jointed connecting rod H, angular lever G, rod *a*, vibrating dash-board K, and dash-board M, when the same are all arranged and operate as set forth."

No. 26,213. Thos. Tripp, of Buffalo, N.Y., for an "Improved propeller wheel."

"I claim a propeller wheel, having blades formed, in respect to their main propelling surfaces, and also in respect to their outward arcs, substantially as herein described."

No. 26,212. Samuel Thomas and John Thomas, of Cattasauqua, Pa., for an "Improvement in air heating pipes for blast purposes."

"We claim supporting both of the legs of the arched pipes G upon one bottom tube, constructed substantially as described, so that injury to said pipes by the displacement of the bottom tubes will be prevented, and so that each bottom tube, with its connected arched pipes, may be removed and replaced without disturbing any of the remaining arched pipes or bottom tubes, all as set forth."

No. 26,215. Moses D. Wells, of Morgantown, Va, for an "Improved washing machine."

"I claim the reciprocating plunger, operated as described, in combination with the rack piece D, moved by the plunger in its backward motion, and springs *d*, *d*, throwing said rack in place, the whole operated as specified."

No. 26,216. J. Whiteside and H. F. Crabill, of Fuller's Corners, Ind., for an "Improvement in cultivators."

"We claim, first, the arrangement and combination of the hinged curved shovel beams A, A, cross bar D, and gauging wheel F, substantially as and for the purpose set forth. Second, the curved draught beam B, arranged as described, in combination with the cross-bar D, handles G, and rod *h*, substantially in the manner and for the purpose specified."

No. 26,217. R. G. Wilkins, of Burns, N.Y., for an "Improved washing machine."

"I claim, first, the combination of an upper rotary rubber, with revolving slats, with two or more lower rotating rubbers with revolving slats, arranged substantially as described, for the purpose set forth. I also claim arranging the undulating surface of the slats in the upper rubber, so the projections come opposite to each other throughout when the same is combined with a lower rotating rubber, in which the projections of one slat are arranged opposite the depressions in the adjacent slats, and also, when the slats of the upper rubber are arranged, in relation to the slats of the lower rubber, as described, for the purpose herein set forth."

No. 26,218. John Williams, of Ashfield, Mass., for an "Improved washing machine."

"I claim the combination of straight fluted rollers, placed in the box of the machine in the form seen in the model, and two arms connected by a handle at one end, and attached by the other to the extremities of the frame, which holds the four rollers."

No. 26,219. Epenetus A. Willis, of Cold Spring, N.Y., for an "Improvement in floating batteries."

"I claim the combination of the central upright shaft, so applied that it may serve to anchor the battery, and that the battery may revolve around it, and a system of propellers, by which the battery may be either caused to revolve around the said central shaft while at anchor, or propelled from place to place when the said central shaft is elevated, substantially as herein described."

No. 26,220. Thos. W. Wilson and Lewis Raymond, of New York, N.Y., for an "Improved disengaging hook for liberating ship's boats."

"We claim the combination of a detachable hook (consisting of an open eye and pin combined with each other, substantially as herein set forth), with a pulley block for lowering a boat. We also claim the combination of a detachable hook with the davit, or object from which a boat is lowered, by means of a lanyard that is independent of the lowering tackle, in such manner that the combination, as a whole, operates to free the boat from the tackle, by the taughtening of the lanyard."

No. 26,221. Michael Werk, of Cincinnati, Ohio, for an "Improvement in lining tanks for fatty acids."

"I claim the lining of the tank or metal vessel used with wood and cement, in the manner set forth."

No. 26,222. C. M. Wilkins, of Madison, O., for "Improved cheese vats."

"I claim the arrangement of the valves N and O within the water chamber and vat, substantially as described."

No. 26,223. Sylvester P. Wheeler, of Bridgeport, Conn., assignor to Moses H. Wheeler and Co., of same place, for an "Improvement in manufacture of nitrate of silver crayons."

"I claim the manufacturing or forming of sticks of nitrate of silver or lunar caustic with one or more wires or ribbon of metal running through the same, to which the nitrate of silver or lunar caustic adheres, and still holds to the wire, wires, or ribbon (when used or otherwise) when broken."

No. 26,224. Harry Abbott, of North Huron, Ind., assignor to himself and Emerson Abbott, of same place, for an "Improvement in centrifugal water wheels."

"I claim the combination with a centrifugal water wheel A of a valve E, located and arranged within said wheel, so as to turn with it, and at the same time be adjustable while the wheel is in motion by means of the bail *c*, concentric rod H, and adjusting lever I, substantially as herein set forth."

No. 26,225. J. A. Althouse, of Philipstown, Ill., assignor to himself and F. W. Lechtenberger, of New Harmony, Ind., for an "Improvement in machines for raking and loading hay."

"I claim the combination of the stationary rack C, revolving rake I, and vibrating rake K, placed on a mounted frame, and arranged for joint operation, substantially as and for the purpose set forth."

No. 26,226. Gillett Bunting, of Liberty, Ind., assignor to himself and W. M. Jarrell, of same place, for an "Improved churn dasher."

"I claim producing the vibratory movement in the cylindrical churn dasher, by means of the combination of said arms with the crank motion of the driving wheel and intermediate connecting rod, when these are used in combination with the current breaker *k*, as set forth."

No. 26,227. James T. Coxell, of Brooklyn, N. Y., assignor to himself and Edward Jones, of same place, for an "Improved mangle."

"I claim, 1st, the arrangement of the rollers A, B, B, above the table, so that the fabric will be folded by the machine, substantially as herein shown and described. 2nd, the combination with the weighted levers L, of the lifting ropes F, or their equivalents, so that the downward pressure of the roller A may be released, and the roller lifted at the will of the operator, to allow such portions of the linen that have buttons, or other elevations, to pass through the machine uninjured, all as herein shown and described."

No. 26,228. H. E. Fickett and John W. Summers, of Glenn's Falls, N. Y., assignors to H. E. Fickett aforesaid, for an "Improved bed bottom."

"We claim the arrangement of the slats (B, B, B, B), with the springs (C, C, C, C), wires (D, D), central supports (E, E, E, E,) and cross brace F, arranged and operated in the manner described, and for the purpose specified."

No. 26,229. Horatio P. Gatchell, of Ravenna, O., assignor to E. J. Bates, of Bedford, O., for an "Improvement in coffee pots."

"I claim the forming of the walls of the cups B, C, and F, with male and female screws, as described, in combination with the perforated bottoms E and E^1, for the purpose of compressing the ground coffee, and extracting the strength of the drug, by displacement, in the manner specified."

No. 26,230. Wm. Darker, jr., of Philadelphia, Pa., assignor to himself and J. B. Thompson, of same place, for an "Improved mode of applying steam as a motor to city railroad cars."

"I claim, 1st, placing a steam engine and steam generator on the top of a city railroad car, when the engine, by suitable driving mechanism, is connected with the wheels of the car, to propel the same. 2nd, connecting the governor N, a throttle valve and brake, arranged substantially as shown, to operate as set forth. 3rd, the particular arrangement of the brake, formed of the strip Z, on wheel K, and actuated by the movement of the yoke Y, on its bent ends *e*, *e*, connected with the hand lever rod V, substantially as shown, so as to allow of the adjustment of the throttle valve by hand, independently of the automatic connection. 4th, the arrangement of the bar A^1, cam N, lever B^1, and rod *h*, connected with bar A^1, by the arm *g*, whereby the brake is operated automatically as set forth."

No. 26,231. Augustus J. Goffe and Demus Goffe, of Cohoes, N. Y., assignors to Downs and Company, of Seneca Falls, N. Y., for an "Improvement in knitting machines."

"We claim the rotary burr-presser M, having inclined planes *a* between the teeth, in combination with sliding needles, arranged and operating substantially in the manner and for the purpose shown and described. We also claim varying the eccentricity of the groove *f*, by means of the movable pulley *g*, spring *k*, adjusting screw *h*, and friction pulley *l*, substantially in the manner and for the purposes herein described."

No. 26,232. Liveras Hull, of Charlestown, Mass., assignor to himself and A. Wheeler, of Boston, Mass., for an "Improved method of making copal varnish."

"I claim my new manufacture of varnish, as composed of gum, copal, camphene, and alcohol, united in the proportions in a cool state, in a closed or air-tight vessel, substantially as specified."

No. 26,233. Henry W. Joslin, of Trenton, N. J., and A. K. Eaton, of New York, N. Y., assignors to the Joslin India Rubber Company, of New York, for an "Improvement in treatment of india rubber."

"We claim the treatment of the argilaceons red shale of New Jersey, or other similar geological localities, in combination with sulphur and caoutchouc, substantially in the manner and for the purpose herein described, for the manufacture of india rubber fabrics."

No. 26,234. James S. McCurdy, of Brooklyn, N.Y., assignor to J. M. Myers, of New York, N. Y., for an "Improvement in sewing machines."

"I claim the vibrating lever *g*, carrying the shuttle driver *h*, and provided with the spring *k*, to keep the shuttle driver to the raceway, the whole constructed and operating as and for the purposes specified."

No. 26,235. Henry M. Scott, of Portland, Me., assignor to himself and Saml. Adlam, of same place, for an "Improved bed bottom spring."

"I claim the employment of spring hooks A, and clamps D, substantially as described, for the purpose of attaching strips of webbing to the frame of a bedstead."

No. 26,236. Parmenus P. Parkhurst, of Princeton, Mass., for an "Improved ore separator."

"I claim the washing box or chamber *a*, constructed with the pipe *b*, entering near the bottom, to cause a whirl and circulation, as specified, and with the gate or overflow *c*, for the purposes, and as described and shown, and in combination with such washing box (*a*), I claim the receptacle or box *e*, and chamber *f*, to receive the metallic particles, when the gate *d* is raised, as set forth."

No. 26,237. John Thomas, of Indianapolis, Ind., assignor to himself and John M. Lord, of same place, for an "Improvement in piling railroad bars for re-rolling."

"I claim the tie No. 7, or its equivalent, when used for interlocking T-rail, or other old iron, and forming the pile of six rails shown in Figure 1, when constructed and arranged substantially as and for the purposes set forth."

No. 26,238. E. T. Weeks, of Franconia, N. H., assignor to S. H. Badcock, of same place, for an "Improved shoe peg machine."

"I claim the feeding device formed of bar L, to which the jaws are connected, operated by the screw K, ratchet S, and pawl T, lever U, and pitman V, substantially as and for the purpose set forth. I also claim, in connection with the riving or splitting knife, the gauge I, arranged as and for the purpose specified. I further claim the elastic or yielding bar Q, when attached to the arbor M, provided with cam *d*, and used in connection with the segment rack P, curved bars N, O, and jaws *k*, *l*, for the purpose set forth."

Re-issues.

Berresford Maria King, of New York, N. Y., executrix of Valentine Hall, deceased, late of said New York, for an "Improvement in apparatus for cooling liquids."—Patented 20th September, 1859.—Re-issued 22nd November, 1859.

"I claim, first, the employment or use of one or more receivers A, B, with or without the pump E, placed on a tank F, containing ice water, or water at a low temperature, and connected together and to the liquid supply pipe, substantially as and for the purpose set forth. Second, the employment or use of one or more receivers A, B, placed within a tank F, and connected with the barrel or cask H, by means of a siphon I, and with a pump E, within or at the outer side of the tank, for the purpose set forth. Third, the combining of a pump E with one or more receivers A, B, connected together and made to communicate with each other by siphons C, D, when said parts are submerged within a tank F, and made to communicate with the cask or barrel H by means of a siphon I, extending over the top of the tank, substantially as and for the purpose set forth."

Joseph W. Fawkes, of Christiana, Pa., for an "Improvement in machine for plowing."—Patented 26th January, 1858.—Re-issued 22nd November, 1859.

"I claim, 1st, the employment, in combination with the locomotive of a bilge-shaped driving wheel, substantially as set forth. 2d, I do not claim broadly the invention of movable spurs, but I claim the combination of the sliding spurs *k*, *k*, with the bilge-shaped driving wheel E, as herein shown and described. 3rd, the arrangement of the adjustable frame, plows, guage wheel, driving wheel engine, boiler and guiding wheels, as herein shown and described."

Septimus Norris, of Philadelphia, Pa., for an "Improvement in running gear of locomotive engines."—Patented 26th September, 1854.—Re-issued 2nd March, 1858.—Again re-issued 22nd November, 1859.

"I claim the combination of a free vibrating truck, with six or more driving wheels, when the front pair of drivers is placed in advance of the center of gravity of the entire engine, substantially as and for the purposes herein set forth."

William Oldman, of Buffalo, N. Y., for an "Improvement in steam boilers."—Patented 7th June, 1859.—Re-issued 22nd November, 1859.

"I claim, first, the central water space (F^{11}) in the combustion chamber (F), arranged in relation to the annular water space (F^{11}) and to the tubes (D), or their respective equivalents, substantially as within set forth. Second, placing the annular sheet G and horizontal plate I (which with the jacket form the smoke box M) outside of the water space W, and sufficiently above the bottom of the water space to allow the sediment to be conveniently removed from the water space, in communication with the described arrangement of the return tubes D, substantially as set forth."

Designs.

Elemir J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for carpet patterns."

"I claim the design or pattern for carpets, herein set forth."

ELEMIR J. NEY, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a "Design for carpet patterns."

"I claim the design or pattern for carpets, herein set forth."

ADDITIONAL IMPROVEMENT.

BENJAMIN F. WELLS, of Georgetown, D. C., for an "Improvement in naval architecture."—Patented 18th October, 1859.—Additional Improvement dated 22nd November, 1859.

"I claim making the lines of every section of a vessel, from the keel to the water line, arcs of circles, when said arcs have separate and independent centres determined, substantially in the manner described."

EXTENSIONS.

CHRISTIAN V. QUEEN, of Peeksville, N. Y., for an "Improvement in forges."—Patented 18th November, 1845.

"I claim the combination of the curved sliding shutters for enclosing the space over the fire, and the device for admitting a draught of air to keep up the combustion during the intervals in which the bellows are not employed, the same being effected for the purpose, and substantially in the manner made known."

JOSEPH E. ANDERSON, of Boston, Mass., for an "Improvement in planing machines."—Patented 21st November, 1859.

"I claim the manner herein set forth of forming, arranging, and combining with the revolving cutter wheel the revolving platform and the endless aprons between which the board to be planed is to be passed, by means of which arrangement and combination it is firmly held along the whole length of such apron, and carried regularly forward without duration."

GEORGE FABER, of Canton, Ohio, for a "Magnetic water gauge for boilers."—Patented 26th November, 1845.

"I claim the method herein described, or any other substantially the same, of indicating the rise and fall of water in a steam boiler or generator by means of an indicator outside thereof actuated by a magnet connected with a float or any other body within the boiler that rises and falls with the water and connected with the magnet, substantially as herein described."

LIST of SPECIFICATIONS published during the week ending 2nd December, 1859.

No.	Price.	SUBJECT-MATTER.
830	9*d.*	Machinery for the manufacture of looped fabrics.
960	3*d.*	Smelting copper.
1028	7*d.*	Spinning and doubling cotton, &c.
1029	3*d.*	Manufacture of sweet figged soft soap.
1030	4*d.*	Treatment of madder, &c.
1031	10*d.*	Machinery for the manufacture of healds.
1032	3*d.*	Leasing yarns.
1033	7*d.*	Pulley.
1034	3*d.*	Railway switches.
1035	6*d.*	Application of eyelet holes to boots and shoes.
1036	3*d.*	Producing solutions of sugar.
1037	1*s.* 3*d.*	Steering apparatus.
1038	8*d.*	Sewing machines.
1039	10*d.*	Obtaining motive power.
1040	4*d.*	Compounds for packing steam pipes and machinery.
1041	3*d.*	Agricultural implements, &c.
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On his petition, recorded in the Office of the Commissioners on the 18th day of October, 1859.

2486. To JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for the invention of "Improvements in the construction of forges."—A communication from abroad by Joseph H. Hyatt, of Peekskill, state of New York, United States of America.

On his petition, recorded in the office of the Commissioners on the 31st day of October, 1859.

2534. To HENRY GRAFTON, of Chancery Lane, in the county of Middlesex, Engineer, for the invention of "Improvements in bell and other signal apparatus to dwelling houses and other places, which improvements are also applicable to knobs or handles and fastenings of doors, and the like."

On his petition, recorded in the Office of the Commissioners on the 7th day of November, 1859.

2572. To RICHARD HOWSON, of the city of York, Engineer, for the invention of "Improvements in bells and gongs, and in their manufacture."

On his petition, recorded in the Office of the Commissioners on the 12th day of November, 1859.

2629. To JAMES WEBSTER, of Birmingham, in the county of Warwick, Engineer, for the invention of "An improvement or improvements in pressure and vacuum gauges."

2631. To WILLIAM WHITTLE, of Smethwick, near Birmingham, in the county of Warwick, Mechanical Engineer, for the invention of "Improvements in the manufacture of nails, and in machinery to be used in the said manufacture."

2633. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "An improved machine for moulding and pressing bricks."—A communication from abroad by John Williamson Crary, of Pensacola, county of Escambia, and state of Florida, United States of America.

2635. And to GEORGE WILLIAM LENOX, of Billiter Square, in the city of London, for the invention of "Improvements in the manufacture of ships blocks."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of November, 1859.

2639. To BENJAMIN AMSDEN, of St. Alban's, in the county of Hertfordshire, Straw Hat Manufacturer, for the invention of "Improvements in the manufacture of straw and other descriptions of hats and bonnets."

2641. To GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the city of London, for the invention of "Improvements in gloves."—A communication from abroad by Mr. Emmanuel Escoubé, of Toulouse, France.

2643. To THOMAS BARNABAS DAFT, of Tottenham, in the county of Middlesex, Civil Engineer, for the invention of "An improvement in coating sheathing metal."

2645. And to CHARLES GREY HILL, of Commerce Square, High Pavement, in the town and county of the town of Nottingham, Lace Manufacturer, for the invention of "An improved goffering machine, together with the apparatus connected therewith."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of November, 1859.

2647. To WILLIAM HENRY WARD, of the city of Auburn, in the county of Cayuga, and state of New York, one of the United States of North America, for the invention of "A system of signal flags."

2649. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "Improvements in the manufacture of a certain substance to supersede blasting powder."—A communication from abroad by Nicholas Rave the elder, of Curegham, near Brussels, in the kingdom of Belgium.

2651. To EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for the invention of "An improved chemical combination to supersede blasting powder."—A communication from abroad by Nicholas Rave the elder, of Curegham, near Brussels, in the kingdom of Belgium.

2652. To JOSIAH TIMMIS SMITH, of Birmingham, in the county of Warwick, Engineer, for the invention of "An improvement or improvements in heating, puddling, and other reverberatory furnaces used in the manufacture of iron."

2653. To BENJAMIN BAGSTER, of King's Road, Gray's Inn, London, in the county of Middlesex, Printer and Publisher, for the invention of "Improvements in means or apparatus for giving surface finish to paper, which improvements are applicable to copper-plate and other printing, as also to embossing."

2654. To THOMAS EASTMAN, of Southsea, in the county of Hants, Naval Instructor, for the invention of "Improved means of raising the blades of screws employed to propel ships, and apparatus for getting at such screws, and for performing other operations under water."

2655. To THOMAS LISTER, of Sheepbridge Iron Works, Chesterfield, in the county of Derby, Engineer, for the invention of "Improvements in the construction of sanatory privies and water-closets, part of which improvements is applicable as a tap for drawing off liquids."

2656. And to JOHN KNOWLES, junior, of Saint Helen's, in the county of Lancaster, Mining Engineer, for the invention of "An improved apparatus for the prevention of accidents in winding from mines, which apparatus is also applicable for other similar purposes."

On their several petitions, recorded in the office of the Commissioners on the 23rd day of November, 1859.

2657. To FRANCIS PRESTON, of the city of Manchester, Mechanical Engineer, and HENRY WILLIAM GARRETT, of Salford, in the county of Lancaster, Civil Engineer, for the invention of "Improvements in the construction of cartridges."

2658. To JOHN LANGFORD, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "Improvements in inkstands, and in combining with inkstands instruments for holding and damping stamps, labels, and other articles."

2659. To WILLIAM CHRISTOPHER MANIECE, of the city of Manchester, in the county of Lancaster, Salesman, for the invention of "Improvements in cop tubes used in machinery for spinning fibrous substances."

2660. To FREDERIC PRINCE, of Hove, in the county of Sussex, for the invention of "Improved apparatus for reducing the resistance of the atmosphere to the progress of railway trains."

2661. To JAMES FYFE, of Greenock, in the county of Renfrew, North Britain, Brass Founder, for the invention of "Improvements in apparatus for regulating and adjusting the flow and pressure of liquids."

2662. To WILLIAM EASSIE, of the firm of William Eassie and Sons, of High Orchard, in the city of Gloucester, Timber Merchants and Contractors, for the invention of "An improved joint for boarding and planking of all kinds."

2663. To ALFRED HUBART and VICTOR CANTILLON, of Liege, Belgium, Gentleman, for the invention of "Improvements in the manufacture of casks, barrels, and other like vessels of glass, and in machinery or apparatus employed therein."

2664. To WILLIAM SEPTIMUS LOSH, of Wreay Syke, in the county of Cumberland, Esquire, for the invention of "Improvements in the manufacture of paper, and in the preparation of a substance to be employed therein."

2665. And to WILLIAM SANGER COLLINS, junr., of Bristol, in the county of Somerset, and FREDERICK JAMES CHARD, of Warwick Street, Pimlico, in the county of Middlesex, for the invention of of "Improvements in apparatus for propelling vessels."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of November, 1859.

2667. To CHARLES SMITH, ISAAC SMITH, and JOHN SMITH, all of Hopwood, near Heywood, in the county of Lancaster, Manufacturers, for the invention of "Certain improvements in looms for weaving, and in apparatus for cutting the loops to form pile fabrics."

2668. To THOMAS CARR, of Bebington, in the county of Chester, Artificial Manure Manufacturer and Glue Boiler, for the invention of "Improvements in arrangements and mechanism for drying glue, moulded clay, sugar, white lead, and various other substances and articles of manufacture."

2669. To JAMES SIM, of the city and county of Aberdeen, North Britain, Manufacturing Chemist, for the invention of "Improvements in measuring and registering the flow or discharge of liquids."

2670. To ISAAC ALFRED READ, of Smethwick, near Birmingham, in the county of Warwick, Draughtsman, and WILLIAM RENNIE, of Birmingham aforesaid, Manufacturer, for the invention of "An improvement or improvements in connecting brooms with their sticks or handles."

2671. To HINGSTON LINDON, of Plymouth, in the county of Devon, for the invention of "Machinery or apparatus for raising and forcing fluids, which is also applicable for other useful purposes."

2672. To MATTHEW TILDESLEY, of Willenhall, in the county of Stafford, Lock Manufacturer, for the invention of "Improvements in locks and latches."—Partly a communication from abroad by John Bisset, a citizen of the United States of America, residing in New York.

2673. And to GEORGE EDMOND DONISTHORPE, of Leeds, for the invention of "Improvements in apparatus for hackling, dressing, and combing silk waste, and other fibres."

On their several petitions, recorded in the Office of the Commissioners on the 25th day of November, 1859.

2674. To AUGUSTUS STEPHEN LUKIN, of Swansea, in the county of Glamorgan, Civil Engineer, for the invention of "Improvements in apparatus for drawing window blinds."

2675. To FERDINAND SCHEITHAUER, of Pensing, in the empire of Austria, and No. 4, South Street, Finsbury, London, Gentleman, for the invention of "An improved machine for printing woollen and other fabrics."

2677. To CALEB BEDELLS, of Leicester, for the invention of "Improvements in the manufacture of shoes and boots, and in fabrics suitable for use in this manufacture."

2678. To WALKER MOSELEY, of 17 and 18, New Street, Covent Garden, in the county of Middlesex, for the invention of "Improvements in fountain pens."

2679. To MORITZ AUERBACH, of the city of London, Commission Merchant and Agent, for the invention of "Improved apparatus to be applied to omnibuses, stage-coaches, and other similar vehicles, to indicate the distance each passenger travels and the amount of his fare."—A communication from abroad by Eduard Schroder and Julius Amuel, both of Berlin, in the kingdom of Prussia.

2680. To THOMAS WATSON and GEORGE HEALEY, both of Rochdale, in the county of Lancaster, Silk Manufacturers, for the invention of "Certain improvements in the manufacture of silk velvets."

2681. To MORITZ AUERBACH, of the city of London, Commission Merchant and Agent, for the invention of "Improved apparatus, to be applied to cabs, hackney-carriages, and other similar vehicles, to indicate the number of persons carried, the distance travelled, and the amount of fares."—A communication from abroad by Eduard Schroder and Julius Amuel, both of Berlin, in the kingdom of Prussia.

2682. And to WILLIAM MACNAUGHT, of Manchester, in the county of Lancaster, Engineer, and JOHN LEIGH TAYLOR, of Bolton, in the same county, Cotton Spinner, for the invention of "An improved method of increasing the temperature of water for feeding steam-boilers or vessels for generating steam, and in apparatus connected therewith."

On their several petitions, recorded in the Office of the Commissioners on the 26th day of November, 1859.

2683. To JAMES EASTWOOD, of the Railway Iron Works, Litchurch, in the county of Derby, Engineer, for the invention of "Improvements in steam hammers, and in valves to be used therewith."

2684. To JAMES EASTWOOD, of the Railway Iron Works, Litchurch, in the county of Derby, Engineer, for the invention of "Improvements in lathes."

2685. To ENOCH TONEY, of the city and county of Perth, North Britain, Glass Manufacturer, for the invention of "Improvements in apparatus for insulating telegraphic wires or conductors."

2686. To ALEXANDER WILLIAM WILLIAMSON, of University College, and LOFTUS PERKINS, of Francis Street, Gray's Inn Road, Civil Engineer, for the invention of "Improvements in machinery for propelling vessels."

2687. To THOMAS LUCK, of Spalding, in the county of Lincoln, for the invention of "Improvements in apparatus for removing straw from thrashing machines."

2688. To PAUL RAPSEY HODGE, of No. 16, Chalcot Crescent, Primrose Hill, in the county of Middlesex, Civil Engineer, for the invention of "The treatment and use of a new material in making of paper or other compounds of vegetable pulp."

2689. To EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the county of Essex, Agricultural Implement Maker, for the invention of "Improvements in machinery for cutting vegetable substances."

2690. To EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the county of Essex, Agricultural Implement Maker, for the invention of "Improvements in apparatus for crushing or grinding grain or seeds."

2691. To JOSEPH BOWER, of Hunslet, in the county of York, Chemist, for the invention of "An improved method of preparing clay for the manufacture of crucibles, pots, and earthenware."

2692. To CHARLES SELLS, of Stockwell, in the county of Surrey, Engineer, for the invention of "Improvements in steam engines."

2693. To RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "An improved poultry wagon."—A communication from abroad by Parfait Giot, of Paris.

2694. And to RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in the preparation of red coloring matters or dyes."—A communication from abroad by Messrs. Renard Frères, of Lyons.

On their several petitions, recorded in the Office of the Commissioners on the 28th day of November, 1859.

2695. To FRANCIS HERBERT WENHAM, of Brixton, in the county of Surrey, Engineer, for the invention of "Certain improvements in steam engines."

2696. To HENRY SHARPE, of No. 26, Broad Street Buildings, in the city of London, Merchant, for the invention of "Improvement in the mode of preparing wool for the purpose of carding or combing it with a view to it's being afterwards wove into thread."—A communication from abroad by Hyppolite Dubeux, residing at Lisbon, in Portugal, Merchant.

2697. To James King, of Rochdale, in the county of Lancaster, Cotton Spinner, and John Sutcliffe, of the same place, Overlooker, for the invention of "Certain improvements in and applicable to mules for spinning."

2698. To Henry Oliver Robinson, of 16, Park Street, in the city of Westminster, Civil and Mechanical Engineer, for the invention of "Improvements in Machinery and apparatus for the manufacture of sugar."

2699. To John Barker Berger, of Upper John Street, Fitzroy Square, in the county of Middlesex, Master Mariner, for the invention of "An improved mode of and apparatus for facilitating the calculations required for navigating ships or vessels."

2700. To Leon Numa Dejean, of Paris, in the French empire, Civil Engineer, for the invention of "Improvements in hydraulic motive power."

2701. To Charles Colwell, of Belvidere Place, Southwark, London, Gentleman, for the invention of "An improved means of propelling sea going vessels without the use of either paddle wheel or screw propeller now adopted."

2702. To Thomas Richardson, of Newcastle-on-Tyne, for the invention of "Improvements in the manufacture of certain compounds of soda and potash."

2703. And to Manuel Leopold Jonas Lavater, of the Strand, India Rubber Manufacturer, for the invention of "Improvements in vulcanized india rubber bands."

On their several petitions, recorded in the Office of the Commissioners on the 29th day of November, 1859.

2705. To Thomas Fitton, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "Improvements in the slide valves of steam engines."

2707. To Samuel Mortimer, of Bradford, in the county of York, Machine Maker, and George Swaine, of the same place, Overlooker, for the invention of "Improvements in machinery or apparatus for spinning and doubling wool or other fibrous substances."

2709. To Joseph Michael Wilson, of the city of Manchester, in the county of Lancaster, Manufacturer, for the invention of "Improvements in finishing woven fabrics, called Arabian stripes or scarfs."

2711. To Jean Baptiste Teil, of Bordeaux, France, Umbrella Maker, for the invention of "Improvements in the construction of umbrellas and parasols."

2713. And to George Jordan Firmin, of the Atlas Chemical Works, Borough Road, Southwark, in the county of Surrey, for the invention of "Improvements in the manufacture of tartaric and citric acids, and certain salts in connection therewith."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of November, 1859.

2717. To Charles Antoine Fournier, of No. 60, Boulevart de Strasbourg, Paris, in the empire of France, Treasurer Agent to the Ministery of War, for the invention of "A process and apparatuses intended to find out the escapes of lighting gas from the conveying pipes, and to determine the precise leaking places of the said pipes."

2719. To Thomas Silver, of Philadelphia, in the state of Pennsylvania, United States of North America, Gentleman, for the invention of "Improvements in apparatus for governing or regulating the speed of steam and other engines."

2721. To Thomas Till, of Birmingham Heath, in the county of Warwick, Engineer and Machinist, for the invention of "Improvements in machinery for the manufacture of horse-nails and other wrought-nails."

2723. To John Paton, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "Improvements in valves."

2725. And to John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for the invention of "Improvements in apparatus for preserving and cooking food."—A communication from abroad by John McCormick, of Madison, Indiana, and Edward Pincus, of Philadelphia, both in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 1st day of December, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given that the petition of

2731. George Frederick Smith, of No. 15, Golden Square, in the county of Middlesex, Gentleman, praying for Letters Patent for the invention of "Improvements in smelting and purifying iron and other ores,"—a communication from abroad by Robert William Sievier, late of Upper Holloway, in the county of Middlesex, but now residing at Hamburgh,—was deposited and recorded in the Office of the Commissioners on the 2nd day of December, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And notice is also further given that the petition of

2740. James Anderson and James Bradshaw, Bakers, Liverpool, Lancashire, praying for Letters Patent for the invention of "Improvements in the construction of the furnaces of bakers' ovens for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces," was deposited and recorded in the Office of the Commissioners on the 3rd day of December, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

9th December, 1859.

1414. William Donbavand, of the city of Manchester, in the county of Lancaster, Scale Beam and Weighing Machine Manufacturer, and David Crichton, of the same place, Machinist, for an invention of "Improvements in looms for weaving."—Dated 11th June, 1859.

1417. Thomas Frederick Henley, of Denbigh Street, Pimlico, in the county of Middlesex, for an invention of "Improvements in obtaining alcohol or spirit from rice and other grain, and in apparatus for that purpose."—Dated 11th June, 1859.

1433. John Cowan, of the firm of L. Cowan and Sons, of Barnes, in the county of Surrey, Soap Manufacturers, for an invention of "An improved soap."—Dated 14th June, 1859.

1442. Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A new siphon meter for liquids."—A communication from abroad by A. Grenet, of No. 10, Rue Mogador, Paris, in the empire of France.—Dated 16th June, 1859.

1444. Leon Barroux, of No. 10, Rue Mogador Paris, in the empire of France, for an invention of "A new system of rail-road, supported on iron soles, with or without wood being used."—Dated 16th June, 1859.

1458. Henri Evette, of Lisieux, department of the Calvados, in the empire of France, Manufacturer, for an invention of "A new system of bedding."—Dated 17th June, 1859.

1534. Daniel Joseph Fleetwood, of Birmingham, in the county of Warwick, Copper Agent, for an invention of "An improvement or improvements in shaping metals."—Dated 27th June, 1859.

2015. Walter Neilson, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "Improvements in steam hammers."—Dated 3rd September, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 7th December*, 1859, *inclusive.*)

5th December.

2892. Heth Ogden, of Salford, in the county of Lancaster, Engineer, and Henry Hibbert, of the same place, Engineer, for an invention of "Improvements applicable to colliery and locomotive engines, for the purpose of arresting or retarding their motion at required intervals, and of indicating the amount of work done in relation to such intervals."—Dated 5th December, 1856.

2902. John Leslie, of Conduit Street, Regent Street, in the county of Middlesex, for an invention of "An improvement in stoves and fireplaces."—Dated 6th December, 1856.

7th December.

2905. Richard Eaton, of 2, Sussex Terrace, New Road, Battersea, Engineer, for an invention of "An improvement in the manufacture of springs when india rubber is used."—Dated 8th December, 1856.

2950. John Turner Wright, of Birmingham, in the county of Warwick, Manufacturer, and Edwin Payton Wright, of Birmingham aforesaid, Manufacturer, for an invention of "A new or improved manufacture of ropes, cords, lines, twines, and mill bandings."—Dated 12th December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 5th December*, 1859.)

1013. George Collier, of Halifax, in the county of York, for an invention of "Improvements in the manufacture of carpets and other fabrics."—Dated 9th December, 1852.

Erratum in Journal of 6th December.

Page 1392. In List of Specifications, &c., after No. 830, for "960" read "962."

DELIVERY OF LETTERS.—For the Great Seal Patent Office the initials are W. C., the District being the Western Central. In the direction of a Letter, these initials should be legibly written in a separate line, and should in all cases end the address, thus:—

The Commissioners of Patents,
Great Seal Patent Office,
25, Southampton Buildings,
London,
W.C.

FOREIGN PATENTS.



AUSTRIA.*

LIST of PATENTS which were Delivered, Prolonged, or became Void during the Month of September, 1859.†

(*Communicated by the Austrian Government.*)

1. PATENTS DELIVERED.

1. LOUIS WELLS BROADWELL, of New Orleans, represented by Friedrich Häffner, of Vienna, for "Breech-loading fire-arms."—1 year.—(Secret.)—Dated 8th September, 1859.

2. JOHANN CZERMAK, of Währing, near Vienna, for "Machines for making his Patent wicks for torches.—1 year.—(Secret.)—Dated 14th September, 1859.

3. FRANZ MAYR, of Leoben, for "Improvements in the manufacture of grooved horse shoes from a peculiar kind of rod-iron, without heating."—5 years.—(Public.)—Dated 15th September, 1859.

4. JOHANN FINSTER, of Vienna, for "A composition of caoutchouc, ether and spirit of turpentine, for rendering felt and silk hats elastic."—2nd year.—(Secret.)—Dated 16th September, 1859.

5. SIGISMUND LEONI, of London, represented by Georg Märkl, Vienna, for "A peculiar process for the manufacture of various objects from tallow and other silicates."—1 year.—(Secret.)—Dated 16th September, 1859.—(English Patent, 24th November, 1858.)

6. NATHAN PINKERFELD and SAMUEL FARKAS, of Pesth, for "Rendering foot coverings waterproof without altering their shape."—1 year.—(Secret.)—Dated 16th September, 1859.

7. JOHN HENRY JOHNSON, of London, represented by Eduard Schmidt, of Vienna, for "Improvements in the manufacture of boots and shoes, and in machines employed thereat."—3 years.—(Secret.)—Dated 16th September, 1859.

8. ALFRED LENZ, of Vienna, for "Improvements in thrashing machines, whereby the corn is cleaned by means of a ventilator."—2 years.—(Public.)—Dated 16th September, 1859.

9. WENZEL WORECHOWSKY, of Carolinenthal, near Prague, for "An economical kitchen range, closed hermetically."—1 year.—(Secret.)—Dated 16th September, 1859.

10. NATHAN PINKERFELD and SAMUEL FARKAS, of Pesth, for "Improvements in fitting ladies' dresses."—1 year.—(Secret.)—Dated 16th September, 1859.

11. ROSTHORN, Brothers, of Oed, Lower Austria, for "A peculiar self-acting machine for polishing sheet-iron in a transversal direction."—5 years.—(Secret.)—Dated 16th September, 1859.

12. NATHAN ZILZER, of Waitzen, Hungary, for "A peculiar composition for improving and strengthening sewing materials."—1 year.—(Secret.)—Dated 16th September, 1859.

13. WILHELM REISER, of Constantinople, represented by Joseph Hatos, of Vienna, for "Superseding one of the two Morse's telegraphs used at each station of translation."—5 years.—(Secret.)—Dated 16th September, 1859.

14. AUGUST PETRI and JULIUS SCHAB, of Vienna, for "A peculiar construction of garret windows."—1 year.—(Secret.)—Dated 16th September, 1859.

15. CARL LÖWINGER, of Pesth, for "Improvements in obtaining upholsterers' work by means of peculiar nets."—1 year.—(Secret.)—Dated 16th September, 1859.

16. S. BRANDEIS-WEIKERSHEIM, of Vienna, for "Manufacture of a substance from oxydated carbon of hydrogen for lubricating railway carriages, machines, &c."—1 year.—(Secret.)—Dated 16th September, 1859.

17. MORIZ WEBER, of Vienna, for "A reduction valve with a variable piston valve for reducing the normal expansion of steam to any per-centage, and for obtaining a considerable outlet of steam by the least lift of the valve piston."—1 year.—(Public.)—Dated 16th September, 1859.

18. DESIDERIUS MARCHAL, of Brussels, represented by Georg Märkl, Vienna, for "A peculiar apparatus for washing ores, clay, earth, and solid substances in general."—3 years.—(Public.)—Dated 18th September, 1859.

19. JOHANN ZEIDLER, jun., of Schönlinde, Bohemia, for "A peculiar means of manufacturing wooden pegs for shoes."—5 years.—(Secret.)—Dated 18th September, 1859,

20. ALPHONS GUEYTON, of Paris, represented by Georg Märkl, Vienna, for "A peculiar process for enamelling and ornamenting articles of jewellery, fancy articles, and artistic and other objects."—1 year.—(Public.)—Dated 18th September, 1859.

21. SCHÄFFER and BUDENBERG, of Buckan, near Magdeburg, represented by O. E. Hörmer, of Vienna, for "An alarum of steam boilers."—2 years.—(Public.)—Dated 18th September, 1859.—(Saxon Patent, 7th July, 1859.)

22. SCHÄFFER and BUDENBERG, of Buckau, near Magdeburg, represented by O. E. Hörmer, Vienna, for "A peculiar water-gauge of steam boilers whereby only one opening for steam and water is required, and which may be worked by means of a single cock."—2 years.—(Public.)—Dated 18th September, 1859.—(Saxon Patent, 7th July, 1859.)

* For the Austrian Patent Law, see No. 291 of this Journal.

† In the case of inventions patented in other states as well as in Austria, the Specifications (whether described as "public" or not) may in most cases be consulted, or translations of them be had at the Library of the Commissioners' Office.

23. Schäffer and Budenberg, of Buchan, near Magdeburg, represented by O. E. Hörmer, Vienna, for "A peculiar water-gauge of steam boilers for feeding the same steadily."—2 years.—(Public.)—Dated 18th September, 1859.—(Saxon Patent, 7th July, 1859.)

24. Friedrich Paget, of Vienna, for "Improvements in tents and similar shelters."—1 year.—(Secret.)—Dated 18th September, 1859.

25. Andreas Mattyasovszky, of Vienna, for "A peculiar construction of folding camp-beds."—1 year.—(Public.)—Dated 21st September, 1859.

26. Johann Aich, of Venice, for "A metal composition being a substitute for brass, and in many cases for copper and bronze."—1 year.—(Secret.)—Dated 21st September, 1859.

27. Friedrich Paget, of Vienna, for "Obtaining a mechanical power."—2 years.—(Secret.)—Dated 21st September, 1859.

28. Bernhard Dietsch, of Vienna, for "Improvements in cutting and making gloves without lateral seams."—1 year.—(Public.)—Dated 21st September, 1859.

29. Friedrich Hermann Wilke, of Chemnitz, Saxony, represented by Jacob Fechter, Vienna, for "A peculiar weaving machine."—1 year.—(Public.)—Dated 21st September, 1859.

30. Carl Fink, Johann Heiss, and Daniel Ludosski, of Vienna, for "Improvements in vertical mills, whereby the friction and grinding surfaces are made to revolve with a unifom speed, the grinding beginning from the centre."—1 year.—(Secret.)—Dated 21st September, 1859.

31. Johann Kuhlmann, of Vienna, for "Improvments in the manufacture of silk and felt hats."—1 year.—(Public.)—Dated 18th September, 1859.

32. Carl August Specker, of Vienna, for "A machine for cutting, forging, punching, and holing nuts of iron, or any other metal."—3 years.—(Secret.)—Dated 21st September, 1859.

33. Gabriel J. J. Laury, of Paris, represented by Cornelius Kasper, Vienna, for "A case for spectacles and other similar objects applicable to dresses."—1 year.—(Secret)—Dated 21st September, 1859.

34. Anton Weisse and Arnold Niederer, of Prague, for "A centrifugal bolter and corn mill."—1 year.—(Secret.)—Dated 25th September, 1859.

35. Jacob Mellinger and Joseph Engel, of Pesth, for "Improvements in the manufacture of flaps and collars of men's dresses."—1 year.—(Secret.)—Dated 25th September, 1859.

36. Barbara Minich, of Rohr, Lower Austria, for "An apparatus which may be used as a water and steam motor."—1 year.—(Secret.)—Dated 27th September, 1859.

37. Hirsch Labin, of Jassy, represented by Lipa Heller, Vienna, for "A mechanical apparatus for musical instruments and telegraphs."—1 year.—(Secret.)—Dated 27th September, 1859.

38. Ignaz Stöber, of Vienna, for "Covers of sheet iron with grates, or of tinned copper, for protecting food from insects, and from running over whilst boiling."—1 year.—(Secret.)—Dated 27th September, 1859.

39. Johann Mathias Forster, of Dresden, represented by Dr. Max von Schickh, Vienna, for "Improvements in his patent mechanical writing desk."—1 year.—(Public.)—Dated 29th September, 1859.

40. Jacob Löwy, of Pesth, for "Improvements in renovating old and damaged furniture by means of insoluble glue."—2 years.—(Secret.)—Dated 29th September, 1859.

41. Heinrich Seifert, of Vienna, for "Improvements in the cushions of billiard tables."—1 year.—(Secret.)—Dated 29th September, 1859.

42. Franz Heine, of Prague, for "Manufacture of so-called 'Schemnitz clay smoking-pipes from porcelain."—1 year.—(Public.)—Dated 29th September, 1859.

43. Alois Quenzer, sen. and jun., for "Manufacture of foot-coverings for invalids from woollen felt."—1 year.—(Public.)—Dated 29th September, 1859.

44. Jacob Waldstein, of Vienna, for "A double telescope, which may be converted into a field-telescope and microscope."—1 year.—(Public.)—Dated 30th September, 1859.

45. Wilhelm Pollak, of Vienna, for "Rectifying common olive oil so as to be employed for technical purposes."—1 year.—(Secret.)—Dated 30th September, 1859.

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2. Patents Prolonged.

1. Thomas James Sloan and Jopy, brothers, and Co., for "Improvements in the manufacture of wooden and other screws."—2nd year.—(Scret.)—Dated 18th August, 1858.

2. Johann Georg Popp, for "So-called anatherin tooth paste."—2nd year.—(Secret.)—Dated 9th August, 1858.

3. Anton Heinz, for "Obtaining enamelled kitchen vessels from single pieces of sheet iron without rivets and hammered down edges."—3rd year.—(Secret.)—Dated 19th July, 1857.

4. Friedrich Hilbert, for "Improvements in double action force and lift pumps."—2nd year.—(Secret.)—Dated 20th October, 1858.

5. James M. Ross, for "Improvements in the construction of cast-iron wheels of railway carriages."—2nd year.—(Public.)—Dated 23rd August, 1858.

6. Michael Winkler, for "Improvements in oil-prints of sign boards."—7th year.—(Secret.)—Dated 22nd September, 1853.

7. Laurenz Mayer, for "Improvements in his Patent inodorous closets."—6th year.—(Public.)—Dated 29th August, 1854.

8. Franz Bürckholdt, for "An apparatus for distillation."—2nd year.—(Public.)—Dated 13th September, 1858.

9. Johann Baptist Aklin, for "A mechanical apparatus for substituting paper for pasteboard in jacquard looms."—5th year.—(Public.)—Dated 18th September, 1855.

10. Anton Pius de Rigl, (Stephan Szabo, assignee), for "Peculiar double windows with double panes of glass."—3rd year.—(Public.)—Dated 25th August, 1857.

11. Carl Schuh (Ludwig Faber, assignee), for "Apparatus for obtaining hand reliefs and plastic works, by means of gutta percha forms."—8th year.—(Secret.)—Dated 30th August, 1852.

12. Ferdinand Schwenk, for "A rolling screw and spiral."—2nd year.—(Public.)—Dated 23rd August, 1858.

13. Carl Engelbrecht (Gustav Hoyer, assignee), for "A mechanical salt-licking stone for animals."—2nd year.—(Secret.)—Dated 30th August, 1858.

14. Meier Rotmüller, for "Improvements in the manufacture of men's dresses."—2nd and 3rd year.—(Secret.)—Dated 23rd September, 1858.

15. Wilhelm Schmid and Franz Arend, for "A corn-cutting machine."—3rd year.—(Secret.)—Dated 1st August, 1858.

16. Anton Olbrich and Florian Bienert, for "A machine for the manufacture of iron nails by the cold process."—8th year.—(Secret.)—Dated 30th August, 1852.

17. Ignaz Steinreich and Ignaz Steinberger, for "Improvements in ladies garments."—2nd year.—(Secret.)—Dated 15th September, 1858.

18. Johann Sherer and Joh. Lorenz, for "Improvements in the construction of looms for making velvet ribbons."—6th and 7th years.—(Secret.)—Dated 14th September, 1854.

19. Lorenz Beer, for "Improvements in moveable economical kitchen ranges."—5th year.—(Secret.)—Dated 5th September, 1855.

20. Gabriel Franz Ianauscheck, for "Improvements in steam-saws for sawing boards."—4th year.—(Secret.)—Dated 13th October, 1856.

21. Eduard Schmidt and Friedrich Paget, for "Improvements in railway-crossings."—3rd year.—(Secret.)—Dated 3rd September, 1857.

22. Elias Weiszkoph (Ignaz Schuck, assignee), for "Improvements in the manufacture of lighting stones."—6th year.—(Secret.)—Dated 9th December, 1854.

23. Michael Holzer and Helene Zörrer, for "A metalline cleaning powder."—3rd year.—(Secret.)—Dated 1st September, 1857.

24. Friedrich Schäfer, for "A peculiar means of propelling vessels."—2nd year.—(Secret.)—Dated 11th September, 1858.

25. Max Krauss, for "Improvements in the manufacture of cloaks and mantlets of ladies."—2nd year.—(Public.)—Dated 11th September, 1858.

26. Friedrich Paget, for "Improvements in axle boxes of railway carriages, locomotives, and tenders."—8th year.—(Public.)—Dated 16th September, 1852.

27. Johann Peter Klein and Wilhelm Zipser, for "A machine for teaseling cloth."—4th year.—(Secret.)—Dated 18th October, 1856.

28. Eduard Beckmann-Olofson, for "A diamond colour for protecting articles from rust."—3rd year.—(Secret.)—Dated 19th September, 1857.

29. Alois Baumann, for "A powder for destroying flies."—3rd year.—(Secret.)—Dated 19th September, 1857.

30. Johann Peter Klein and Wilhelm Zipser, for "Improvements in machines for teaseling cloth."—3rd year.—(Secret.)—Dated 3rd October, 1857.

31. Salomon Wallerstein, for "A machine for cutting cloth."—2nd year.—(Secret.)—Dated 21st September, 1858.

32. Robert Wilhelm Thode, for "Machines for reducing fibrous substances into paper pulp."—3rd year.—(Public.)—Dated 9th October, 1858.

33. Bontin, Poinsot, and Company, and Eduard Victor Fresson, for "A moveable furnace for charring wood and other fuel."—2nd year.—(Public.)—Dated 13th November, 1858.

34. Arnauld Banco, for "Improvements in machines for reducing beetroot for sugar works."—2nd year.—(Secret.)—Dated 11th December, 1858.

35. Nathan Schönwald (Samuel Weiss, assignee), for "Improvements in the manufacture of tallow candles."—2nd year.—(Secret.)—Dated 17th September, 1858.

36. Ignaz Michael Firnstahl, for "An eccentric double printing machine for neck kerchiefs."—4th year.—(Secret.)—Dated 18th September, 1856.

37. Carl and Caroline Reisser, for "Improvements in paper for destroying flies and insects without using arsenic."—2nd year.—(Secret.)—Dated 22nd September, 1858.

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3. Patents which have become Void.*

1. Ignaz Sturm and Carl Toot, for "A mode of fastening orders, buttons, clasps, &c."—Dated 24th September, 1857; disclaimed 6th May, 1859.

2. Jacob Franz Heinrich Hemberger, for "Improvements in revolving fire-arms."—Dated 3rd July, 1854; expired 3rd July, 1859.

3. Jacob Franz Heinrich Hemberger, for "Improvements in machines for heckling flax, hemp, china-grass, and other fibrous substances."—Dated 22nd July, 1854; expired 22nd July, 1859.

4. Jacob Franz Heinrich Hemberger, for "Improvements in applying caoutchouc and gutta-percha."—Dated 3rd September, 1852; annulled 5th November, 1852, because of its not having been worked.

5. Jacob Franz Heinrich Hemberger, for "Improvements in machines for combing flax, wool, and other fibrous substances."—Dated 31st October, 1854; annulled 3rd September, 1859, because of its not having been worked.

6. Jacob Franz Heinrich Hemberger, for "Improvements in machines for spinning flax, hemp, &c."—Dated 30th November, 1854; annulled 3rd September, 1859, because of its not having been worked.

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* The Specifications of these Patents may be consulted in the original language, or translations be had at the Public Free Library.

7. Jacob Franz Heinrich Hemberger, for "Improvements in the construction of fire-arms."—Dated 6th August, 1855; annulled 3rd September, 1859, because of its not having been worked.

8. Jacob Franz Heinrich Hemberger, for "Improvements in machines for combing fibrous substances."—Dated 4th September, 1855; annulled 3rd September, 1859, because of its not having been worked.

9. Carl Kauffmann, for "A peculiar construction of cylinders of solar-oil gas lamps."—Dated 7th November, 1851; disclaimed 9th August, 1859.

10. Ciprien Marie Jessié du Motay and Jean Jacques Fontaine, for "A process for "Refining iron in refining and puddling furnaces."—Dated 29th April, 1856; expired 29th April, 1859.

11. Laurenz Schuler, for "An apparatus for preventing the heating of the wheels of locomotives, and for superseding lubrication, if required."—Dated 14th March, 1857; expired 14th March, 1859.

12. Jean Fabien Magnin, for "Apparatus for boring the soil."—Dated 14th March, 1857; expired 14th March, 1859.

13. Anton Adrian Paillete, for "Improvements in the manufacture of iron and steel."—Dated 19th July, 1857; expired 19th July, 1859.

14. Anton Adrian Paillete, for "Improvements in the manufacture of iron according to the Catalonian method."—Dated 19th July, 1857; expired 19th July, 1859.

15. Saurenz Cordier, for "A safety apparatus for closing boxes, chests, &c."—Dated 13th March, 1858; expired 13th March, 1859.

16. Peter Alphons de Brussant, for "A peculiar rotary apparatus, called 'Circonvertor.'"—Dated 16th March, 1858; expired 16th March, 1859.

17. Peter Alphons de Brussant, for "A weighing machine with a dial for weighing-bridges and steelyards, manometers, &c."—Dated 23rd May, 1858; expired 23rd May, 1859.

18. Alphons Prestrel, for "An apparatus for washing sand mixed with precious metals."—Dated 26th June, 1858; expired 26th June, 1859.

19. Heinrich Adolph Joly and Peter Hieronymus Desiderius Petit, for "An apparatus for stopping fiery horses."—Dated 8th July, 1858; expired 8th July, 1859.

20. Louis Durand, for "A steam generator with a continuous circulation of water and a large heating surface for locomotives, steam-boats, and industrial purposes."—Dated 8th July, 1858; expired 8th July, 1859.

21. Carl Paul Gabriel Sagey, for "Improvements in the treatment of turf, and in the carbon of hydrogen contained therein."—Dated 18th July, 1858; expired 18th July, 1859.

22. Friedrich Paget, for "Improvements in steam engines."—Dated 31st July, 1856; expired 31st July, 1859.

23. Friedrich Paget, for "Obtaining alum and clay cakes from certain aluminites (oxide of aluminium)."—Dated 11th August, 1856; expired 11th August, 1859.

24. Heinrich Knöster, for "Improvements in xylographic colour-printing."—Dated 26th June, 1858; expired 26th June, 1859.

25. Dr. Rudolph Böttger, for "Indelible ink."—Dated 29th November, 1856; disclaimed 16th August, 1859.

26. Leopold Alexander Griff, for "Tooth-powder."—Dated 30th April, 1849; expired 30th April, 1859.

27. Joseph Heinzen, for "Liquid orchal for printing and dyeing."—Dated 18th April, 1851; expired 18th April, 1859.

28. Nathan Ignaz Szmik, for "A continuous apparatus for purifying water."—Dated 15th March, 1853; expired 15th March, 1859.

29. Anton Ehmann, for "Improvements in the construction of stoves and kitchen-ranges."—Dated 7th March, 1854; expired 7th March, 1859.

30. Wilhelm Schulze, for "Manufacture of hydraulic cement from substances not used thereto till now."—Dated 7th March, 1854; expired 7th March, 1859.

31. Joseph Homolatsch, for "Manufacture of a steady liquid for photographic glass-matrices, and tincture belonging thereto."—Dated 9th March, 1854; expired 9th March, 1859.

32. Franz Flurschütz, for "So-called 'Zephir-carriages."—Dated 11th March, 1854; expired 11th March, 1859.

33. Carl and Emil Preller, for "A complete machine for combing wool, silk, cotton, or other fibrous substances."—Dated 16th March, 1854; expired 16th March, 1859.

34. Franz Leeb, for "Improvements in stoves."—Dated 24th March, 1854; expired 24th March, 1859.

35. Sellier and Bellot, for "Applying zinc to the manufacture of capsules."—Dated 2nd March, 1855; expired, 2nd March, 1859.

36. Carl Ferdinand Mally, for "Manufacture of manure."—Dated 5th March, 1855; expired 5th March, 1859.

37. Gotthold Reich, for "A process for cooling the spodium employed in filtering the juice of sugar."—Dated 5th March, 1855; expired 5th March, 1859.

38. Friedrich Loeeffler, for "Improvements in saddles."—Dated 9th March, 1855; expired 9th March, 1859.

39. Johann George Popp, for "Improvements in iron fire-proof and safety chests."—Dated 16th March, 1855; expired 16th March, 1859.

40. Emanuel Feigl and David Winternitz, for "Improvements in the manufacture of washing soap."—Dated 14th March, 1855; expired 14th March, 1859.

41. Wilhelm Smyers-Viliquet, for "A new system of gas lighting, applicable to railways, vessels, carriages, houses, &c."—Dated 27th March, 1855; expired 27th March, 1859.

42. Gabriel Barthe, for "Improvements in force and lift pumps."—Dated 29th March, 1855; expired 29th March, 1859.

43. Franziska Richard, for "Improvements in playing cards."—Dated 4th March, 1856; expired 4th March, 1859.

44. Eduard Skallitzky, for "Obtaining letters for inscriptions by means of cut out patterns."—Dated 5th March, 1856; expired 5th March, 1859.

45. Etienne Abram Maccaud, for "An apparatus for finding out gas escapes."—Dated 27th March, 1856; expired 27th March, 1859.

46. Gustav Fehr, for "A vacuum apparatus for obtaining a thick corn extract, applicable to various technical purposes."—Dated 4th March, 1857; expired 4th March, 1859.

47. Ferdinand Machts, for "Improvements in J. Snidar's machine for cutting wood screws."—Dated 9th March, 1857; expired 9th March, 1859.

48. Andreas Gyürky, for "Improvements in his apparatus for propelling and steering vessels, as patented 28th August, 1855."—Dated 9th March, 1857; expired 9th March, 1859.

49. Wenzel Seykora, for "A dyeing apparatus."—Dated 10th March, 1857; expired 10th March, 1859.

50. Joseph Nicora, for "Improvements in stoves."—Dated 14th March, 1857; expired 14th March, 1859.

51. Carl Lauth, for "Improvements in dyeing and printing fibrous substances, tissues, and fabrics."—Dated 14th March, 1857; expired 14th March, 1859.

52. Valerian Kotodziejsky, for "Improvements in the construction of double cylinder expansion and condensing steam engines."—Dated 15th March, 1857; expired 15th March, 1859.

53. Franz Schreder, for "Improvements in tiles."—Dated 25th March, 1857; expired 25th March, 1859.

54. Franz Schuler, for "Chemical apparatus for obtaining lighting gas."—Dated 11th March, 1858; expired 11th March, 1859.

55. Sante Meloncini Fevela, for "Improvements in double-action force and lift pumps."—Dated 13th March, 1858; expired 13th March, 1859.

56. Thomas Holt, for "Improvements in cocks for liquids."—Dated 15th March, 1858; expired 15th March, 1859.

57. Leopold Knopp and Leopold Veith, for "Improvements in casting inscription plates of a composition of zinc."—Dated 15th March, 1858; expired 15th March, 1859.

58. Carl Eugen Lecointe, for "Using envelopes letter paper for advertizing."—Dated 15th March, 1858; expired 15th March, 1859.

59. Friedrich Max Bode, for "A peculiar mode of coupling the axles of revolving frames of locomotives or the axles of tenders with the driving axle of engines."—Dated 17th March, 1858; expired 17th March, 1859.

60. Rudolph Scheller, for "Manufacture of coal bricks from coal dust."—Dated 18th March, 1858; expired 18th March, 1859.

61. Joseph Ferstl, for "Manufacture of chemically pure acetic acid from pure wood vinegar, applicable to all technical and scientific purposes, and also to the manufacture of vinegar'"—Dated 29th March, 1858; expired 29th March, 1859.

62. Samuel Roth, for "A peculiar machine for obtaining wooden pegs for shoes."—Dated 29th March, 1858; expired 29th March, 1859.

63. Johann Rattich, for "Machines for making wooden pegs of any size for shoes."—Dated 29th March, 1858; expired 29th March, 1859.

64. Mendl, Brothers, for "Improvements in the manufacture of gas burners of wrought iron with a double screw."—Dated 29th March, 1858; expired 29th March, 1859.

65. Joseph Schediwy, for "Improvements in the manufacture of torches."—Dated 1st May, 1858; expired 1st May, 1859.

66. Franz Dollinger, for "Improvements in planes."—Dated 9th August, 1858; expired 9th August, 1859.

67. Michael Kohl, for "A coffee machine."—Dated 2nd August, 1858; disclaimed 30th June, 1859.

68. Robert Mushet, for "Improvements in the manufacture of wrought iron and steel from refined and uncarbonized pig iron."—Dated 29th May, 1857; expired 29th May, 1859.

69. Carl Waltjen and Company, for "A machine for obtaining sand moulds for castings, especially for pipes."—Dated 22nd August, 1858; expired 22nd August, 1859.

BELGIUM.*

List of Patents Delivered on the 1st December, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 614 of this Journal.)

7758. L. Duparcq, of Ghent, for "Manufacture of cylinders of rolling mills."—Dated 13th July, 1859.

8187. J. Erwood, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in the manufacture of glass, sand or

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office where also translated Indexes may be consulted.

emery paper."—Dated 4th November, 1859.—(English Patent,

8188. J. B. Falguière, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A steam fire-engine."—Dated 4th November, 1859.—(Original Patent, 10th October, 1857.)

8189. G. F. Lombard, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A steam-engine."—Dated 4th November, 1859.—(Original Patent, 3rd October, 1857.)

8190. C. R. Neustadt, represented by H. Biebuyck, of Brussels, for "Improvements in cranes and other apparatus for raising weights without using drums, and by means of Welsh chains."—Dated 4th November, 1859.

8191. J. de Barry, represented by H. Biebuyck, of Brussels, for an imported invention of "A machine for making cigars."—Dated 4th November, 1859.—(French Patent, 27th October, 1859.)

8192. F. V. Mouilleron, represented by H. Biebuyck, of Brussels, for an imported invention of "A cryptographic machine for diplomatic and other correspondence."—Dated 4th November, 1859.—(French Patent, 15th October, 1859.)

8193. A. Mosselman, represented by X. Raclot, of Brussels, for "An aromat-electric belt."—Dated 4th November, 1859.

8194. J. Brunfaut, Brothers, and Co., represented by L. Haut, of Namur, for "A process for completely removing the sulphur from metallic sulphides, and manufacture of sulphur."—Dated 5th November, 1859.

8195. F. de Lannoy, of Schaerbeck, a Patent of Improvement for "An apparatus for mincing meat."—Dated 5th November, 1859.

8196. J. Plantier, represented by A. Picard, of Brussels, for an imported invention of "Jointed brushes."—Dated 5th November, 1859.—(French Patent, 12th March, 1859.)

8197. W. Avery, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in the manufacture of wooden screws."—Dated 5th November, 1859.—(English Patent, 16th March, 1859.)

8198. V. Corne, represented by O. Daillencourt, of Brussels, for an imported invention of "A solidifying and disinfecting compound for the manufacture of manure and embalming."—Dated 5th November, 1859.—(French Patent, 9th November, 1859.)

8199. J. L. Langlois, represented by O. Daillencourt, of Brussels, for "Metal railway sleepers."—Dated 5th November, 1859.—(French Patent, 25th October, 1859.)

8200. E. Juzet, represented by Daillencourt, of Brussels, for an imported invention of "Improvements in the rolling stock of railways."—Dated 5th November, 1859.—(French Patent, 15th January, 1859.)

8201. J. Engelmann, of Charleroi, for "An apparatus with a variable expansion, and without slides, for distributing steam, worked by means of a single eccentric."—Dated 7th November, 1859.

8202. A. Coquilhat, of Liége, for "A machine for rifling guns."—Dated 5th November, 1859.

8203. H. Coste, represented by X. Raclot, of Brussels, for an imported invention of "An apparatus for filtering water, applicable to all branches of industry."—Dated 7th November, 1859.

8204. C. J. L. Maire and J. B. F. J. Vallié, represented by H. Biebuyck, of Brussels, for an imported invention of "Using water or water-steam as auxiliary fuel in metallurgic processes."—Dated 7th November, 1859.—(French Patent, 20th September, 1859.

8205. J. Mac Cormick and Ed. Pincus, represented by H. Biebuyck, of Brussels, for an imported invention of "An apparatus for cooking food and fruit."—Dated 7th November, 1859.—(French Patent, 15th October, 1859.)

8206. J. Sidebottom, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the manufacture of tubes or cops, and in apparatus for placing the same on spindles."—Dated 7th November, 1859.—(French Patent, 26th October, 1859.

8207. J, F, Willans, represented by J. Piddington, of Brussels, for an imported invention of "Utilizing peat for the treatment of metals and mineral and alkaline substances."—Dated 7th November, 1859.—(English Patent, 4th May, 1859.)

8208. E. A. Cuche, represented by M, Gloesener, of Liége, for an imported invention of "Improvements in galvanizing metallic wire."—Dated 7th November, 1859.—(French Patent, 24th August, 1859.)

8209. H. Z. Parent, represented by L. J. Coqu, of Tournay, for an imported invention of "Manufacture of figured stuffs on power-looms,"—Dated 8th November, 1859.

8210. L. J. Counet, of Feneur, for "Revolvers."—Dated 8th November, 1859.

8211. G. Laport, of Liége, for "Breech-loading fire-arms, with Lefaucheux cartridges."—Dated 9th November, 1859.

8212. J. Pauchenne, of St. Remy, a Patent of Improvement for "Lever and hinged revolvers."—Dated 7th November, 1859.—(Original Patent, 26th May, 1859.)

8213. E. Dormoy, of Mons, for "A feeding float with a steady level."—Dated 8th November, 1859.

8214. C. F. Bailly, represented by X. Raclot, of Brussels, a Patent of Improvement for "A complete system of washing, bleaching, and drying linen."—Dated 8th November, 1859.—(Original Patent, 29th December, 1858.)

8215. F. Deppe, of Brussels, for "Elastic belts of trousers, drawers, &c."—Dated 9th November, 1859.

8216. A. Reper, of Brussels, for "Safety pockets of dresses."—Dated 10th November, 1859.

8217. E. Taylor, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in the construction of railways."—Dated 10th November, 1859.—(English Patent, 12th October, 1859.)

8218. Ch. Bacon, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in glass globes and shades of lamps and gas

burners."—Dated 10th November, 1859.—(English Patent, 3rd November, 1859.)

8219. A. PINARD, represented by J. Piddington, of Brussels, for an imported invention of "A kind of passe-partout of frames."—Dated 10th November, 1859.—(French Patent, 20th October, 1859.)

8220. P. MARCOTTY of Montegnée, for "A system of parachutes for mines."—Dated 10th November, 1859.

8221. J. H. J. DELCHEF, of Liége, for "Improvements in breech-loading shooting guns."—Dated 10th November, 1859.

8222. N. H. J. THION, of Liége, for an "Apparatus for loading, compressing, and priming Lefaucheux' cartridges."—Dated 11th November, 1859.

8223. A. SOUHEUR-FOSSOUL, of Seraing, for "A machine for working coal-pits, mines, quarries, &c."—Dated 12th November, 1859.

8224. F. VAN HECKE, of Bruges, for "A thrashing machine."—Dated 12th November, 1859.

8225. GREENWOOD, BATLEY, and DOCKRAY, represented by R. Busk, of Ghent, for an imported invention of "Improvements in machines for spinning flax, hemp, and other filamentous substances."—Dated 10th November, 1859.—(English Patent, 20th January, 1859.

8226. J. M. S. MELOTTE and C. J. THIESSET, represented by J. Sainthill, of Brussels, for an imported invention of "A so-called 'Melochromographic process for printing fabrics."—Dated 10th November, 1859.—(French Patent, 4th November, 1859.)

8227. EUG. GRENET, represented by J. Piddington, of Brussels, for "An electric regulator."—Dated 11th November, 1859.

8228. G. F. BRADBURY, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in certain apparatus for sewing machines."—Dated 11th November, 1859.—(English Patent, 27th January, 1859.)

8229. AUG. GODCHAUX, represented by X. Raclot, of Brussels, for an imported invention of "Improvements in obtaining models of calligraphy, drawings, and ruled paper by means of printing."—Dated 11th November, 1859.—(French Patent, 8th September, 1859.)

8230. EUG. VIEUXTEMS, of Limbourg, for "A gas furnace for heating generators of steam engines."—Dated 12th November, 1859.

8231. EUG. VIEUXTEMS, of Limbourg, for "A machine for scutching cotton."—Dated 12th November, 1859.

8232. D. MULKAY, of Brussels, for "Manufacture of springs of tempered steel for crinoline petticoats."—Dated 12th November, 1859.

8233. J. L. ENGLER and E. F. KRAUSS, represented by O. Daillencourt, of Brussels, for an imported invention of "Improvements in the manufacture of sugar-moulds of varnished or enamelled sheet-iron."—Dated 12th November, 1859.

8234. P. E. BRISSON, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A system of mills."—Dated 15th November, 1859.—(Original Patent, 11th May, 1859.)

8236. J. F. BELLEVILLE, represented by H. Biebuyck, of Brussels, for an imported invention of "An inexplosive generator with equipoised vaporization."—Dated 15th November, 1859.—(French Patent, 8th November, 1859.)

8237. H. A. D'ARBEL, senr., represented by A. Hernelle, of St. Josse-ten-Noode, for an imported invention of "A complete portable lighting and heating apparatus,"—Dated 15th November, 1859.—(French Patent, 26th October, 1859.)

8238. A. LIERNEUX, of Verviers, for "An economical stove."—Dated 15th November, 1859.

8239. P. FAURE and J. PERNOD, represented by J. Lantheere, of Ghent, for an imported invention of "Utilizing the residue of the manufacture of garancine."—Dated 15th November, 1859.—(French Patent, 3rd June, 1859.)

8241. A. L. BILLIET-GODEFROID, represented by F. Boulogne-Bochard, of Tournai, for an imported invention of "Applying various kinds of plain tissues, plaited and twilled dimity, to the manufacture of so-called 'Isabelle bands on common looms."—Dated 18th November, 1859.—(French Patent, 29th January, 1859.)

8242. E. BOUCQUEAU, of St. Josse-ten-Noode, for "Manufacture of rafters of rolled iron, by means of old rails of railways."—Dated 18th November, 1859.

8243. ED. VANCOPPENOLLE, of Berchem-lez-Audenarde, for "An apparatus for cutting roots."—Dated 17th November, 1859.

8244. H. PHILLIPS and J. BANNEHR, represented by A. Anoul, of Ixelles, for an imported invention of "Manufacture of manure."—Dated 18th November, 1859.—(English Patent, 27th October, 1859.)

8245. C. C. CAIQUE, represented by X. Raclot, of Brussels, a Patent of Improvement for "An air reservoir of corn mills."—Dated 18th November, 1159.—(Original Patent, 10th May, 1859.)

8246. P. MARCOTTY, of Montegnée, for "A system of tubular bridges with moveable abutments."—Dated 16th November, 1859.

8247. C. DANDOY and D. D. RENNOTTE, of Liége, a Patent of Improvement for "Fastening revolving fire-arms."—Dated 18th November, 1859.—(Original Patent, 17th November, 1856.)

8248. CH. SETON, represented by J. Piddington, of Brussels, for an imported invention of "Improvements in the manufacture of carriage-wheels."—Dated 14th November, 1859.—(English Patent, 19th October, 1859.)

8249. F. LESPADIN, represented by C. Wenseleers, of Brussels, for an imported invention of "A mould for making bottles and other glass articles."—Dated 19th November, 1859.

8250. V. Marie, represented by A. Hennelle, of Brussels, for "A system of valves for water-pipes." —Dated 19th November, 1859.

8251. W. H. Ward, represented by F. Anthoine, of Brussels, for an imported invention of "Tanning by means of electricity."—Dated 19th November, 1859.—(French Patent, 5th November, 1859.)

8252. G. M. Jacob, of Liége, for "A fireplace and furnace for steam-boilers."—Dated 21st November, 1859.

8253. J. Kirsch, of Liége, for "Improvements in lamps."—Dated 21st November, 1859.

8256. F. Marchal, represented by C. Garcin, of Brussels, for an imported invention of "An apparatus for indicating the excess of steam-pressure in generators." — Dated 21st November, 1859. — (French Patent, 25th October, 1859.)

8255. F. Coignet, represented by J. Piddington, of Brussels, for an imported invention of "Preparing and using plastic beton."—Dated 1st November, 1859.—(French Patent, 10th November, 1859.)

8257. P. Bazin and Co., of Mons, for "An apparatus for instantaneously lighting lamps."—Dated 22nd November, 1859.

8258. J. Rothenheisler, of Antwerp, for "A rocking balance."—Dated 23rd November, 1859.

8260. Goudenove and Féret, represented by D. De Vos-Verraert, of Brussels, for an imported invention of "A system of closing and regulating boxes for gas-lighting apparatus."—Dated 22nd November, 1859.—(French Patent, 8th August, 1858.)

8261. N. Rave and his Brother, of Cureghem, for "A chemical product, being a substitute for gunpowder in blasting."—Dated 22nd November, 1859.

8263. N. L. Dejean, represented by H. Biebuyck, of Brussels, for an imported invention of "An hydraulic engine."—Dated 22nd November, 1859. —(French Patent, 23rd February, 1858.)

8264. E. Rettig, represented by P. Bals, of Brussels, for an imported invention of "Anchors."—Dated 22nd November, 1859. — (English Patent, 27th August, 1859.)

8265. P. Jochem, represented by P. Bals, of Brussels, for an imported invention of "Improvements in breaks of railway and other carriages."—Dated 22nd November, 1859.—(French Patent, 8th November, 1859.)

8266. P. A. Viette, of Saint Josse-ten-Noode, a Patent of Improvement for "Processes for relief or intaglio engravings on stone, glass, and metals." —Dated 22nd November, 1859.—(Original Patent, 10th January, 1859.)



FRANCE.

Current List of Patents of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

Note.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

41,029. Ahsbahs, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in machines for cutting veneers."— Dated 19th May, 1859.

41,030. Bérard, of 323, Rue St. Denis, Paris, for "Applying collodion tissues to the manufacture of ribbons."—Dated 19th May, 1859.

41,031. Boigues, Rambourg and Co., of 16, Place Vendôme, Paris, for "Manufacture of hollow pieces of cast metal."—Dated 20th May, 1859.

41,032. Bonleau, brothers, of Parthenay, département des Deux-Sèvres, for "Hygienic shirts."— Dated 28th May, 1859.

41,033. Carpentier, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "So-called salubrious gutters."—Dated 18th May, 1859.

41,034. Cart, of 13, Rue de Reuilly, Paris, for "Improvements in machines for cutting veneers."— Dated 18th May, 1859.

41,035. Chaigneau, brothers, of Lormont, département de la Gironde, for "A mixed system of building vessels of wood and iron."—Dated 25th May, 1859.

41,036. Champonnois, of 8, Rue de la Jussienne, Paris, for "A chaff-cutter."—Dated 20th May, 1859.

41,037. Coopman, domiciled at 12, Rue Geoffroy-Marie, Paris, for "Improvements in tanning."— Dated 3rd June, 1859.

41,038. Cosne, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in mounting chains of jewels or trinkets."— Dated 18th May, 1859.

* For the French Patent Law see No. 228 of this Journal.

41,039. Damon, of 21, Rue de la Croix, Saint-Etienne, département de la Loire, for "Improvements in reeds of velvet and other looms."—Dated 27th May, 1859.

41,040. Daublaine, of Hôtel Montesquieu, Bordeaux, for "Substituting turf for coals and charcoal in smelting and treating iron and other ores."—Dated 28th May, 1859.

41,041. Desvernois, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "A continuous rotary rasp."—Dated 19th May, 1859.

41,042. Dizy, domiciled at 37, Rue de Charonne, Paris, for "A system of crown bricks, and applying the same to building in general."—Dated 19th May, 1859.

41,043. Drivon, of la Mure, département du Rhône, for "A band composed of various strings, especially for hoops of petticoats."—Dated 25th May, 1859.

41,044. Farjon, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in his system of joining."—Dated 19th May, 1859.

41,045. Farjon, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Closing vessels and bowls containing gaseous liquids, preserved food, &c."—Dated 19th May, 1859.

41,046. Gailly, of 67, Rue Lafayette, Paris, for "Composition of economical taps and cocks."—Dated 20th May, 1859.

41,047. Grivel, jun. and Decombes, of 4, Avenue du Chateau d'Eau, Romainville, département de la Seine, for "A signal apparatus for railways."—Dated 18th May, 1859.

41,048. Hirsch, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A centrifugal screw."—Dated 19th May, 1859.

41,049. Hirsch, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A normal boat."—Dated 19th May, 1859.

41,050. Jacob, of 70, Rue Boileau, Lyon, for "Iron framings for supporting dye vats."—Dated 26th May, 1859.

41,051. Laury, of 31, Rue Tronchet, Paris, for "Improvements in dresses."—Dated 19th May, 1859.

41,052. Leblanc, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Manufacture of hollow rings."—Dated 19th May, 1859.

41,053. Le Breton, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Treatment of clayish earths and other ores."—Dated 18th May, 1859.

41,054. Lenot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Unspun wefts of various textile and filamentous substances for blankets, &c."—Dated 19th May, 1859.

41,055. Lieber, represented by Rebecq, of Ste. Susanne, Ile de la Réunion, for "A rectifying apparatus applied to distilling rum."—Dated 18th December, 1858.—(English Patent, 9th March, 1857.)

41,056. Michel, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of foot coverings."—Dated 20th May, 1859.

41,057. Moreau, of 4, Rue du Parc Royal, Paris, for "Improvements in Congreve rockets."—Dated 16th May, 1859.

41,058. Pierce, represented by Fleischmann, of 27, Boulevart des Italiens, Paris, for "Improvements in steam boilers."—Dated 19th May, 1859.—(American Patent, 5th April, 1859.)

41,059. Reymond, Caluire, and Cuire, of 14, Chemin de Montessuy, Lyon, for "Improvements in jacquart machines."—Dated 25th May, 1859.

41,060. Rives jun., of Talence, Banliene de Bordeaux, for "A double action truck."—Dated 26th May, 1859.

41,061. Tritschler, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in horse-gins, chiefly applicable to agricultural machines."—Dated 18th May, 1859.

41,062. Tussaud, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in machines for mincing meat and other substances."—Dated 18th May, 1859.

41,063. Armengaud, sen., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Machines for treating turf."—Dated 21th May, 1859.

41,064. Bernier-Degorgue, of Lille, for "A jack for closing frames and Venetian blinds at the same time."—Dated 1st June, 1859.

41,065. Botté, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in spindles for spinning, &c."—Dated 23rd May, 1859.

41,066. Carrère, of 23, Rue St. Leonard, Nantes, for "An instrument for decanting liquids."—Dated 1st June, 1859.

41,067. Charpentier Brothers, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Spring crotchets for iron bedsteads."—Dated 23rd May, 1859.

41,068. Colantier, au Cateau, département du Nord, for "A substance for repairing holes of steam engines without stopping the same."—Dated 1st June, 1859.

41,069. Couillard, of 15, Rue St. Etienne Bonne, Nouvelle, Paris, for "Mechanism for making flaps of dresses."—Dated 21st May, 1859.

41,070. Crémieux, of 29, Boulevart des Italiens, Paris, for "Improvements in tailoring."—Dated 21st May, 1859.

41,071. Dubois, of 4, Place Neuve des Garmes, Lyon, for "A sowing machine."—Dated 31st May, 1859.

41,072. Emery and Seuffert, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A syphon apparatus for obtaining seltzer water on the spot."—Dated 20th May, 1859.

41,073. Garnier, of 32, Rue de Malte, Paris, for "Improvements in the manufacture of smoking pipes."—Dated 21st May, 1859.

41,074. Girouard, of 12, Place de la Bourse, Paris, for "Using bituminous substances."—Dated 23rd May, 1859.

41,075. Grenet, of Barbezieux, département de la Charente, for "An instrument called 'Registering syphon.'"—Dated 30th May, 1859.

41,076. Guillemot-Vollet, of Savigny-sous-Beaume, département de la Côte d'Or, for "An apparatus for heating water in baths."—Dated 31st May, 1859.

41,077. Jamin, represented by Le Blanc, of 2, Rue Sainte Appoline, Paris, for "Improvements in the camera obscura."—Dated 21st May, 1859.

41,078. Jolivet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A portable press for wine and other beverages."—Dated 23rd May, 1859.

41,079. Journet and Convers, of 24, Route d'Asnières, Batignolles, département de la Seine, for "A machine for making earth works."—Dated 23rd May, 1859.

41,080. Laffitte, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in machines and processes for preparing and dressing silk which has been dyed a second time."—Dated 20th May, 1859.

41,081. Lauwick, of Comines, département du Nord, for "Improvements in looms for weaving borders of terry velvet."—Dated 31st May, 1859.

41,082. Loche, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in lime kilns."—Dated 21st May, 1859.

41,083. Marais and De Reiset, represented by Oscar Oraison, of Basse Terre, Guadeloupe, for "Improvements in the manufacture of sugar."—Dated 25th January, 1859.

41,084. Marc, of Nantes, département de Seine et Oise, for "Improvements in his instrument for regulating and dressing cuttings for drainage, as patented 2nd June, 1858."—Dated 30th May, 1859.

41,085. Newton, Smith, and Brown, represented by D'Aubreville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in machines and apparatus for raising or moving heavy weights."—Dated 23rd May, 1859.—(English Patent, 24th December, 1858.)

41,086. Paillard, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "An apparatus with triple gearings."—Dated 23rd May, 1859.

41,087. Pascal, represented by Gardissal, of 29, Boulevard St. Martin, Paris, for "Improvements in generators and hot-air engines."—Dated 20th May, 1859.

41,088. Pelissier, of Grand Chemin d'Aix, Marseille, for "A tissue for the manufacture of oil."—Dated 25th May, 1859.

41,089. Pelissier, of 4, Rue des Ayres, Bordeaux, for "A system of crotchets for removing and conveying weights."—Dated 1st June, 1859.

41,093. Piver, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process for extracting the scent and aroma from flowers, leaves, vegetables, fruit, &c."—Dated 23rd May, 1859.

41,091. Pommeraux, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for packing hay, straw, &c."—Dated 21st May, 1859.

41,092. Guilllon, of 14, Rue Tupin, Lyon, for "Improvements in regulating hydraulic receivers."—Dated 30th May, 1859.

41,093. Rivière, of Vannes, département du Morbihan, for "A machine for crushing materials used for repairing roads."—Dated 25th May, 1859.

41,094. Leyvon, jun., of 61, Cours Lafayette, Lyon, for "A twyer, with circulating air."—Dated 29th May, 1859.

41,095. Simonin, of Angoulême, for "Transmission of elasticity in spring mattresses."—Dated 1st June, 1859.

41,096. Alesmonières and Frédiére, of 28, Quai St. Vincent, Lyon, for "A colouring substance called 'Malvine.'"—Dated 7th June, 1859.

41,097. Barré, of 15, Rue des Alouttes, Belleville, for "A day and night telegraph of tides, with a gun and bell."—Dated 25th May, 1859.

41,098. Bérard, of 323, Rue St. Denis, Paris, for "Rendering hats impervious by means of collodion."—Dated 25th May, 1859.

41,099. Bruant, of 67, Rue St. Louis-au-Marais, Paris, for "A system of air-navigation."—Dated 24th May, 1859.

41,100. Chaudet, of 42, Rue de la Santé, Paris, for "Manufacture of leather buttons."—Dated 25th May, 1859.

41,101. Colon, with Thierry, jun., of 91, Rue des Marais St. Martin, Paris, for "Relief embroideries, imitating varieties of nature."—Dated 25th May, 1859.

41,102. Conradson, of Schelestadt, département du Bas Rhône, for "A machine for cutting glue and gelatine into sheets."—Dated 1st June, 1859.

41,103. Cornevin, of 6, Rue St. Nicolas du Chardonnet, Paris, for "A cask with a moveable bottom."—Dated 25th May, 1859.

41,104. Dandville, of Mouy, département de l'Oise, for "Spinning."—Dated 1st June, 1859.

41,105. Dessales, of 13, Rue des Enfants-Rouges, Paris, for "A suspension rod, with a stop for lamps."—Dated 24th May, 1859.

41,106. Ferrand, of 25, Rue St. Bernard, Paris, for "Improvements in the manufacture of castors of bedsteads."—Dated 25th May, 1859.

41,107. Foucquier, of Onnaing, département du Nord, for "A machine for making toothed steel blades for sugar and fecula works."—Dated 6th June, 1859.

41,108. Gallais and The Compagnie Parisienne for making Billiards, of 62, Rue de Poissonniers, La Chapelle St. Denis, for "A system of billiard tables."—Dated 24th May, 1859.

41,109. Ganeval, Bondier, and Company, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mode of joining tubes of smoking-pipes and cigar mouth-pieces."—Dated 24th May, 1859.

41,110. Kessler, of 21, Rue Jurue, Metz, for "Processes for the manufacture of aluminium and its compounds."—Dated 6th June, 1859.

41,111. De La Peyrouse, of 42, Rue Notre Dame de Lorette, Paris, for "Improvements in dyeing."—Dated 24th May, 1859.

41,112. Lefin and Bailly, of Saint Nicoles, Arras, for "A click-instrument for taking soundings of coal fields."—Dated 18th May, 1859.

41,113. Lisbet, of Bully Grenay, département du Pas-de-Calais, for "An apparatus for boring holes in rocks for blasting."—Dated 7th June, 1859.

41,114. Lorier, at Thil, département de l'Eure, for "A moveable suspension apparatus for thrashing and cleaning colza in the open field."—Dated 4th June, 1859.

41,115. Macé, of Rue de Tours, Laval, département de la Mayenne, for "A carriage suspended on journals with cranked axles and iron cross-bar."—Dated 6th June, 1859.

41,116. Mitifiot, of Loriol, département du Drôme, for "An apparatus for regenerating and preserving silk worms."—Dated 31st May, 1859.

41,117. Moissard, of 40, Rue de Fontenelle, Rouen, for "A kind of shirts without buttons, with elastics and india rubber."—Dated 4th June, 1859.

41,118. Nelson, represented by Zacharie, of 40, Rue de Bourbon, Lyon, for "Improvements in apparatus for raising water and other liquids."—Dated 6th June, 1859.—(English Patent, 22nd November, 1858.)

41,119. Noetinger, of 25, Rue des Serruriers, Strasbourg, for "Manufacture of cubes for marbles, and colouring, gilding and silvering said marbles."—Dated 31st May, 1859.

41,120. Perkin and Gray, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in mordants and dyes for tissues of cotton and other vegetable fibres."—Dated 25th May, 1859.—(English Patent, 21st May, 1859.

41,121. Potaux, of Vendin-les-Béthumes, département du Pas-de-Calais, for "Patent axles of trucks for mines."—Dated 4th June, 1859.

41,122. Poussart, of Arnicourt, département des Ardennes, for "A brush for cleaning the inside of teeth."—Dated 9th June, 1859.

41,123. Protte, of Vandeuvre, département de l'Aube, for "A portable thrashing machine."—Dated 4th June, 1859.

41,124. Renaux, jun., of 32, Rue Martainville, Rouen, for "Apparatus for previously distilling feed water of boilers."—Dated 3rd June, 1859.

41,125. Ruffier and Guinet, of Rive-de-Gier, département de la Loire, for "Pipes of compressed asphalt for the conveyance of water, gas, and even for drainage."—Dated 6th June, 1859.

41,126. Védy, represented by Amouroux, of 333, Rue St. Martin, Paris, for "Improvements in mathematical instruments for the navy."—Dated 25th May, 1859.

41,127. Warendeuf and Guignault, of Rue, département de la Somme, for "A machine for moulding and compressing turf, with a horse-gin belonging thereto."—Dated 4th June, 1859.

41,128. Andrieux, senr., of Glennes, département de l'Aisne, for "A perpetual motor."—Dated 8th June, 1859.

41,129. Batty, represented by Perpigna, of 42, Rue Neuve St. Augustine, Paris, for "A process or apparatus for establishing instantaneously a communication between railway travellers and the engine driver or guards."—Dated 28th May, 1859.—(English Patent, 19th April, 1859.

41,130. Bretonnière with Dubois, of 60, Rue de Chaillot, Paris, for "Using a costless motive power."—Dated 26th May, 1859.

41,131. Chantrel, of 43, Rue de Clichy, Paris, for "Extracting beetroot juice."—Dated 28th May, 1859.

41,132. Clegg, represented by Sautter, of 14, Boulevart Montmarte, Paris, for "Improvements in lubricating valves and pistons in steam-engines."—Dated 28th May, 1859.—(English Patent, 17th December, 1858.)

41,133. Corfield, junr., represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in chains for coupling cranes, cables, mining purposes, hoisting, and all other purposes where chains are used."—Dated 20th May, 1859.—(English Patent, 5th January, 1859.)

41,134. Dagand, of 23, Rue Neuve St. Denis, Paris, for "A friction-grate for lighting matches."—Dated 26th May, 1859.

41,135. Dale, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of soda, salts, and other alkalis."—Dated 27th May, 1859.—(English Patent, 8th October, 1858.)

41,136. Dupuy, Simon, and Gauny, of Maison Jacussiaux, Lyon, for "Extracting and using the fat substances contained in the waste suds of dye-works."—Dated 7th June, 1859.

41,137. Egasse, of 10, Rue Mogador, Paris, for "A metallic varnish for protecting metals from oxidation, and for preserving wood in general."—Dated 28th May, 1859.

41,138. Féramus, domiciled with Dreyfous, of 54, Rue de Bondy, Paris, for "Naves of wheels."—Dated 28th May, 1859.

41,139. Frost-Nuthall, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in cannons and fire-arms and in their projectiles."—Dated 26th May, 1859.—(English Patent, 10th May, 1859.)

41,140. Godard-Desmarest, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A peculiar arrangement of the necks of vessels containing gaseous liquids."—Dated 27th May, 1859.

41,141. Jouanet, of 6, Rue St. Gilles, Paris, for "Gallery of baked clay for the subterraneous laying of sewers, gas and water pipes."—Dated 28th May, 1859.

41,142. Jung, of 24, Rue des Menus, Boulogne, département de la Seine, for "Bottles of filtering stone with glass collars, &c."—Dated 26th May, 1859.

41,143. Lalonel De Sourdeval, of 22, Rue Bergère, Paris, for "Extracting quinine and other organic alkalis."—Dated 23rd April, 1859.

41,144. LAMIRAL, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Fastenings of doors of kitchen-ranges."—Dated 26th May, 1859.

41,145. LEGRAND, of 12, Rue des Hautes-Gatines, Charonne, département de la Seine, for "A kind of enamelled tiles."—Dated 27th May, 1859.

41,146. LEMAIRE, of 104, Route d'Orléans, Montrouge, département de la Seine, for "A spinning spindle."—Dated 26th May, 1859.

41,147. MARCHAND, of 26, Rue de la Fabrique, Clichy la Garenne, département de la Seine, for "Means of taking vapour baths."—Dated 28th May, 1859.

41,148. MERLATEAU, with Maldant, of 25, Quai des Chartrons, Bordeaux, for "An apparatus called 'Differential silometer.'"—Dated 9th June, 1859.

41,149. MILLE, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Manufacture of portable economical gas" — Dated 26th May, 1859.

41,150. MIQUEL, represented by Brade, of 22, Rue Ste. Anne, Paris, for "A truss."—Dated 28th May, 1859.

41,151. ORDISH, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the construction of rails for railways."—Dated 28th May, 1859. — (English Patent, 9th November, 1858.)

41,152. PETERSON, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of impervious paper for cartridges, being also applicable to other purposes where impervious paper is employed."—Dated 25th May, 1859.—(English Patent, 24th November, 1858.)

41,153. PINONDEL DE LA BERTOCHE and Le Comte de MASSON D'AUTUME, represented by Brade, of 22, Rue Ste. Anne, Paris, for "Means of drying and torrefying combustible substances."—Dated 27th May, 1859.

41,154. SCHRODER, with Geber, of 53, Rue Vivienne, Paris, for "A distilling apparatus."—Dated 26th May, 1859.

41,155. SELLERS, domiciled Lillo and Co., of 9, Square Clary Chaussée d'Antin, Paris, for "Improvements in machines for screw-cutting bolts."—Dated 27th May, 1859.—(American Patent, 1st December, 1857.)

41,156. SIMON, of 6, Chaussée des Minimes, Paris, for "Improvements in the manufacture of iron pipes.'"—Dated 26th May, 1859.

41,157. STEGER, of 40, Boulevart de Sébastopol, Paris, for "A machine and processes for the manufacture of nuts."—Dated 26th May, 1859.

1,158. VIAL and GONNON, of 48, Rue St. Joseph, Lyon, for "Conglomerating fuel."— Dated 8th June, 1859.

SUPPLEMENT to the SERIES of LETTERS PATENT and SPECIFICATIONS of LETTERS PATENT for INVENTIONS recorded in the Great Seal Patent Office, and granted between the 1st March (14 Jac. I.) A.D. 1617, and the 1st October (16 Vict.) A.D. 1852; consisting for the most part of Reprints of scarce Pamphlets, descriptive of the early patented Inventions comprised in that Series. Edited by BENNET WOODCROFT, Superintendent of Specifications, etc. In one vol., price 9*s.* 6*d.*, or each Tract separately at the price affixed.

CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions &c. By SIMON STURTEVANT. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By JOHN ROVINSON (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether NICHOLAS PAGE or Sir NICHOLAS HALSE was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. DUD DUDLEY'S Metallum Martis; or iron made with pitcoale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by WILLIAM WHELER, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Eugine, invented by the Right Honourable (and deservedly to be praised and admired) EDWARD SOMERSET. Lord Marquis of WORCESTER, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
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No. 620. TUESDAY, DECEMBER 13, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given that

1719. JOSEPH G. ISHAM and STEPHEN D. ALBERTSON, of the city and state of New York, United States of America, have given notice at the Office of the Commissioners of their intention to proceed with their application for Letters Patent for the invention of "An improved machine for cutting and shaping bottle and other corks."—A communication from Albert Albertson, a person residing abroad.

As set forth in their petition, recorded in the said office on the 22nd day of July, 1859.

1779. And JAMES ROWLAND, of Salisbury, has given the like notice in respect of the invention of "An improved apparatus for mashing and mixing."

As set forth in his petition, recorded in the said office on the 1st day of August, 1859.

1783. And JAMES CHARLES ASHWELL, of Dorchester Street, New North Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in wheels for railway and other carriages."

As set forth in his petition, recorded in the said office on the 2nd day of August, 1859.

1789. And WILLIAM KIRKBY PEACE, of the firm of W. K. and C. Peace, of Eagle Works, Sheffield, in the county of York, Manufacturer, has given the like notice in respect of the invention of "An improvement in canisters for hermetically sealing paints and other substances."—A communication from abroad by Frederick L. Whiton and John W. Musary, of New York, in the United States of America.

1791. And WILLIAM HENRY TOOTH, of 3, Spring Terrace, Wandsworth Road, in the county of Surry, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for the manufacture of iron or steel."

1793. And JOHN PETRIE the younger, of Rochdale, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for washing wool."

As set forth in their respective petitions, all recorded in the said office on the 3rd day of August, 1859.

1801. And FREDERICK WALTON, of Haughton Dale, Denton, near Manchester, has given the like notice in respect of the invention of "Improvements in the manufacture of ornamental fabrics suitable for bookbinding and other uses, and in machines employed in such manufacture."

As set forth in his petition, recorded in the said office on the 4th day of August, 1859.

1805. And NICHOLAS DORAN MAILLARD, of No. 18, York Street, Dublin, in Ireland, Gentleman, has given the like notice in respect of the invention of "Improvements in compasses for indicating the course and time of ships at sea, without the use of needles or magnets."

1806. And MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, has given the like notice in respect of the invention of "A system of columns or monuments to be employed as sentry boxes, branch post and other offices, telegraph and fire engine stations."—A communication from Trénée Leÿs, residing at Amsterdam, Holland.

1810. And FRANCIS WILLIAM BEAUMONT, of Clapham, in the county of Surrey, Civil, Mechanical, Mining, and Gas Engineer and Surveyor, has given the like notice in respect of the invention of "A hydraulic apparatus applicable to transmitting, regulating, and measuring the supply or flow of liquids."

1811. And WARREN THOMPSON, of 45, Essex Street, Strand, London, has given the like notice in respect of the invention of "An improved printing telegraph."

As set forth in their respective petitions, all recorded in the said office on the 5th day of August, 1859.

1815. And AUGUSTUS BRYANT CHILDS and LEMUEL DOW OWEN, of 192, Tottenham Court Road, London, county of Middlesex, Engineers, have given the like notice in respect of the invention of "Improvements in machinery for cleaning grain and seeds from smut and other extraneous matter."

1816. And ALFRED THEODORE DE LISLE, of 14, Addison Road, Kensington, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Improvements in clarifying and decolorizing solutions of sugar and other liquids."

As set forth in their respective petitions, both recor ed in the said office on the 6th day of August, 1859.

1827. And BENJAMIN BAUGH, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Certain improvements in the mode and apparatus for partially forming and finishing the edges of certain descriptions of vessels formed or raised from sheet iron or other metal."

As set forth in his petition, recorded in the said office on the 8th day of August, 1859.

1837. And PIERRE FRANÇOIS ROLLAND, of Hensies, in the province of the Hainaut, Belgium, Mechanic, has given the like notice in respect of the invention of "A new electric telegraph."

1838. And CHARLES LOUIS JOSEPH DIERICKX, Director of the Mint, residing at the Mint, in the city of Paris, has given the like notice in respect of the invention of "A new system of scales to be used principally in the fabrication of coins."

1844. And WELBURN WILLIAMSON, of High Holborn, in the county of Middlesex, Engineer and Machinist, has given the like notice in respect of the invention of "An improved machine or tool for drilling holes."

As set forth in their respective petitions, all recorded in the said office on the 9th day of August, 1859.

1849. And WILLIAM MUIR, of the Britannia Works, in the city of Manchester, Engineer, has given the like notice in respect of the invention of "Improvements in machinery for communicating motion to foot lathes and other machines to be worked by treadles."

As set forth in his petition, recorded in the said office on the 10th day of August, 1859.

1855. And RALPH HEATON the younger, of Birmingham, in the county of Warwick, Manufacturer, and GEORGE HEATON, of Birmingham aforesaid, Manufacturer, have given the like notice in respect of the invention of "Improvements in coining machinery."

As set forth in their petition, recorded in the said office on the 11th day of August, 1859.

1861. And LOUIS ANTOINE POSSOZ, of No. 37, Rue de Rivoli, in the city of Paris, in the empire of France, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture and baking of sugars."

As set forth in his petition, recorded in the said office on the 12th day of August, 1859.

1874. And RICHARD IRELAND WATTS, of Plymouth, in the county of Devon, Merchant, JOHN OFFORD, of the same place, Gentleman, and JOHN ROBERTS THOMAS, also of the same place, Engineer, have given the like notice in respect of the invention of "A method of condensing and consuming smoke and other products of coals, ores, and similar substances, and reducing them to useful materials."

1875. And HENRY THOMAS LAMBERT, of America Square, in the city of London, Ship Chandler, has given the like notice in respect of the invention of "Improved apparatus to be adapted to ship's tackle or boats, for the purpose of facilitating the disengaging of ships' boats when lowered into the water." — A communication from abroad by Captain George Hall Carleton, of Camden, in the state of Maine, United States of America.

As set forth in their respective petitions, both recorded in the said office on the 13th day of August, 1859.

1991. And JOHN CHATTERTON, of Devonshire Street, Islington, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the manufacture of tubes of gutta percha and other substances capable of being moulded in a similar manner when in plastic state, and also in coating wire and other cores with such substances."

As set forth in his petition, recorded in the said Office on the 31st day of August, 1859.

2149. And JOHN BLAIR, of Manchester, in the county of Lancaster, Cotton Dealer, has given the like notice in respect of the invention of "Certain improvements in the treatment of yarns during the operation of spinning, which treatment is also applicable in roving, slubbing, or doubling machines."

As set forth in his petition, recorded in the said office on the 21st day of September, 1859.

2174. And JAMES FERNIHOUGH, of Dukinfield, in the county of Chester, Engineer, has given the like notice in respect of the invention of "Improvements in pistons, plungers, and buckets."

As set forth in his petition, recorded in the said office on the 26th day of September, 1859.

2268. And JAMES TURPIE, of North Shields, has given the like notice in respect of the invention of "Improvements in the fore and aft gaff and boom sails of ships."

As set forth in his petition, recorded in the said office on the 5th day of October, 1859.

2302. And GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, has given the like notice in respect of the invention of "Improvements in the manufacture of paper, pasteboard, and cardboard."—A communication from

abroad by Messrs. Jules Lagosse and Sons, Manufacturers, and Frederic Quentin, Merchant, all of Paris, France.

As set forth in his petition, recorded in the said office on the 10th day of October, 1859.

2319. And Alfred Augustus De Reginald Hely, of 2, Park Village West, Regent's Park, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "Certain improvements in the manufacture of tobacco for smoking purposes."

As set forth in his petition, recorded in the said office on the 12th day of October, 1859.

2460. And Henry Phillips, of Penhoe, in the county of Devon, Chemist, and James Bannehr, of Exeter, in the same county, have given the like notice in respect of the invention of "Improvements in the manufacture of manure."

As set forth in their petition, recorded in the said office on the 27th day of October, 1859.

2532. And Henry Barker, of Hastings, in the county of Sussex, Tobacco and Cigar Dealer, has given the like notice in respect of the invention of "An improvement in clay, meerschaum, and other pipes."

As set forth in his petition, recorded in the said office on the 7th day of November, 1859.

2604. And Jerome André Drieu and Auguste Legeay, of No. 18, Welbeck Street, Cavendish Square, London, in the county of Middlesex, have given the like notice in respect of the invention of "A tissue, being a substitute for leather, millboard, and papier-maché.

2610. And James McKenzie, of No. 16, St. Martin's-le-Grand, in the city of London, and Stephen Thomas Wentworth, of the same place, Gas Engineers, have given the like notice in respect of the invention of "Improvements in breech-loading fire-arms."

As set forth in their respective petitions, both recorded in the said office on the 17th day of November, 1859.

2617. And William Blinkhorn, of Sutton, near St. Helen's, in the county of Lancaster, Manager of the London and Manchester Glass Company, has given the like notice in respect of the invention of "The novel application of certain materials to the manufacture of bricks, quarries, or tiles to be employed principally in the construction of furnaces 'as fire-bricks.'"

As set forth in his petition, recorded in the said office on the 19th day of November, 1859.

2645. And Charles Grey Hill, of Commerce Square, High Pavement, in the town and county of the town of Nottingham, Lace Manufacturer, has given the like notice in respect of the invention of "An improved goffering machine together with the apparatus connected therewith."

As set forth in his petition, recorded in the said office on the 22nd day of November, 1859.

2669. And James Sim, of the city and county of Aberdeen, North Britain, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in measuring and registering the flow or discharge of liquids."

2673. And George Edmond Donisthorpe, of Leeds, has given the like notice in respect of the invention of "Improvements in apparatus for hackling, dressing, and combing silk waste, and other fibres."

As set forth in their respective petitions, both recorded in the said office on the 25th day of November, 1859.

2685. And Enoch Tomey, of the city and county of Perth, North Britain, Glass Manufacturer, has given the like notice in respect of the invention of "Improvements in apparatus for insulating telegraphic wires or conductors."

As set forth in his petition, recorded in the said office on the 28th day of November, 1859.

2713. And George Jordan Firmin, of the Atlas Chemical Works, Borough Road, Southwark, in the county of Surrey, has given the like notice in respect of the invention of "Improvements in the manufacture of tartaric and citric acids, and certain salts in connection therewith."

As set forth in his petition, recorded in the said office on the 30th day of November, 1859.

2723. And John Paton, of Glasgow, in the county of Lanark, North Britain, Engineer, has given the like notice in respect of the invention of "Improvements in valves."

As set forth in his petition, recorded in the said office on the 1st day of December, 1859.

2740. And James Anderson and James Bradshaw, Bakers, Liverpool, Lancashire, have given the like notice in respect of the invention of "Improvements in the construction of the furnaces of bakers' ovens for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces."

As set forth in their petition, recorded in the said office on the 3rd day of December, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

List of Letters Patent which passed the Great Seal on the

13th December, 1859.

1422. Benjamin Baugh, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the county of Warwick, for an invention of "Certain improvements in apparatus or machinery for raising metals."—Dated 13th June, 1859.

1426. Constantine Nicolaus Kottula, of Liverpool, in the county of Lancaster, Soap Manufacturer, for an invention of "A means of cleansing or purifying the 'Thames.'"—Dated 13th June, 1859.

1435. Alexander MacDonald, of Manchester, in the county of Lancaster, Engineer, for an invention of "Certain improvements in machinery or apparatus for punching patterns or devices upon metallic printing rollers or cylinders."—Dated 14th June, 1859.

1436. Edme Jules Maumené, Professor of Chymistry, and Victor Rogelet, Merchant, both residing in Reims, a town of France, for an invention of "Using the 'suint' or the portion soluble in water of the greasy substance found on the skin and hair of sheep for the purpose of manufacturing potash and other products."—Dated 15th June, 1859.

1441. Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W. C., for an invention of "An improved night lamp clock."—A communication from abroad by Louis Montanari, of Paris, in the empire of France.—Dated 16th June, 1859.

1443. Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "An apparatus for regulating individually the pressure, expenditure, and light in gas burners."—A communication from abroad by Edward Ferguson, No. 10, Rue Mogador, Paris, in the empire of France. — Dated 16th June, 1859.

1449. Thomas Edward Tallent, of the Southwark Bridge Road, Southwark, county of Surrey, Engineer, for an invention of "Improvements in the manufacture of leather, and in machinery for that purpose."—Dated 16th June, 1859.

1451. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the empire of France, for an invention of "An improved kiln for brick and plaster burning."—A communication from Mr. A. Mombrun, residing in Paris.—Dated 16th June, 1859.

1459. Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention of "Improvements in treating and decomposing fatty substances."—A communication from abroad by Charles Leroy and Joseph Jean Marie Durand, both residing at No. 25, Route de Fontainebleau, at Chantilly, near Paris, in the empire of France. —Dated 17th June, 1859.

1463. Charles Fréderic Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention of "Improvements in the construction of stereoscopes." — A communication from Henry Adolphe Corbin, residing in Paris, in the empire of France.—Dated 17th June, 1859.

1466. John Combe, of Leeds, in the county of York, Engineer, and Robert Smalpage, of the same place, Woollen Draper, for an invention of "Improvements in winding and spinning machinery, and in arranging and securing a uniform delivery from cops to be used as weft or warp, or for other purposes."—Dated 17th June, 1859.

1467. Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "A new system of windmill."— A communication from abroad by Bernard Zacharie Lethiers, No. 10, Rue Mogador, Paris, in the empire of France.—Dated 18th June, 1859.

1468. James Cox, of Wenlock Road, City Road, in the county of Middlesex, Printing Press Manufacturer and Engineer, for an invention of "Improvements in machinery or apparatus for cutting rags for paper makers."—Dated 18th June, 1859.

1480. Richard Laming, of Hampstead, in the county of Middlesex, for an invention of "Improvements in purifying gas, and in obtaining and reproducing materials useful for that purpose."—Dated 20th June, 1859.

1509. Cromwell Fleetwood Varley, of No. 4, Fortess Terrace, Kentish Town, and Cornelius John Varley, No. 7, York Place, Kentish Town, St. Pancras, Middlesex, for an invention of "Improvements in proving electric conductors, and in the apparatus connected therewith."—Dated 23rd June, 1859.

1543. George Hall, jr., of Montrose, in the county of Forfar, North Britain, Farmer, for an invention of "Improvements in reaping machines." —Dated 29th June, 1859.

1548. Isaac Tirebuck, of Windsor Court, in the city of London, Printer, for an invention of "Improved machinery for printing from engraved plates."—Dated 29th June, 1859.

1596. Arsène Beaulieu, of 25, Rue du Chemin de Fer, Porte de Cologne, Brussels, in the kingdom of Belgium, Mechanical Engineer, for an invention of "Improvements in crinolines, and in machinery for manufacturing springs for such and other purposes."—A communication from abroad by Henri Theodore Van Eycken, a person resident at Rue Terre-neuve, No. 25, Brussels.—Dated 5th July, 1859.

1607. Louis Schwartzkopff, of Berlin, and Ferdinand Carl Philippson, of Dusseldorf, for an invention of "Improvements in steam hammers, and in machines for cutting files, and for planing and grooving iron, stone, and other substances."—Dated 6th July, 1859.

1618. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in knitting frames."—A communication from abroad by Jules Nicholas Poirret, of Troyes, France, Mechanician.—Dated 7th July, 1859.

1664. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "Improvements in the manufacture of shot and shell and other projectiles."— Dated 14th July, 1859.

1665. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "A new or improved manufacture of certain metallic compounds or alloys."—Dated 14th July, 1859.

1674. Robert Mushet, of Coleford, in the county of Gloucester, Metallurgist, for an invention of "New or improved methods of manufacturing a certain metallic compound or alloy."—Dated 15th July, 1859.

1707. The Right Honorable James Earl of Caithness, of Hill Street, in the county of Middlesex, for an invention of "Improvements in the permanent way of railways."—Dated 20th July, 1859.

2069. Edward Jones Mallett, of the city of New York, but now Commercial Agent of the United States at Florence, in Italy, for an invention of "Improvements in axles."—Dated 10th September, 1859.

2251. John Thompson, of Witton, near Northwich, Cheshire, and John Thompson, the younger, of Castle Northwich aforesaid, for an invention of "The manufacture of salt by an improved and more economical mode."—Dated 5th October, 1859.

2411. Thomas Symes Prideaux, of Willow House, Hampstead, and 32, Charing Cross, Civil Engineer, for an invention of "Improvements in the construction of ships and rafts."—Dated 21st October, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 10th December*, 1859, *inclusive.*)

8th December.

2915. Thomas Vicars, senior, Thomas Vicars, junior, and Thomas Ashmore, all of Liverpool, in the county Palatine of Lancaster, Engineers, and James Smith, of the same place, Baker, for an invention of "Improvements in the manufacture of biscuits, lozenges, and other like articles of confectionary."—Dated 9th December, 1856.

2916. Thomas Peake, of Abbey Street Mill, Derby, in the county of Derby, for an invention of "Certain improvements in the manufacture of chenille and other piled fabrics."—Dated 9th December, 1856.

2936. Thomas Wheatley, of Openshaw, near Manchester, in the county of Lancaster, Engineer, and William Wheatley, of the same place, Pattern Maker, for an invention of "Improvements in fog signals, and in the means of working the same."—Dated 11th December, 1856.

9th December.

2926. William Storey, and Thomas Storey, of the town and county of Lancaster, Manufacturers of Oil Cloth and Table Covers, for an invention of "Improvements in forming ornamenta devices on the surface of paper and certain prepared woven fabrics."—Dated 10th December, 1856.

2977. Edwin Heywood, of Sutton Cross Hills, near Leeds, Designer, for an invention of "Improvements in machinery or apparatus used in weaving."—Dated 16th December, 1856.

10th December.

2957. Henry Pease, of Pierremont, near Darlington, Esquire, and Thomas Richardson, of Newcastle-on-Tyne, Chemist, for an invention of "Improvements in the manufacture of compounds of alumina."—Dated 12th December, 1856.

3004. François Donny, Professor of Chemistry, of the city of Ghent, in the kingdom of Belgium, for an invention of "Improvements in the manufacture of lamps."—Dated 18th December, 1856.

3059. Cromwell Fleetwood Varley, of 2, Gloucester Terrace, St. Paul's Road, Islington, in the county of Middlesex, Telegraphic Engineer, for an invention of "Improvements in electric telegraphs."—Dated 24th December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 10th December*, 1859.)

219. John Scott Russell, of Great George Street, Westminster, in the county of Middlesex, for an invention of "Improvements in constructing ships and vessels propelled by screw or such like propeller."—Dated 28th January, 1853.

ALL FOREIGN and COLONIAL PATENT LAWS and RULES, being translations or copies of Official Communications, may be found in the following Numbers of this Journal, published at 2*d.* each, or 3*d.* free by post:—

Austria, No. 291.
Bavaria, No. 262.
Belgium, Nos. 292 and 348.
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Cuba, No. 498.
Dutch West Indies, No. 322.
France, No. 228.
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Russia, Nos. 334 and 508.
Sardinia, Nos. 233 and 235.
Saxony, No. 236.
Sicilies (the Two), No. 316.
Spain, No. 323.
Sweden, Nos. 327 and 354.
Victoria, Nos. 186 and 359.
Wurtemberg, No. 314.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

41,159. WARNE, FANSHAWE, JAQUES and GALPIN, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improved compounds applicable for packing the joints of steam or other pipes, which compounds are also applicable for packing or lining parts of machinery in general, or parts of ships, bridges, tanks, or railways."—Dated 27th May, 1859.—(English Patent, 25th April, 1859.)

41,160. WITASSE, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A system of folding tables."—Dated 28th May, 1859.

41,161. ARNAUD-RIBAUD, of Grenoble, département de l'Isère, for "A sewing machine for obtaining whip-stitches, or helicoidal stitches."—Dated 11th June, 1859.

41,162. AUGÉ, of Auxerre, département de l'Yonne, for "An apparatus for making trellis work."—Dated 10th June, 1859.

41,163. BENOIT, of Luneray, département de la Seine Inférieure, Paris, for "Common seamless sacks."—Dated 9th June, 1859.

41,164. BICHET and MILLERAND, domiciled with the former, of 17, Rue du Mont-Ste.-Marie, Besançon, for "A portable horizontal machine with a double action, for pressing hay and straw."—Dated 14th June, 1859.

41,165. BLESSING, of 15, Rue de la Croix-de-Fer, Rouen, for "A railway break."—Dated 14th June, 1859.

41,166. BOREL, of 10, Quai de l'Ecole, Paris, for "Applying processes for preserving wood to garden seats, &c."—Dated 31st May, 1859.

* For the French Patent Law see No. 228 of this Journal.

41,167. BOUDIN, of Aix-en-Othe, département de l'Aube, for "A loom for making ribbed fabrics."—Dated 11th June, 1859.

41,168. BOYER, of Grenoble, département de l'Isère, for "A bracelet with goffered foldings applicable to all kinds of skin gloves."—Dated 9th June, 1859.

41,169. CHARBONNIER, of 38, Rue St. Laurent, Epernay, département de la Marne, for "A machine for working sparkling wines."—Dated 14th June, 1859.

41,170. CLAUDIN, of 1, Rue Joquelet, Paris, for "Improvements in safety pin-covers of revolvers."—Dated 28th May, 1859.

41,171. CUSSET, of Givors, département du Rhône, for "A system of paddles for steam boats."—Dated 11th June, 1859.

41,172. DREYSSÉ, of Saverne, département du Bas-Rhin, for "Converting guns with ramrods into Lefaucheux' guns."—Dated 6th June, 1859.

41,173. DUCROT, of 9, Boulevart de Strasbourg, Paris, for "Bird fans."—Dated 30th May, 1859.

41,174. DUFOUR, of 6, Rue Sala, Lyon, for "A harvesting and mowing machine."—Dated 11th June, 1859.

41,175. DUMONTIER, of Place Lécalier, Elbeuf, département de la Seine Inférieure, for "An apparatus for rescuing persons from apparent death." Dated 15th June, 1859.

41,176. FAURE and QUINART, of Revin, département des Ardennes, for "Manufacture of convex nails, &c."—Dated 14th June, 1859.

41,177. GRIEUX, of 7, Rue du Champs-des-Oiseaux, Rouen, for "A force and lift pump worked by means of compressed air."—Dated 11th June, 1859.

41,178. GROSS, of 41, Rue Planche-Clément, Troyes, département de l'Aube, for "Improvements in chaff-cutting machines."—Dated 11th June, 1859.

41,179. GRUBERT, of 49, Rue Grande-Tannerie, Troyes, département de l'Aube, for "A machine for boring boxes of carriage-wheels."—Dated 11th June, 1859.

41,180. GUIGUES, of 27, Rue Cerrusse, Marseille, for "A machine for raising water by means of an hydraulic motor with a continuous movement."—Dated 4th June, 1859.

41,181. HAREL, of 80, Rue Lafayette, Rouen, for "An endless double screw movement of rudders."—Dated 9th June, 1859.

41,182. LEMESRE, of Roubaix, département du Nord, for "A copping and winding frame."—Dated 11th June, 1859.

41,183. MALLARD, of 29, Rue Belon au Mans, département de la Sarthe, for "Means of facilitating the opening of boxes containing preserved food by means of common knives."—Dated 14th June, 1859.

41,184. MARCHAND, of La Chappelle, St. Ursin, département du Cher, for "Invariable registering levels without telescopes or sights."—Dated 8th June, 1859.

41,185. MARTEL-DELESPIERRE and DE CAPOL, jun., the former of Roubaix, the latter at Haze-

brouck, département du Nord, for "Spinning waste of flax, &c."—Dated 11th June, 1859.

41,186. De Mollinedo-y-Garratala, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of clocks, &c."—Dated 30th May, 1859.

41,187. Mourot, of 112, Rue de Paris, Belleville, département de la Seine, for "An apparatus for charging fuel from below in baking ceramic pastes."—Dated 30th May, 1859.

41,188. Roche, represented by Protat, of Mâcon, for "Means of utilizing the residue of lime obtained by neutralizing schist-oil, petroleum, bog-head, &c."—Dated 13th June, 1859.

41,189. Rolin, Attignéville, département des Vosges, for "A system for protecting apartments from smoke."—Dated 10th June, 1859.

41,190. Salomon-Cohen, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A machine for moulding earth and other plastic substances."—Dated 30th May, 1859.

41,191. Samier and Frantz, the former of 28, Quai d'Orléans, the latter of 27, Rue St. Louis-en-l'Ile, Paris, for "Applying mineral schist to candles."—Dated 30th May, 1859.

41,192. Schinz, domiciled with Woehrlin, of Rue de la Nuée-Bleue, Strasbourg, for "A system of furnaces for smelting glass."—Dated 7th June, 1859.

41,193. Thompson, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "A so-called 'Indestructible frame of petticoats with double expansion.'"—Dated 30th May, 1859.—(English Patent, 21st September, 1858.)

41,194. Ansot and Malezieux, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Regulators of marine engines for screw and other vessels."—Dated 4th June, 1859.

41,195. Ayraud, represented by Collevlle, of 28, Rue Bergère, Paris, for "A distilling apparatus."—Dated 31st May, 1859.

41,196. Billon, of 9, Rue Louis-le-Grand, Paris, for "A boat provided with a propeller, having rectilinear jointed paddles."—Dated 4th June, 1859.

41,197. Billon, of 9, Rue Louis-le-Grand, Paris, for "A generator with a concentric fire."—Dated 4th June, 1859.

41,198. Blethyn, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the manufacture of fuel."—Dated 1st June, 1859.—(English Patent, 11th November, 1858.)

41,199. Boutet, with Borgal, of 15, Rue Cardinal-Lemoine, Paris, for "A mechanical mill."—Dated 31st May, 1859.

41,200. Carpentier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in buttons for fastening collars, cravats, &c."—Dated 6th June, 1859.

41,201. Charles Pirotte and Co., represented by Sautter, of 14, Boulevart Montmartre, Paris, for "A system of smoke-consuming grates, with longitudinal gradients."—Dated 4th June, 1859.

41,202. Chauvin and Bahic, domiciled 3, Rue de Grenelle St. Honoré, Paris, for "Filigrane paper."—Dated 31st May, 1859.

41,203. Cocker and Fox, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of steel and iron wire and steel sheets and bands."—Dated 31st May, 1859.—(English Patent, 12th November, 1858.

41,204. The Blanzy Coal Company, represented by Vannaisse, of 10, Rue de la Chaussée d'Antin, Paris, for "Manufacture of conglomerated coal from coal dust and common resin."—Dated 6th June, 1859.

41,205. D'Argy, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A self-acting apparatus for opening and closing curtains."—Dated 1st June, 1859.

41,206. Delabarre, of 1, Rue des Huissiers-Neuilly, for "Improvements in manufacturing and preserving food."—Dated 1st June, 1859.

41,207. Gibson, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of working rudders of vessels."—Dated 4th June, 1859.—(English Patent, 23rd April, 1859.)

41,208. Glover, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A machine for cutting files."—Dated 4th June, 1859.

41,209. Gontier, of 16, Rue de Charonne, Belleville, for "Tournure petticoats, with jointed hoops."—Dated 3rd June, 1859.

41,210. Harfield, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in capstans."—Dated 31st May, 1859.—(English Patent, 23rd August, 1858.)

41,211. Jardin, of 46, Rue de la Victoire, Paris, for "Improved shirts."—Dated 3rd June, 1859.

41,212. Langlois, jun., of 20, Grande Rue, Passy, for "A kind of chimney."—Dated 3rd June, 1859.

41,213. Lavigne, of 14, Impasse St. Laurent, Belleville, for "A clyster."—Dated 4th June, 1859.

41,214. Nepven, of 15, Rue de La Bruyère, Paris, for "A crane, with a lattice beam."—Dated 4th June, 1859.

41,215. Pains, of 2, Rue d'Amsterdam, Paris, for "A process for rendering tissues, paper, &c., and textile and woody substances in general, fire and waterproof."—Dated 4th June, 1859.

41,216. Paquet, of Cité des Fleurs, Batignolles, for "Manufacture of artificial flowers, &c."—Dated 4th June, 1859.

41,217. Pasquay, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in manometers."—Dated 4th June, 1859.

41,218. Peltereau, jun., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for drawing and smoothing leather."—Dated 6th June, 1859.

41,219. Polton, of Courbevoie, for "A kind of manure."—Dated 31st May, 1859.

41,220. Pradaut and Renon, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Oxalolygraphy on porcelain and other ceramic

substances, and using the same for imitating gold articles."—Dated 1st June, 1859.

41,221. PRÉVOST, of 27, Rue du Faubourg du Temple, Paris, for "A kind of cartridges."—Dated 6th June, 1859.

41,222. SAMPSON, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the means of propelling vessels."—Dated 3rd June, 1859.

41,223. SEEGERS, of 83, Rue du Temple, Paris, for "An American mode of printing leather canvass."—Dated 4th June, 1859.

41,224. TRENLAY, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Manufacture of shovels for bakers."—Dated 4th June, 1859.

41,225. TURCK, of 73, Batignolles, for "A self-acting compensating break applicable to all carriages."—Dated 3rd June, 1859.

41,226. APPIETTO, jun., domiciled with Multedo, of Ajaccio, Corsica, for "An expeditious lithographic press."—Dated 15th June, 1859.

41,227. BOTTA, of 122, Boulevart Mont Parnasse, Paris, for "A direct mode of returning steam to generators."—Dated 4th June, 1859.

41,228. BOUTEGNOY, of 23, Quai St. Michel, Paris, for "Improvements in apparatus for cleaning corn."—Dated 8th June, 1859.

41,229. BROUTIN, of 35, Rue du Curé St. Sauveur, Lille, for "A machine for making balls of thread."—Dated 20th June, 1859.

41,230. COQUENHEM and Co., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in fastening hoops of petticoats, &c."—Dated 6th June, 1859.

41,231. COURTEAUX and DENEUCHATELLE, of 32, Rue des Vinaigriers, Paris, for "Fastenings of game pouches and other articles."—Dated 25th May, 1859.

41,232. CRABATHI and FEUGEAS, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Renaissance portemonnaies."—Dated 8th June, 1859.

41,233. DESBIEF, of 34, Saint Etienne, département de la Loire, for "Modifications in puddling pig-iron for obtaining iron or steel."—Dated 18th June, 1859.

41,234. DUMAS, of l'Isle-Jourdain, département du Gers, for "A hand pump."—Dated 15th June, 1859.

41,235. FAURE, of 10, Rue Maître-Albert, Paris, for "A case called 'Roller.'"—Dated 8th June, 1859.

41,236. FLORY, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in mechanical suspension."—Dated 8th June, 1859.

41,237. FORRETTE, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A machine for finishing paper and cards, and for various other purposes."—Dated 7th June, 1859.

41,238. GAUCHER, represented by Ozi, of 150, Rue de Rivoli, Paris, for "An apparatus for preventing fires in fodder."—Dated 17th June, 1859.

41,239. GÉRARD, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Apparatus and means of projecting light."—Dated 7th June, 1859.

41,240. GÉRARD and CARDINET, of 24, Rue du Grand St. Michel, Paris, for "Improvements in sewing machines."—Dated 6th June, 1859.

41,241. GIRAUD, of Bourg, département de l'Ain, for "A system of agricultural weighing machine."—Dated 18th June, 1859.

41,242. INCQUEAU, domiciled with Desgoffe, of 16, Rue de Port-Royal, Paris, for "A self-acting signal mast."—Dated 8th June, 1859.

41,243. LAURA, of 8, Rue Montée de Notre Dame, Marseilles, for "A so-called 'Franco-italica lamp.'"—Dated 6th June, 1859.

41,244. LEROY, of Douai, département du Nord, for "A taking-up rake worked by horse power."—Dated 18th June, 1859.

41,245. MARIÉ, of 52, Cité des Fleurs, Batignolles, for "A battery worked by means of salt of mercury."—Dated 7th June, 1859.

41,246. MOLOZAY, of 68, Rue d'Angoulême du Temple, Paris, for "Terry velvet with empty ribs."—Dated 7th June, 1859.

41,247. MONIER, of Aubagne, département des Bouches du Rhône, for "Oriental vases of baked earth."—Dated 11th June, 1859.

41,248. PERRIER and PENDARIÈS, of 88, Boulevart Mérentié, Marseilles, for "A machine for cutting matches and putting them into presses."—Dated 11th June, 1859.

41,249. PICARD, domiciled with Maillard, of 150, Rue de Rivoli, Paris, for "Substituting metallic soles for leather soles."—Dated 8th June, 1859.

41,250. PLANÇON, of 30, Rue Moret, Paris, for "A kind of buttons."—Dated 7th June, 1859.

41,251. RONNA, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in extracting salt from sea-water and salt springs."—Dated 6th June, 1859.

41,252. ROUSSEAU, BITTERLIN, jun., and MUSSON, the former of 9, Rue de l'Ecole de Médecine, the second of 56, Rue de l'Ouest, and the latter of 36, Rue de Chaillot, Paris, for "A mode of engraving silicate for obtaining such designs, engravings on paper, tissues, leather, &c., as were hitherto obtained by engravings on wood, steel, copper, bronze, zinc, &c."—Dated 7th June, 1859.

41,253. ROUSSELOT, of 2, Rue de l'Etape, Reims, for "A filter coffee pot."—Dated 18th June, 1859.

41,254. SCHMITT, of Romanswiller, département du Bas-Rhin, for "Manufacture of porcelain marbles."—Dated 3rd June, 1859.

41,255. THIÉBAUT, of Saint Quentin, département de l'Aisne, for "A cast-iron twyer with a reservoir of air."—Dated 16th June, 1859.

41,256. VIAN, of 2, Rue de Breteuil, Marseilles, for "A paint for protecting sheet-iron and other vessels from oxidation."—Dated 14th June, 1859.

41,257. BARRE, of 27, Rue de Penthièvre, Paris, for "Manufacture of inlaid veneers."—Dated 11th June, 1859.

41,258. Berendorf, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for working leather against the hair."—Dated 11th June, 1859.

41,259. Billard, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in stays and belts, with or without seams."—Dated 9th June, 1859.

41,260. Boigeol, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of twisting and continuously winding filamentous substances."—Dated 9th June, 1859.

41,261. Bonju, of 13, Rue Grenier St. Lazare, Paris, for "Improvements in pocket inkstands."—Dated 9th June, 1859.

41,262. Brasseur-Thuillier, of Amiens, for "Rolled iron for locksmiths' works."—Dated 16th June, 1859.

41,263. Chéron and Sole, the former of 34, Rue du Centre, Charonne, the latter of La Villette, for "A process for increasing the power of engines."—Dated 10th June, 1859.

41,264. Cloet, of 7, Chemin de Lalage, Courbevoie, for "An apparatus for treating rice, pearl-barley, and other grains."—Dated 8th June, 1859.

41,265. Corboran, of Rue de Flandre, La Villette, for "A machine for moulding and pressing coal."—Dated 11th June, 1859.

41,266. Forbras, of 35, Rue de Rambuteau, Paris, for "Applying a kind of inlaid work to brushes."—Dated 9th June, 1859.

41,267. Tournier, of 84, Rue Rochechouart, Paris, for "A submarine mode of propelling steam-boats."—Dated 10th June, 1859.

41,268. Gallé, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of advertizing."—Dated 10th June, 1859.

41,269. Hirsch-Labin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mechanism applicable to various musical instruments."—Dated 9th June, 1859.

41,270. Janton, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of heels of foot coverings."—Dated 11th June, 1859.

41,271. Lechien, domiciled at 15, Rue des Marais St. Germain, Paris, for "An oleo-pneumatic moderator lamp,"—Dated 11th June, 1859.

41,272. Marchal, represented by Mathieu, of 45 Rue St. Sébastien, Paris, for "A process and apparatus for classifying solid substances, such as ores, sand, clay, earth, grain, &c., according to their specific weight, by means of an air-current from below."—Dated 11th June, 1859.

41,273. Miane, of 4, Rue Beausire, Paris, for "A kind of stirrup."—Dated 10th June, 1859.

41,274. Negrel and Trouvé, of 4, Quai des Orfèvres, Paris, for "A lady's companion."—Dated 9th June, 1859.

41,275. Nevill, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of steel and iron."—Dated 8th June, 1859.—(English Patent, 26th May, 1859.)

41,276. Papelard, of 1, Avenue des Tilleuls, Montmartre, for "A mode of paving streets."—Dated 11th June, 1859.

41,277. Parant, of 39, Cité Veron, Montmartre, for "An inodorous mode of emptying cesspools."—Dated 11th June, 1859.

41,278. Peltereau, jun., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for working hides against the hair."—Dated 11th June, 1859.

41,279. Richards, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of gas-meters."—Dated 9th June, 1859.—(English Patent, 26th November, 1858.)

41,280. Schroder, of 53, Rue Vivienne, Paris, for "Reviving animal charcoal."—Dated 10th June, 1859.

41,281. Scriba, jun., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A game pouch and purse."—Dated 9th June, 1859.

41,282. Sibbald, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in steam boilers and other vessels."—Dated 9th June, 1859.

41,283. Spencer, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A self-acting railway switch."—Dated 11th June, 1859.

41,284. Vangeneberg, of 12, Passage Fauvel, La Chapelle St. Denis, for "A moveable sawing machine."—Dated 9th June, 1859.

41,285 Verdier, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in ploughs."—Dated 9th June, 1859.

41,286. Viard, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of stereoscopes."—Dated 11th June, 1859.

41,289. Wilbien, jun., and Co., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Keeping sparkling champagne wines in syphon bottles."—Dated 9th June, 1859.

41,288. Wulveryck and Conturié, of 13, Rue du Mail, Paris, for "Improvements in machines for printing woollen fabrics."—Dated 11th June, 1859.

41,289. Alfraise, of Grenoble, for "A machine for breaking hemp, flax, and bark of lime trees."—Dated 22nd June, 1859.

41,293. Basset, of Denain, département du Nord, for "Anti-heat coatings."—Dated 23rd June, 1859.

41,291. Berger, of Saint Laurent de Chamousset, département du Rhône, for "A mechanical spring motor."—Dated 21st June, 1859.

41,292. Bohmé and Allart-Dacheux, of St. Quentin, département de l'Aisne, for "A chemical product called 'Anti-calcareous strum.'"—Dated 25th June, 1859.

41,293. Boudou, of Mazamet, département du Tarn, for "Shamoy cloth."—Dated 24th June, 1859.

41,294. Boudou, of Mazamet, département du Tarn, for "A machine for Shamoy dressing."—Dated 24th June, 1859.

41,295. Chambeyron, of La Rochelle, for "A farming compendium."—Dated 18th June, 1859.

41,296. Charin, Brothers, of Valencia, département de la Drôme, for "Improvements in machines for making wedges for rails of railways."—Dated 18th June, 1859.

41,297. Deboves, of Charmes, département de l'Aisne, for "A machine for facing bricks."—Dated 24th June, 1859.

41,298. Delaharpe, jun., of Tarare, département du Rhône, for "A machine for drawing tissues, for unstiffening them, &c."—Dated 24th June, 1859.

41,299. Duplay and Lachaise, of 23, Rue de Roanne, St. Etienne, département de la Loire, for "A system of rolling mills, tyres of railway carriages and locomotives worked by hydraulic pressure."—Dated 20th June, 1859.

41,300. Fessol, of Châlons-sur-Saône, for "A system of twyers of forges."— Dated 22nd June, 1859.

41,301. Gardner, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in machines for bending out or shaping vamps of boots." — Dated 11th June, 1859.— (English Patent, 9th April, 1859.)

41,302. Godard, of 98, Quai de la Fosse, Nantes, for "A churn."—Dated 17th June, 1859.

41,303. Hamelle, of Sains, département de l'Aisne, for "A cleaning apparatus."—Dated 21st June, 1859.

41,304. Hartmann, of Mulhouse, for "Colours for printing cotton, silk, &c." — Dated 21st June, 1859.

41,305. Hernandez, of 177, Rue Fondaudège, Bordeaux, for "Manufacture of bricks."—Dated 18th June, 1859.

41,306. Imbs, of the 6th Regiment of Pontoon Artillery, Strasbourg, for "A kind of spurs for cavalry."—Dated 10th June, 1859.

41,307. Jannesse and Castillon, of 5, Rue Tour de Gassies, Bordeaux, for "A railway break."—Dated 23rd June, 1859.

41,308. De La Salle de Rochemaure, of Rue du Belvéder, Tours, for "Fastenings of despatch-bags."—Dated 21st June, 1859.

41,309. Laurent, of 50, Rue du Chemin Saint Genès, Bordeaux, for "A smoke-consuming apparatus of locomotives."—Dated 22nd June, 1859.

41,310. Leclercq, of Trith St. Léger, département du Nord, for "Iron cross railway chairs."—Dated 24th June, 1859.

41,311. Levent, Silver, and Co., of Bavai, for "A system of matrices."—Dated 27th June, 1859.

41,312. Lombard, of Route de St. Chamond, St. Etienne, département de la Loire, for "Applying registering apparatus to machines employed in purifying mineral food."—Dated 21st June, 1859.

41,313. Lombard, of Route de St. Chamond, St. Etienne, département de la Loire, for "A process for conglomerating small fuel."—Dated 21st June, 1859.

41,314. Macé, of 5, Rue Neuve St. Augustin, Paris, for "A kind of stay."—Dated 11th June, 1859.

41,315. Micaud, of Teil, département de l'Ardèche, for "A machine for crushing refractory earth and rendering sand impalpable."—Dated 21st June, 1859.

41,316. Plouchart, of Vertain, département du Nord, for "A ploughing implement."—Dated 27th June, 1859.

41,317. Regonard, of Albi, département du Tarn, for "An hydraulic apparatus."—Dated 24th June, 1859.

41,318. Roman, of 7, Rue Laurencin, Lyons, for "An hydraulic machine." — Dated 20th June, 1859.

41,319. Sagett, of Joigny, département de l'Yonne, for "A so-called 'Urbimètre chemin de fer' for making surveys in laying out towns and villages." —Dated 17th June, 1859.

41,320. Secrétan and Still, of Medeah, Algeria, for "An hydraulic wheel worked by means of compressed air."—Dated 8th June, 1859.

41,321. Selckinghaus, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Frames of spring petticoats."—Dated 11th June, 1859.

41,322. Abate, of 7, Avenue St. Ouen, Batignolles, for "Improvements in the manufacture of artificial stones."—Dated 18th June, 1859.

41,323. Bérard, of 323, Rue St. Denis, Paris, for "Applying colours on tissues and paper coated by means of collodion."—Dated 16th June, 1859.

41,324. Berton, of 41, Rue Dauphine, Paris, for "A motive-wheel with jointed paddles."— Dated 16th June, 1859.

41,325. Borel, of 76, Rue Vieille du Temple, Paris, for "A machine for preparing steel for the manufacture of springs."—Dated 18th June, 1859.

41,326. Cart, of 3, Rue de Reuilly, Paris, for "A vertical sawing machine for cutting straight and bent wood."—Dated 17th June, 1859.

41,327. Cavoret, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Furniture made of bamboo or imitation of bamboo."—Dated 16th June, 1859.

41,328. Chevolot, jun., of 13, Rue de Ménilmontant, Paris, for "An oil-can for lubricating machines."—Dated 14th June, 1859.

41,329. Coen, alias Albitès-Coen, of 34, Rue Vivienne, Paris, for "Improvements in photography."—Dated 4th June, 1859.

41,330. Conseil, represented by Petyt, of 6, Rue d'Angoulême du Temple, Paris, for "Insubmersive apparatus."—Dated 14th June, 1859.

41,331. Demarche, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Artificial incrustations of furniture."—Dated 16th June, 1859.

41,332. Drechou, of Montbron, département de la Charente, for "A machine for holding and piercing pieces of leather to be stitched without using awls, chisels, or punches."—Dated 23rd June, 1859.

41,333. Fletcher and Williamson, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Feeding furnaces with hot-air."—Dated 16th May, 1859.

41,334. Foster, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in machinery or apparatus, called 'Spinning frames' and 'Roving frames,' employed for spinning and roving flax, tow, hemp, jute, and other fibrous substances."—Dated 14th June, 1859.—(English Patent, 18th January, 1859.)

41,335. Gambardella, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Obtaining and applying a motive power produced without fuel."—Dated 17th June, 1859.—(English Patent, 31st May, 1859.)

41,336. Girard, of 2, Rue de la Ville l'Evêque, Paris, for "A stamping apparatus with an air-current."—Dated 18th June, 1859.

41,337. Gourmont, Brothers, domiciled with Cousin-Buchet, of 307, Rue St. Denis, Paris, for "A boiler for brewing beer."—Dated 17th June, 1859.

41,338. Hurel, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Dyeing waste wool of cloth, carpets, &c."—Dated 17th June, 1859.

41,339. Jiudissé, of 180, Rue St. Dominique, Paris, for "Manufacture of artificial marble."—Dated 14th June, 1859.

41,340. Kaufmann, represented by Amouroux, of 333, Rue St. Martin, Paris, for "An American porte-monnaie with an interior purse."—Dated 17th June, 1859.

41,341. Lahaut, of 90, Chaussée de Ménilmontant, Belleville, for "A centrifugal apparatus for the manufacture of vinegar."—Dated 16th June, 1859.

41,342. Eugène Lebée and Rousseau, represented by Mérienne, of 3, Rue St. Fiacre, Paris, for "A model clasp."—Dated 17th June, 1859.

41,343. Leven, sen. and jun., of 10, Rue St. Hippolyte, Paris, for "Manufacture of legs, vamps, &c., of patent leather."—Dated 15th June, 1859.

41,344. Madray, of 5, Rue du Dragon, Paris, for "A sewing machine."—Dated 15th June, 1859.

41,345. Manby, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in furnaces and apparatus for annealing metal wire."—Dated 14th June, 1859.

41,346. Mary and Ducreux, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in closing and opening shops, doors, windows, &c."—Dated 14th June, 1859.

41,347. Motte, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Manufacturing and refining sugar without using animal charcoal or animal blood."—Dated 14th June, 1859.

41,348. Mousseron, of 9, Rue du Faubourg St. Denis, Paris, for "A kind of glasses for gas-burners and lamps."—Dated 14th June, 1859.

41,349. Ollion, of 33, Rue Neuve St. Eustache, Paris, for "A kind of transparent paper, called 'Crystal paper.'"—Dated 17th June, 1859.

41,350. Pellerin, represented by Marcillac, of 31, Rue St. Louis, Paris, for "An engine for vessels with two screws, provided with couplings whereby the two arbors may obtain an identically equal angular speed and a continuous circular movement in an opposite direction."—Dated 14th June, 1859.

41,351. Ringuet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An improved head, with an eccentric telescope for astronomical, optical, and other instruments."—Dated 15th June, 1859.

41,352. Wadsworth, represented by Rowland, of 224, Rue de Rivoli, Paris, for "Moveable or adjustable heels of boots or shoes and spurs belonging thereto."—Dated 14th June, 1859.—(English Patent, 13th November, 1858.)

41,353. Wiart, of 4, Rue des Quartre Fils, Paris, for "A continuous wick in burners, having a double air-current."—Dated 18th June, 1859.

41,354. Aubrée and Guillemain, of Burie, département de la Charente Inférieure, for "A fire-escape."—Dated 15th June, 1859.

41,355. Bérard, of 16, Passage des Petites Ecuries, Paris, for "Cannons."—Dated 20th June, 1859.

41,356. Bonnet, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Fumigating apparatus."—Dated 21st June, 1859.

41,357. Boubès, jun., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in roman pavements."—Dated 18th June, 1859.

41,358. Bourgneil, of 11, Rue des Filles du Calvaire, Paris, for "A cork screw and fashionable wimble."—Dated 20th June, 1859.

41,359. Chemallié sen., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Compressing timber for the manufacture of wheels of carriages, &c."—Dated 18th June, 1859.

41,360. Chenaillier, Cherpitel, and Ménage, the former of 16, Rue des Petites Ecuries, Paris, and the latter two of Belleville, for "A kind of photographic diorama."—Dated 18th June, 1859.

41,361. Dagron, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A small microscope with stereoscopic effects for examining pictures, insects, flowers."—Dated 21st June, 1859.

41,362. Dallas, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in horses' collars."—Dated 18th June, 1859.

41,363. Deschamps, of 49, Rue de Montmorency, Paris, for "Improvements in buckles."—Dated 18th June, 1859.

41,364. Dierickx, of Hôtel des Monnaies, Paris, for "Improvements in the manufacture of coin, and especially in adjusting planchets of gold and silver of all modules."—Dated 18th June, 1859.

41,365. Duplay and Vidal, the former of 23, Rue du Roanne, the latter of Lieu de la Chaléassière, St. Etienne, for "Manufacture of tyres of steel and iron, of steel, and of iron."—Dated 9th May, 1859.

41,366. Figuière, of 98, Route d'Italie, Commune de Gentilly, département de la Seine, for "A means of preventing collisions on railways."—Dated 21st June, 1859.

41,367. Follian, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the suspension of lamps, &c."—Dated 19th June, 1859.

41,368. Gueyton, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Enamelling articles of jewelry, furniture, &c."—Dated 18th June, 1859.

41,369. Mallat, of 7, Rue Charlotte, Paris, for "Improvements in the manufacture of letter scales."—Dated 18th June, 1859.

41,370. Martin, of 10, Place de la Cité Napoléon, Lyon, for "A machine for making wires coated with silk and cotton for modes."—Dated 28th June, 1859.

41,371. Marulaz, of 58, Rue de la Ferme des Mathurins, Paris, for "A system of combs."—Dated 21st June, 1859.

41,372. Meurisse and Comber, of Lille, for "A machine for ironing linen."—Dated 30th June, 1859.

41,373. Mushet, represented by Regnaud, of Villa Montmorency, Anteuil, for "Manufacture of cast steel."—Dated 20th June, 1859.—(English Patent, 16th December, 1858.

41,374. Mushet, represented by Regnaud, of Villa Montmorency, Anteuil, for "Improvements in the manufacture of cast steel."—Dated 30th June, 1859.—(English Patent, 22nd December, 1858.)

41,375. Newberry, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A machine for screw-cutting nuts, screws, and bolts."—Dated 20th June, 1859.—(English Patent, 9th September, 1858.)

41,376. Perot and Wilbien, the former of 76, Rue de Sèvres, Vaugirard, the latter of 83, Rue de Grenelle St. Germain, Paris, for "Purifying and filtering oil and other fat substances."—Dated 20th June, 1859.

41,377. Pierre, of 43, Rue de Montmorency, Paris, for "Slides with facets for bedsteads."—Dated 18th June, 1859.

41,378. Pim, of 32, Rue Sedaine, Paris, for "So-called 'Parisian folding chairs.'"—Dated 20th June, 1859.

41,379. Poullain, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Buckles with fixed thongs."—Dated 18th June, 1859.

41,380. Simon, domiciled with Castelbon, of 15, Passage des Petites Ecuries, Paris, for "An artificial stone called 'Zeio-delite,' for superseding lead, lime, &c."—Dated 21st June, 1859.

41,381. Theaux and Vignolle, the former of 12, Rue de la Boucherie des Invalides, the latter of 65, Rue du Faubourg St. Honoré, Paris, for "A kind of liqueur."—Dated 20th June, 1859.

41,382. Viarnaud, of 12, Cour du 30 Juillet, Bordeaux, for "Portable baths."—Dated 25th June, 1859.

41,383. Wild, of 41, Rue St. Nicolas, Nancy, for "Palm-tree brushes."—Dated 27th June, 1859.

41,384. Armengaud, jun., represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process for superseding in many cases the distillation and rectification of fat substances, essences, or oils."—Dated 22nd June, 1859.

41,385. Bacot, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Castors for furniture."—Dated 25th June, 1859.

41,386. Barre, Brothers, of 27, Rue de Penthièvre, Paris, for "A mode of embossing metals by means of impressions."—Dated 24th June, 1859.

41,387. Barre, Brothers, of 27, Rue de Penthièvre, Paris, for "A mode of punching metals by means of impressions."—Dated 24th June, 1859.

41,388. Batier, of 10, Rue de Chastillon, Paris, for "A process for gilding porcelain."—Dated 23rd June, 1859.

41,389. Berthelemy, of 89, Rue Neuve des Petits Champs, Paris, for "A railway break."—Dated 23rd June, 1859.

41,390. Bouasse, sen., of 29, Rue St. Sulpice, Paris, for "Copybooks containing models of writing and drawing."—Dated 25th June, 1859.

41,391. Caminade and Lemasson, the former of Rue aux Chiens, the latter of Rue d'Elbeuf, Rouen, for "A self-acting system of feeding steam boilers."—Dated 27th June, 1859.

41,392. Chesneau, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in paddle propellers and water wheels."—Dated 23rd June, 1859.

41,393. Choquet, of 12, Rond Point de l'Etoile, aux Thernes, département de la Seine, for "A process for cleaning metal."—Dated 27th June, 1859.

41,394. Cimeg, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process for silvering glass, mirrors, ceramic products, tissues, paper, leather, and all substances in general."—Dated 28th April, 1859.—(Austrian Patent, 28th April, 1858.)

41,395. Clark, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in safety blocks for lowering boats from vessels, or for similar purposes."—Dated 23rd June, 1859.—(English Patent, 12th April, 1859.)

41,396. Delcoigne, represented by Fringant, of 10, Rue de Provence, Paris, for "A kind of canvass, being a substitute for woollen bags in pressing sugar."—Dated 27th June, 1859.

41,397. Delhomme, of 3, Rue Boutarel, Paris, for "Improvements in hoops of spring petticoats."—Dated 22nd June, 1859.

41,398. Delpech, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A mechanical process for oiling leather."—Dated 23rd June, 1859.

41,399. Dupont and Dreyfus, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Moulding projectiles and other hollow articles."—Dated 23rd June, 1859.

41,400. Garret, jun., and Kerridge, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for thrashing and cleaning corn."—Dated 23rd June, 1859.—(English Patent, 18th January, 1859.)

41,401. Gentil and Gateau, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A kind of cases, card-cases, cigar-cases, &c."—Dated 25th June, 1859.

41,402. Jolicoeur, of 38, Rue Dauphine, Paris, for "Ink for marking linen."—Dated 24th June, 1859.

41,403. Langlois, represented by Amouroux of 333, Rue St. Martin, Paris, for "An almanac medallion."—Dated 22nd June, 1859.

41,404. Laurent, of 10, Rue des Cinq-Moulins, La Chapelle St. Denis, département de la Seine, for "A product for making fermented beverage."—Dated 25th June, 1859.

41,405. Léonard, of 47, Rue de Malte, Paris, for "An electric indicator for cesspools and reservoirs."—Dated 2nd June, 1859.

41,406. Manceaux, represented by Maillard, of 25, Rue Montorgeuil, Paris, for "A system of cartridges."—Dated 25th June, 1859.

41,407. Pacot, of 6, Rue de la Fidélité, Paris, for "A toy."—Dated 25th June, 1859.

41,408. Parisod, domiciled with Gaulay, of 3, Rue des Fossés, St. Jacques, Paris, for "Improvements in the manufacture of fuel."—Dated 22nd June, 1859.

41,409. Parkes, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of pipes and cylinders of copper and copper alloys."—Dated 25th June, 1859.—(English Patent, 21st June, 1859.)

41,410. Pecaut, of 11, Rue de la Cerisaie, Paris, for "Applying photophors."—Dated 23rd June, 1859.

41,411. Riottot and Luquet, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A trinket-watch key combined with a pencil-case, tooth or nail pick, &c."—Dated 25th June, 1859.

41,412. Schlesinger, of 4, Rue Moret, Paris, for "An apparatus for making a light."—Dated 27th June, 1859.

41,413. Sturm, of 4, Rue Claude-Vellefaux, Paris, for "Improvements in the construction of kaleidoscopes."—Dated 22nd June, 1859.

41,414. Vacquerie, of Beauvais, for "Bleaching cotton for spinning."—Dated 29th June, 1859.

41,415. Vallois, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in clasps and mountings of books."—Dated 21st June, 1859.

41,416. Wadsworth, represented by Rowland, of 224, Rue de Rivoli, Paris, for "Improvements in gas burners and means and apparatus for lessening or regulating the outlet and pressure of gas, and improvements in street lamps, whereby they are protected from the action of wind or rain."—Dated 25th June, 1859.—(English Patent, 20th November, 1858.)

41,417. Baroulier and Micol, of 2, Rue Chantegrillet, St. Etienne, département de la Loire, for "A machine for compressing by means of a direct and steady pressure."—Dated 2nd June, 1859.

41,418. Bertin, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "A husking machine, being a substitute for thrashing machines."—Dated 27th June, 1859.

41,419. Bouillon, Muller, and Company, of 33, Rue de Chabrol, Paris, for "A washing apparatus."—Dated 28th June, 1859.

41,420. Bouillon, Muller, and Company, of 33, Rue des Chabrol, Paris, for "Portable and fixed boilers for economical, domestic, or industrial purposes."—Dated 28th June, 1859.

41,421. Boulanger, of 142, Faubourg St. Denis, Paris, for "A system of lamps."—Dated 29th purposes."—Dated 28th June, 1859.

41,422. Defond, of Cinq-Mars-la-Pile, département de l'Indre-et-Loire, for "An apparatus of baked earth for protecting vines from frost."—Dated 28th June, 1859.

41,423. Delperdange, domiciled of 55, Rue de Roubaix, Lille, for "Lamp with upper reservoirs."—Dated 4th July, 1859.

41,424. Denniee and Eybord, domiciled with the former, of 17, Rue du Chemin-de-Versailles, Paris, for "A washing machine."—Dated 27th June, 1859.

41,425. Desgenétais and Vatinet, of Bolbec, département de la Seine Inférieure, for "Improvements in weaving machines."—Dated 1st June, 1859.

41,426. Dubois, jun., of La Bastide St. Pierre, département de Tarn-et-Garonne, for "A thrashing machine."—Dated 29th June, 1859.

41,427. Dutreilh, of 6, Rue Guy de la Brosse, Paris, for "An apparatus for the manufacture of horse shoes."—Dated 30th June, 1859.

41,428. Ferrère, of 92, Rue Notre Dame, aux-Chartrons, Bordeaux, for "Oil skin for foot coverings."—Dated 2nd June, 1859.

41,429. De Gemini, of 59, Rue des Ecuries d'Artois, Paris, for "Working spirits."—Dated 27th June, 1859.

41,430. Gentilhomme, represented by Jacoby, of 4, Rue de Marengo, Paris, for "Enamelling jewellery."—Dated 27th June, 1859.

41,431. Gergères, of 1, Rue Ste. Gemme, Bordeaux, for "A process for protecting vines and plants from the injury of animals."—Dated 30th June, 1859.

41,432. Johnson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of boots, shoes, and other foot coverings, and in apparatus and means used thereat."—Dated 28th June, 1859.

41,433. Kingsford, domiciled with Trappes, of 12, Rue Godot-de-Mauroy, Paris, for "A propeller of vessels."—Dated 29th June, 1859.

41,434. Koehler, of Bitschwiller, département du Haut-Rhin, for "Cast-iron journals for grease boxes of axles of locomotives, tenders, and railway carriages."—Dated 28th June, 1859.

41,435. Lefebvre and Balard, of 279, Rue St. Honoré, Paris, for "Photographic prints on tissues."—Dated 28th June, 1859.

41,436. Lenoir, of 71, Rue du Château d'Eau, Paris, for "A needle-level, called 'Protractor.'"—Dated 30th June, 1859.

41,437. Letessier, of Boulevart St. Aignan, Nantes, for "A mowing and harvesting machine."—Dated 30th June, 1859.

41,438. Meissonier, of 19, Rue de Vendome, Paris, for "Colouring pure orchal."—Dated 28th June, 1859.

41,439. Membré, of 18 and 20, Rue Lamartine, Paris, for "Frames for mounting the canvass of paintings."—Dated 28th June, 1859.

41,440. Nicolle, of Rue du Cornet, Yvetot, département de la Seine Inférieure, for "A machine for making wefts, and, if required, bobbins for warps."—Dated 30th June, 1859.

41,441. Pelouze, of Quai Conti, Hôtel des Monnaies, Paris, for "Manufacture of chlorhydric acid."—Dated 15th June, 1859.

41,442. Planque, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of pasteboard."—Dated 28th June, 1859.

41,443. Petit, of Cour-des-Prés, Tours, for "A harvesting machine."—Dated 27th June, 1859.

41,444. Sagette, of Joigny, département de l'Yonne, for "A mowing apparatus."—Dated 1st July, 1859.

41,445. Schramm, represented by Robijns, of 79, Rue de Vaugirard, Vaugirard, département de la Seine, for "A machine, called 'Express extractor,' for sugar works, brewing, and distilling."—Dated 29th June, 1859.

41,446. Trit, of 12, Impasse Fessard, Belleville, département de la Seine, for "Treatment of madder."—Dated 28th June, 1859.

41,447. Ventouillac, domiciled with his brother, of 26, Cours de Vincennes, Commune de St. Mandé, for "A lever rotary motor."—Dated 28th June, 1859.

41,448. Ballard and Roche, of Mâcon, for "A screw apparatus for distilling continuously."—Dated 8th July, 1859.

41,449. Bassery, of Amiens, for "A hand-machine for working wood for joinery and making tenons."—Dated 2nd July, 1859.

41,450. Bertrand, of 40, Rue Méridienne, Lotteville-lès-Rouen, département de la Seine Inférieure, for "An alarum float."—Dated 4th July, 1859.

41,451. Bréviaire, of 7, Rue du Contrat-Social, Rouen, for "A spring mechanism for galleries of windows."—Dated 6th July, 1859.

41,452. Chavanne, of 52, Quai Pierre-Seize, Lyon, for "Using the extract of chestnut trees for disincrustating steam boilers."—Dated 4th July, 1859.

41,453. Delhaye, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for making washers of cocks, &c."—Dated 30th June, 1859.

41,454. Delalain, of 28, Rue de l'Orangerie, Versailles, for "A process for disinfecting essence of turpentine and resin-oil."—Dated 11th July, 1859.

41,455. Delaporté, of 11, Place Royale, Nantes, for "An hydrostatic machine."—Dated 7th July, 1859.

41,456. D'Hennin, Ponceot, and Bloisbluche, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Manufacture of foot-coverings and clogs of gutta percha, or any other similar substance, by means of special moulds and special mechanical apparatus."—Dated 30th June, 1859.

41,457. Fargues, of Lodève, département de l'Hérault, for "An apparatus in Saxon or French weaving machines for using said looms for weaving twilled cloth."—Dated 5th July, 1859.

41,458. Franc, of 7, Rue Neuve, Lyon, for "A red-dyeing substance."—Dated 5th July, 1859.

41,459. Gache, of 49, Rue de Vertais, Nantes, for "A steam apparatus for navigation."—Dated 4th July, 1859.

41,460. Gairaud, of 1, Rue de l'Ecole de Droit, Montpellier, for "A system of drying waddings."—Dated 4th July, 1859.

41,461. Grisart, of 12, Rue de la Trinité, Troyes, département de l'Aube, for "Improvements in sewing apparatus."—Dated 5th July, 1859.

41,462. Guary, of Falck, département de la Moselle, for "A counter-weight balance with compressed air."—Dated 2nd July, 1859.

41,463. Hardouin-Thirouin, represented by Lafon, of 292, Rue St. Martin, Paris, for "A machine for boiling seeds, vegetables, and roots by means of hot air."—Dated 30th June, 1859.

41,464. Javelle, of 54, St. Etienne, département de la Loire, for "Improvements in revolving fire-arms."—Dated 5th July, 1859.

41,465. Jeunehomme, Brothers, of Mouzon, département des Ardennes, for "Rolled iron for fastenings of windows and Venetian blinds."—Dated 11th July, 1859.

41,466. Martin, of 12, Rue Chaptal, Paris, for "Improvements in the manufacture of rails and wheel tyres."—Dated 30th June, 1859.

41,467. Martin and Bertholon, of St. Etienne, département de la Loire, for "A coke-kiln with an apparatus for distilling tar."—Dated 7th July, 1859.

41,468. Maurice, of Blois, département de Loir-et-Cher, for "A levelling instrument, called 'Speaking sight.'"—Dated 11th July, 1859.

41,469. Mauvage, of Héry, département de l'Yonne, for "A system of gauges and accessory instruments for making tiles, bricks, paving-tiles and pipes."—Dated 11th July, 1859.

41,470. Moustié, of 14, Rue Bouquière, Bordeaux, for "Clog-sabots for foot-coverings."—Dated 11th July, 1859.

41,471. Pascal, of 82, Rue Longue des Capucins, Marseille, for "Manufacture of stearine acid or stearine candles."—Dated 29th June, 1859.

41,472. Pimont, of 55, Rue Impériale, Rouen, for "A heating apparatus fed alternately by water and steam circulating in groups of pipes with simultaneous condensation and feeding."—Dated 6th July, 1859.

41,473. Prevost and Arnaud, represented by Génaud, of 52, Rue de l'Abbaye, Montmartre, département de la Seine, for "A submarine propellor."—Dated 21st June, 1859.

41,474. Rancoulet, of 155, Rue St. Denis, Paris, for "Improvements in buttons."—Dated 30th June, 1859.

41,475. Roy, of Ste. Austreberthe, département de la Seine Inférieure, for "An independent escapement of clocks with a constant power."—Dated 9th July, 1859.

41,476. Tron, of St. Louis, Banlieue de Marseille, for "A machine for planing screws."—Dated 7th July, 1859.

41,477. Varenne, of 2, Rue Vivienne, Paris, for "Improvements in ladies' bonnets."—Dated 14th June, 1859.

41,478. Villaret, of Clermont l'Hérault, département de l'Hérault, for "A composition for removing the bitter taste from smoking pipes and for giving them a pleasant smell."—Dated 5th July, 1859.

41,479. Voruz, senr., of Rue Linné, Nantes, for "Apparatus for moulding projectiles of guns, &c."—Dated 8th July, 1859.

41,480. Wanoff, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Manufacture of combs."—Dated 30th June, 1859.

41,481. Armagnac, jun., of 145, Rue de l'Université, Paris, for "A freezing apparatus."—Dated 1st July, 1859.

41,482. Aumond and Vitou, the former of 2, the latter of 9, Rue Albouy, Paris, for "A system of iron framings."—Dated 2nd July, 1859.

41,483. Bayer, of 13, Rue de Sèze, Paris, for "Improvements in the construction of carriages."—Dated 2nd July, 1859.

41,484. De Behr, of 66, Rue de Bondy, Paris, for "A composition of marble."—Dated 1st July, 1859.

41,485. Binant, of 70, Rue Rochechouart, Paris, for "Improvements in perfumery."—Dated 1st July, 1859.

41,486. Bouyon, of 24, Rue St. Honoré, Paris, for "A system of gas burners."—Dated 4th July, 1859.

41,487. Clegg, represented by Valerio, of 4, Rue Basse du Rempart, Paris, for "A kind of screw."—Dated 5th July, 1859.—(English Patent, 22nd October, 1858.)

41,488. Cusson-Saint-Joanis, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Applying photography."—Dated 1st July, 1859.

41,489. Delagrange, domiciled with Réal, of 17, Rue des Jeûneurs, Paris, for "Using the waste of silk, &c."—Dated 2nd July, 1859.

41,490. Delangle, of 189, Rue St. Martin, Paris, for "A kind of stump (for artists), called 'Nigrivore.'"—Dated 4th July, 1859.

41,491. Duval and Joviaux, of l'Hermitage, St. Denis, département de la Seine, for "A purifying gasmeter, indicating the lighting power."—Dated 2nd July, 1859.

41,492. Emery, domiciled with Aubin, of 46, Rue Basse, Passy, département de la Seine, for "A system of keyboards for organs."—Dated 15th June, 1859.

41,493. Francon, represented by Tardieu, of 6, Rue du Parc Royal, Paris, for "Improvements in the construction and the movement given to the stirring apparatus of machines for obtaining gaseous liquids."—Dated 1st July, 1859.

41,494. Gregg, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in currying or manufacturing leather."—Dated 21st March, 1859.

41,495. Henry and Bompard, the former of Savonnières devant Bar, the latter of Bar-le-Duc, département de la Meuse, for "A system applicable to all reels, and especially to twisting."—Dated 27th June, 1859.

41,496. Holden, represented by Brandon, of 7, Rue des Moulins, Paris, for "Improvements in machines for preparing and combing wool and other filamentous substances."—Dated 2nd July, 1859.—(English Patent, 7th January, 1859.)

41,497. Juillard, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "A system of variable escape of steam for regulating the draught of furnaces of locomotives."—Dated 4th July, 1859.

41,498. Klein and Wiel, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction of locks, fastenings of bags, &c."—Dated 1st July, 1859.

41,499. Lonca and Dubrulle, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Arrangement of spiral springs."—Dated 1st July, 1859.

41,500. Maisonneuve, repsesented by Louis Maisonneuve, of 13, Rue d'Orléans, Batignolles, département de la Seine, for "Improvements in telegraphic apparatus."—Dated 1st July, 1859.

41,501. Malard, of 61, Rue de Sèvres, Paris, for "Unalterable waterproof coating for brick walls." Dated 1st July, 1859.

41,502. Marguerittte and Worms de Romilly, the former of 30, Rue de Boulogne, the latter of 22, Rue Bergère, Paris, for "A mode of defecating juice of sugar."—Dated 4th July, 1859.

41,503. Maurel Fenaille and Ghatillon, represented D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in gas burners for burning hydrocarburets in general, and especially oil or essence of resin."—Dated 2nd July, 1859.

41,504. Mouillard and Gunther, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Arrangements in reflectors."—Dated 2nd July, 1859.

41,505. Pagliari, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A vessel for mixing gaseous and other liquids."—Dated 4th July, 1859.

41,506. Parkes, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of metal compounds, some of which may be rolled into sheets for sheathing vessels, and into pipes, rods, bolts, and nails, and manufacture of pipes of aluminium."—Dated 5th July, 1859.

41,507. Pasquier de la Gressière, domiciled with Brade, of 29, Rue Ste. Anne, Paris, for "Using torrefied wood in blast furnaces."—Dated 5th July, 1859.

41,508. Petin, Gaudet, and Company, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for sawing large plates of iron, fenders, &c."—Dated 5th July, 1859.

41,509. Reid and Milner, represented by Perpigna of 42, Rue Neuve St. Augustin, Paris, for "Improvements in the construction of vessels and ships."—Dated 2nd July, 1859.—(English Patent, 20th January, 1859.)

41,510. Rousseau, represented by Ricordeau, of 23 Boulevart de Strasbourg, Paris, for "An organiphone or diminutive organ."—Dated 4th July, 1859.

41,511. Sellers, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in ovens for baking bread and other alimentary substances, being applicable to other purposes."—Dated 2nd July, 1859.—(English Patent, 10th June, 1859.)

41,512. Taylor, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in using india rubber."—Dated 30th June, 1859.

41,513. Appietto, Son, domiciled with Multedo, of Ajaccio, Corsica, for "A machine for multiplying lithographic transfers."—Dated 12th July, 1859.

41,514. Boulanger, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the treatment of white wine in general, and champagne in particular."—Dated 5th July, 1859.

41,515. Champenois, of Denain, département du Nord, for "A system of iron wheels."—Dated 16th July, 1859.

41,516. De Baecker, domiciled with Lannoy-Lefebvre, of 55, Rue Basse, Lille, for "A machine for harvesting corn and binding the same up in to sheaves."—Dated 14th July, 1859.

41,517. Ferron, sen., of Dinan, département des Côtes-du-Nord, for "Blouses with elastic collars and facings."—Dated 11th July, 1859.

41,518. Fleury, of 17, Rue de Puteaux, Batignolles, département de la Seine, for "Improvements in wheels of railway carriages."—Dated 6th July, 1859.

41,519. Fournier and Charin, Brothers, of Valence, département du Drôme, for "A system of cylinders of steam engines."—Dated 7th July, 1859.

41,520. Fuzellier-Cury, of Nouzon, département des Ardennes, for "Manufacture of handles of window bolts."—Dated 14th July, 1859.

41,521. Giraud and Pallu, of 94, Rue Duguesclin, Lyon, for "A stop, applicable to dynamic balances and other oscillating weighing instruments."—Dated 16th July, 1859.

41,522. Habert, of Troyes, département de l'Aube, for "Moveable independent seats for public closets."—Dated 13th July, 1859.

41,523. Halouchery, of Merville, département du Nord, for "A system of crushing."—Dated 19th July, 1859.

41,524. Keim, Father, of Thann, département du Haut-Rhin, for "A weaving loom."—Dated 6th July, 1859.

41,525. Lambert, domiciled with Duguet, of 42, Rue Grenette, Lyon, for "A case for smoking-pipes."—Dated 9th July, 1859.

41,526. Lefebvre, represesented by Bresson, of 57, Rue de Bretagne, Paris, for "A mode of stoppering bottles."—Dated 6th July, 1859.

41,527. Leygonie, of 5, Rue des Quartre-Chemins, Limoges, for "A universal motor based on the hydrostatic paradox."—Dated 18th July, 1859.

41,528. Luizet, of 5, Place Henri IV., Lyon, for "A machine with wet stamps."—Dated 15th July, 1859.

41,529. Mansoy, of 99, Rue de la Paix, Batignolles, département de la Seine, for "A system of iron naves for wheels of railway and other carriages."—Dated 6th July, 1859.

41,530. Maury, of 40, Rue d'Etretat, Havre, département de la Seine Inférieure, for "A means of pumping out the water from floating docks and from vessels."—Dated 16th July, 1859.

41,531. Ménard and Guérin, of Ay, département de la Marne, for "A mode of closing bottles, by means of a press and clasp."—Dated 13th July, 1859.

41,532. Minary and Soudry, the former of Casamène Banlieue de Besançon, the latter of 48, Rue St. Vincent Besançon, for "Treatment of the slags of forges."—Dated 13th July, 1959,

41,533. Poitevin, Brothers, of 69, Rue Imperial, Rouen, for "Electric mattresses jointed in a transversal direction."—Dated 16th July, 1859.

41,534. Prévost, of Bessèges, département du Gard, for "Improvements in the treatment of iron ores."—Dated 13th July, 1859.

41,535. Raymondière, of 32, Chaussée de la Madeleine, and of 1, Rue Beauséjour, Nantes, for "A machine for cutting leather, and rendering the same level."—Dated 14th July, 1859.

41,536. Sarraut, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A preservative rod-valve for lamps."—Dated 5th July, 1859.

41,537. Sebille, of 4, Rue du Dudrezène, Nantes, for "A machine for manufacturing sheets of lead, and for tinning them at the same time."—Dated 13th July, 1859.

41,538. Senac, of Tarbes, for "Applying a syphon pump to Japy's pump."—Dated 9th July, 1859.

41,539. Sloan, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the mode of opening and closing Venetian blinds, doors, &c."—Dated 5th July, 1859.

41,540. Soumeillan, of l'Isle-en-Dodon, département de la Haute Garonne, for "Correct watches with escapements."—Dated 27th May, 1859.

41,541. Tardieu, of Valenciennes, département du Nord, for "Laying rails on sleepers of rolled iron."—Dated 16th July, 1859.

41,542. Tougard, of Bapaume, département de la Seine Inférieure, for "A machine for cutting off patterns of fabrics."—Dated 16th July, 1859.

41,543. Toulze, of Clermont-Ferrand, département du Puy-de-Dôme, for "A railway break."—Dated 18th June, 1859.

41,544. Waldstein, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An optical instrument, by means of which various effects are produced."—Dated 5th July, 1859.—(Austrian Patent, 5th May, 1859.

41,545. ARNOUX, of Rue Ferrari, Marseille, for "A steam engine, with a moveable slide-box."—Dated 16th July, 1959.

41,546. BADIN and CHEVREAU-LORRAIN, represented by Béranger, of 38, Rue Taitbout, Paris, for "A mode of closing bottles." — Dated 12th July, 1859.

41,547. BARRE, Brothers, Rue de Ponthièvre, Paris, for "A process for punching and engraving metal."—Datsd 9th July, 1859.

41,548. CHARNELET, of 98, Rue Ménilmontant, Paris, for "Using a kind of metal for the construction of pincers used in machines for finishing stuffs."—Dated 9th July, 1859.

41,549. CHEVALLARD, DESMONS, CAUSSE, CANU, and HOREAU, of 75, Rue Truffaut, Batignolles, département de la Seine, for "A machine for breaking hard substances." — Dated 9th July, 1859.

41,550. CREMER of 60, Rue St. Louis au Marais, Paris, for "Windows with water-tight joints."—Dated 9th July, 1859.

41,551. DAVIS, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of umbrellas, parasols, &c."—Dated 9th July, 1859.—(English Patent, 31st August, 1858.)

41,552. DUFEY, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Processes for cementing malleable cast iron, common cast iron, and iron."—Dated 6th July, 1859.

41,553. GAUDRY, of 105, Rue de Paris, St. Denis, département de la Seine, for "A kind of wick-bearers for illuminations."—Dated 7th July, 1859.

41,554. GEORGI, of 28, Rue de l'Echiquier, Paris, for "An instrument for raising rails of railways." —Dated 8th July, 1859.

41,555. GOSTEAU, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of advertizing."—Dated 11th July, 1859.

41,556. GRANJON-CHARDAINE, represented by Despeaux, of 3, Passage de l'Entrepôt des Marais, Paris, for "An hydraulic and aeolian wheel with a jointed axle."—Dated 12th July, 1859.

41,557. GUIGUET and LALLIÉ, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Point paper."—Dated 11th July, 1859.

41,558. GUILLON, of 11, Rue Monthyon, Paris, for "An apparatus for making sugar-plums."—Dated 9th July, 1859.

41,559. GWYN, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in fire-arms."—Dated 9th July, 1859.—(English Patent, 21st June, 1859.)

41,560. JACOB and BAUDRY, the former of 32, Boulevart Poissonnière, the latter of 11, Passage Saulnier, Paris, for "Cartridges for breech-loading fire-arms."—Dated 9th July, 1859.

41,561. JAUBERT and CHOMINOT, of Chemin Neuf de la Madeleine, Marseille, for "Manufacture of coffee."—Dated 16th July, 1859.

41,562. JULLIENNE, of 303, Rue St. Denis, Paris, for "A kind of belt for bathing."—Dated 11th July, 1859.

41,563. LEBIGRE and TELLIER, the former of 142, Rue de Rivoli, Paris, the latter of 11, Rue Lebouteux, Batignolles, département de la Seine, for "A night utensil (nécessaire de voyage) with an air-cushion for travellers."—Dated 9th July, 1859.

41,564. MARTIN, domiciled with Riant, of 38, Rue du Dragon, Paris, for "A machine for loading and unloading merchandize, and all kinds of articles." —Dated 12th July, 1859.

41,565. MARTIN, of 10, Place Napoléon, Villeurbanne, département du Rhône, for "A silk neck-cloth for ladies."—Dated 18th July, 1859.

41,566. METZGER, alias CHARLES, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Copying presses."—Dated 9th July, 1859.

41,567. MUSHET, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in metal alloys."—Dated 6th July, 1859.—(English Patent, 12th January, 1859.)

41,568. MUSHET, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast steel."—Dated 8th July, 1859. —(English Patent, 12th January, 1859.

41,569. MUSHET, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast steel."—Dated 9th July, 1859. —(English Patent, 15th January, 1859.)

41,570. PERPÈTE, represented by Amouroux, of 333. Rue St. Martin, Paris, for "Fixed and marine steam engines with wheels and paddles, having a rotula movement."—Dated 11th July, 1859.

41,571. RAVENEAU, of 210, Rue du Faubourg St Denis, Paris, for "A regulating float and self-moving cock."—Dated 12th July, 1859.

41,572, SCHNECKENBURGER, LIPPMAN, and CARRÉ, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A plastic composition, called 'Similimarbre,' for moulding, reproducing, and constructing all kinds of artistic and industrial articles."—Dated 7th July, 1859.

41,573. VALLANTIN, of 123, Rue Notre Dame des Champs, Paris, for "Improvements in mounting objectives for photography."—Dated 9th July, 1859.

41,574. WAAG, of 79, Rue de la Fidélité, Paris, for "Improvements in apparatus for wedging weighing bridges."—Dated 9th July, 1859.

41,575. WAASER, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in machines for working reeds for caning chairs, arm-chairs, &c."—Dated 11th July, 1859.

41,576. WALKER, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in mounting looking glasses or toilet mirrors.— Dated 6th July, 1859.—(English Patent, 20th May, 1859.)

41,577. WARORERY, of 14, Quai St. Clair, Lyon, for "Improvements in Heilmann's combing machines."—Dated 18th July, 1859.

41,578. ALEXANDRE, Father and Son, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Uniting the instruments called 'Polkas, Flutinas,' for being played together or separately in the same way."—Dated 12th July, 1859.

41,579. BRASSENS, of Quinsac, département de la Gironde, for "Vessels with two stern posts for two screws."—Dated 18th July, 1859.

41,580. Buhler, of 2, Rue Kleber, Mulhouse, département du Haut-Rhin, for "A mechanism called 'Motive plunger.'"—Dated 20th July, 1859.

41,581. Burton, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in fire-arms."—Dated 13th July, 1859.—(American Patent, 14th June, 1859.)

41,582. Cazes and Teissier, au Vigan, département du Gard, for "Third needle supports for stocking frames."—Dated 18th July, 1859.

41,583. Chenn, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An alimentary substance, called 'Galinea.'"—Dated 13th July, 1859.

41,584. Clavières, of 82, Rue Blanche, Paris, for "Arrangements of rails and sleepers on common roads, and in towns."—Dated 14th July, 1859.

41,585. Courtois and De Soulange, represented by Brade, of 29, Rue Ste. Anne, Paris, for "A lime-kiln."—Dated 13th July 1859.

41,586. Della-Janna, of 2, Rue de la Sous-Prefecture, Vienne, for "A machine for currying leather."—Dated 19th July, 1859.

41,587. Dupy, of 34, Rue Porte-Dijeaux, Bordeaux, for "Pocket-book waistcoats, called safety cash-box."—Dated 23rd July, 1859.

41,588. Foucault, of Alger, for "A process for stripping fibrous plants, and using them in the manufacture of paper."—Dated 27th June, 1859.

41,589. Foucault, of Alger, for "Arrangements of scenery and decorations of theatres."—Dated 5th July, 1859.

41,590. Frouin, Porchère, département de la Gironde, for "A machine with a continuous movement."—Dated 21st July, 1859.

41,591. Gentille, 63, Boulevart Napoléon, Toulouse, for "Crinoline that may be shut up in a box."—Dated 15th July, 1859.

41,592. Grand de Chateauneuf, of 30, Avenue de Claillot, aux Ternes, département de la Seine, for "Air beds."—Dated 12th July, 1859.

41,593. Grasset, of 24, Rue Bellefond, Paris, for "An apparatus for registering carriages."—Dated 12th July, 1859.

41,594. Herché, of Route d'Evreux, Louviers, département de l'Eure, for "Small hampers for conveying building materials, soil, manure, rubbish, and loose materials in general."—Dated 18th July, 1859.

41,595. Jean, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in Thierry's smoke-consuming apparatus."—Dated 12th July, 1859.

41,596. Kerr, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in revolving fire-arms."—Dated 12th July, 1859.—(English Patent, 17th December, 1858.)

41,597. Klotz, of 4, Passage Saulnier, Paris, for "Improvements in sewing machines."—Dated 13th July, 1859.

41,598. Lefebvre, domiciled with Burel, of 3, Rue d'Harcourt, Rouen, for "Improvements in turning, applicable especially to the manufacture of spindles for spinning and weaving."—Dated 20th July, 1859.

41,599. Livermore, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in the manufacture of liquids used for lighting and heating."—Dated 13th July, 1859.—(English Patent, 8th July. 1859.)

41,600. Mange, of 19, Rue St. Julien, Rouen, for "A machine for making paper tubes for spinning."—Dated 19th July, 1859.

1,601. Maury, of 37, Rue St. Remy, Bordeaux, for "Manufacture of sausages."—Dated 22nd July, 1859.

41,602. Pedroni and Besson, Brothers, the former of 84, Rue de la Croix-Blanche, the latter of 10, Rue du Réservoir, Bordeaux, for "A machine for fulling hats."—Dated 21st July, 1859.

41,603. Petit, of 63, Rue Fondary, Grenelle, département de la Seine, for "Lever locks."—Dated 13th July, 1859.

41,604. Schimmelbusch, represented by Hoechster, of 34, Rue des Petites-Ecuries, Paris, for "A mode of improving puddled steel and iron by alloying the same with tungsten."—Dated 13th July, 1859.

41,605. Simon, of Charleville, département des Ardennes, for "Manufacture of nails by the cold process."—Dated 25th July, 1859.

41,606. Smith, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in fire-arms."—Dated 13th July, 1859.—(English Patent, 27th June, 1859.)

41,607. Trébuchet, of 27, Rue Surson, Bordeaux, Bacalande, département de la Gironde, for "A rotary steam engine."—Dated 19th July, 1859.

41,608. Vandevoorde, domiciled with Royaerts, of 25, Rue de la Clef, Lille, for "A metrical measure."—Dated 23rd July, 1859.

41,609. Basset, of 4, Rue de la Vieille-Potterie, Orléans, for "An apparatus for turning over leaves."—Dated 23rd July, 1859.

41,610. Boubel and Co., of 1, Rue St. Savournin, Marseille, for "A pump for draining marshes."—Dated 22nd July, 1859.

41,611. Charvet and Franquin, of Route de Cremieux, Villeurbanne, département du Rhône, for "A motor."—Dated 23rd July, 1859.

41,612. Chauvel, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of caps and other similar head coverings."—Dated 16th July, 1859.

41,613. Constantin, of 7, Rue d'Antin, Paris, for "Artificial leaves."—Dated 15th July, 1859.

41,614. David, domiciled at Cognac, département de la Charente, for "A system of packing full and empty bottles, and other fragile objects."—Dated 23rd July, 1859.

41,615. Desnoulet, of 109, Grande Rue, Lille, for "Manufacture of beer."—Dated 27th July, 1859.

41,616. Dombret, Gugnolle, and Potez, sen., represented by Thibault, of 34, Rue du Rendez-vouz, St. Mandé, département de la Seine, for "A machine for preparing textile and filamentous substances, such as wool, flax, &c., for combing."—Dated 7th July, 1859.

41,617. Du Liége de Puychaumeix, of 14, Rue de Reuilly, Charenton-le-Pont, département de la Seine, for "Spring mattresses and seats."—Dated 15th July, 1859.

CERTIFICATES OF ADDITION.

36,635. ARTIGE, for a "Rod."—Dated 18th May, 1859.

39,190. BAILLET, CANMONT, and Co., for a "Fan."—Dated 17th May, 1859.

37,796. BELORGÉ, for "Braces."—Dated 12th May, 1859.

40,332. BOUQUINÉ, for a "Cross-beam.'—Dated 20th May, 1859.

32,134. BRAITEAN, for a "Cock."—Dated 19th May, 1859.

39,701. BREVEL, for a "Steam engine."—Dated 18th May, 1859.

15,185. CHAMPONNOIS, for "Sugar."—Dated 14th May, 1859.

37,347. CHATAING, for a "Pump."—Dated 14th May, 1859.

34,261. CONSEIL, for "Salvage."—Dated 13th May, 1859.

39,799. CORNELY, for "Raisiné."—Dated 17th May, 1859.

39,766. COUSIN (du Thil.), for "Cosmography."——Dated 12th May, 1859.

40,841. COUSINBERCHE, jun., for "Candles."—Dated 20th May, 1859.

25,374. DEISS, for "Tallow."—Dated 20th May, 1859.

36,838. DOMERCQ, for "Watering."—Dated 14th May, 1859.

39,103. DUROT, for a "Roller."—Dated 20th May, 1859.

39,204. GAUPILLAT and ILLIG, for a "Cartridge."—Dated 12th May, 1859.

38,493. GRENIÉ and LADEVÈZE, for a "Fire-arm."—Dated 12th May, 1859.

34,634. HENRIOT, for a "Syringe."—Dated 18th May, 1859.

38,719. HONEGGER, for "Weaving."—Dated 18th May, 1859.

36,708. JODON, for a "Motor."—Dated 20th May, 1859.

36,748. LABORDE, for a "Smut machine."—Dated 20th May, 1859.

38,852. LANNOY, for "Heating."—Dated 19th May, 1859.

40495. LE BLANC, for "Dyeing."—Dated 13th May, 1859.

37,682. LE CHATELIER, for "Alumina."—Dated 18th May, 1859.

36,654. L'ECLUSE, for "Sewing."—Dated 18th May, 1859.

40,011. MASSON, for "Cleaning bottles."—Dated 13th May, 1859.

31,693. MONNIER, for a "Break."—Dated 13th May, 1859.

38,404. PAVY, for "Paper pulp."—Dated 19th May, 1859.

35,516. PELLET, for "Printing leather canvass."—Dated 16th May, 1859.

38,861. POIVRET, for a "Tricot."—Dated 18th May, 1859.

38,504. POIVRET, for a "Tricot."—Dated 18th May, 1859.

39,884. PORLIER, for an "Earth nut."—Dated 23rd May, 1859.

39,400. PRENGRUEBER, for "Locomotion."—Dated 17th May, 1859.

40,729. RATEAU, for a "Floor."—Dated 16th May, 1859.

30,880. SAURET, for a "Furnace."—Dated 13th May, 1859.

30,283. SCHREIBER, for "Gas."—Dated 21st May, 1859.

40,511. SCHRODER, for "Sugar."—Dated 14th May 1859.

36,633. VASSEUR and HOUBIGANT, for "Dyeing.'—Dated 14th May, 1859.

37,372. VERSET, for a "Pump."—Dated 23rd May 1859.

33,499. WALCH, for "Printing fabrics."—Dated 18th May, 1859.

36,667. BEAURY, for "Wool silk."—Dated 20th May, 1859.

16,879. BELVALETTE, Brothers, for a "Carriage."—Dated 21st May, 1859.

34,592. BOUDIER, for a "Steam engine."—Dated 30th May, 1859.

38,418. BOUQUIÉ, for "Traction."—Dated 20th May, 1859.

39,001. CARMINE, for a "Calorifere stove."—Dated 21st May, 1859.

36,799. COLOMBIER, for "Steam."—Dated 28th May, 1859.

36,767. CUIT, for a "Railway break."—Dated 25th May, 1859.

36,278. DALMAS, for an "Inodorous basin for closets."—Dated 26th May, 1859.

36,410. DAVIS, for a "Musical instrument."—Dated 26th May, 1859.

32,701. DESAINT, for "Stoppering."—Dated 31st May, 1859.

36,937. DUNOYER, for a "Varnish."—Dated 3rd June, 1859.

39,672. ESCOUBÉ, for "Gloves."—Dated 4th June, 1859.

21,019. EVRARD, for a "Fulling stock."—Dated 4th June, 1859.

22,924. GACHE, for a "Steam apparatus."—Dated 3rd June, 1859.

15,570. GASTINNE, for a "Fire-arm."—Dated 24th May, 1859.

36,805. GAUTHIER, for a "Tool."—Dated 27th May, 1859.

36,876. HERAULT, for a "Conveyance."—Dated 4th June, 1859.

40,463. HOGA, PIGGOTT, and BEARDMORE, for a "Telegraph."—Dated 21st May, 1859.

36,712. KUGLER, for a "Spring."—Dated 21st May, 1859.

36,973. Lambert, for "Moulding."—Dated 26th May, 1859.

36,750. Lamblin, for a "Break."—Dated 27th May, 1859.

36,006. Lavergne, for a "Railway."—Dated 8th June, 1859.

24,655. Lebrun, for a "Window."— Dated 28th May, 1859.

36,878. Lemaire, for a "Chimney."—Dated 4th June, 1859.

35,352. Manuel, for "Sugar."—Dated 21st May 1859.

38,593. Millot, for a "Retractible truss."—Dated 24th May, 1859.

13,510. Moreau, for a "Furnace."— Dated 25th May, 1859.

38,137. Moussy-Teysset, for a "Lock."—Dated 3rd June, 1859.

28,607. Nouflard, for "Carding."— Dated 24th May, 1859.

34,250. Peltier jun., for "Crushing grain."—Dated 23rd May, 1859.

32,283. Perratone, for a "Railway train."—Dated 23rd May, 1859.

40,728. Pinay, for a "Textile substance."—Dated 8th June, 1859.

37,523. Poret, for "Mineral water."—Dated 21st May, 1859.

32,948. Saintard, for a "Break."— Dated 24th May, 1859.

40,210. Salot, alias Perpignan, for a "Fire-globe."—Dated 26th May, 1859.

32,290. Sénéchal and Potez, for "Screw cutting."—Dated 21st May, 1859.

32,028. The St. Georges Company of Engine and Iron Works, near St. Gall, for "Embroidery."—Dated 25th May, 1859.

35,168. Stevenaux, for a "Brewing vat."—Dated 25th May, 1859.

36,954. Victor, for a "Brick."—Dated 3rd June, 1859.

37,964. Berthiot and Co., for a "Manometer."—Dated 11th June, 1859.

36,992. Blaise, for "Animal charcoal."— Dated 11th June, 1859.

40,774. Bontel, for "Ladies' page."—Dated 30th May, 1859.

17,408. Brunet, for "Weaving."—Dated 27th May, 1859.

39,002. Caussade and Barrère, for "Sewing."—Dated 6th June, 1859.

38,220. Charlot, for a "Telescope."—Dated 1st June, 1859.

40,551. Chomette, for "Heating,"—Dated 6th June, 1859.

36,547. Coulard, for a "Tile."—Dated 16th May, 1859.

36,963. David, sen., for "Small shot."—Dated 10th June, 1859.

39,418. Dax, for a "Fire arm."—Dated 30th May, 1859.

36,801. Degrand, for a "Motor."—Dated 30th May, 1859.

40,326. Delarivière and Martin, for a "Pump."—Dated 27th May, 1859.

39,708. Frémentin, for a "Stopper."—Dated 15th June, 1859.

33,480. Gaiffe, for "Printing fabrics."—Dated 31st May, 1859,

15,706. Gras, for "Locomotion." — Dated 28th May, 1859.

40,230. Hayem, jun., for "Cravat."—Dated 31st May, 1859.

29,138, Hebert, for a "Spooling machine."—Dated 1st June, 1859.

37,415. Hossard, for a "Syphon."—Dated 15th June, 1859.

300,32. Knab and Co., and Clovis, Knab, and Co., for a "Lamp."—Dated 24th May, 1859.

40,951. Lannebit and Barrère, for a "Forge."—Dated 4th June, 1859.

39,306. Lévêque, for "Harness."—Dated 24th May, 1859.

26,136. Marchand, for a "Railway."—Dated 8th June, 1859.

38,728. Marque, for a "Lamp-burner."—Dated 15th June, 1859.

31,603. Mercier, for a "Mill."—Dated 27th May, 1859.

40,405. De Mirandol, for "Ornamenting mirrors."—Dated 11th June, 1859.

35,481. Molard, for "Tan."—Dated 11th June, 1859.

41,057. Moreau, for "Congreve rockets."—Dated 1st June, 1859.

37,718. Mourceau, for a "Tissue."—Dated 4th June, 1859.

36,851. Nallard, for a "Registering apparatus."—Dated 28th May, 1859.

38,921. Ouarnier, for a "Cartridge."—Dated 7th June, 1859.

23,907. Pirow, for a "Clasp."—Dated 26th May, 1859.

33,925. Platel, for a "Fire-arm."—Dated 7th June, 1859.

36,786. Puech, for a "Tricot."—Dated 26th May, 1859.

36,855. Ramade-Dourif, for "Alimentary paste."—Dated 1st June, 1859.

41,060. Rives, for a "Dray."—Dated 10th June, 1859.

37,304. Rivière, for "Lubricating carriages."—Dated 3rd June, 1859.

35,329. Schneider, for "Cartridge and fire-arms."—Dated 9th June, 1859.

27,941. Orézel, for "Yeast."—Dated 15th January, 1859.

37,113. Vigreux, for a "Design."—Dated 6th June, 1859.

PRUSSIA.*

List of Patents Delivered between the 1st and 30th November, 1859.

(*Communicated by the Minister of Commerce and Public Works.*)

1. H. Kohn, of Berlin, for an imported invention of "A sewing machine."—5 years.—Dated 8th November, 1859.

2. Emil Arnold, of Berlin, for an imported invention for "Self-acting apparatus for laying in paper and cutting the same, connected with fly-presses."—5 years.—Dated 15th November, 1859.

3. Kayser, of Gleiwitz, for "A self-registering apparatus for weighing beetroot and similar other substances.—5 years.—Dated 22nd November, 1859.

4. H. Baumeister, of Magdeburg, for "A self-acting apparatus for emptying scales."—5 years.—Dated 23rd November, 1859.

5. W. Wedding, of Berlin, for "A mangle."—5 years.—Dated 25th November, 1859.

List of Specifications published during the week ending 9th December, 1859.

No.	Price.	Subject-Matter.
1092	6*d.*	Carding engines.
1093	3*d.*	Apparatus for obtaining and applying atmospheric pressure.
1094	3*d.*	Fastenings for shutters, &c.
1095	7*d.*	Manufacture of iron hurdles and fencing.
1096	7*d.*	Electro-magnetic engines.
1097	5*d.*	Apparatus for expressing clay or brick earth through dies.
1098	3*d.*	Manufacture of night-light cases.
1099	3*d.*	Manufacture and application of alkaline silicates.
1100	11*d.*	Machinery for rubbing or dressing types.
1101	4*d.*	Manufacture of caustic, soda, and carbonate of soda.
1102	3*d.*	Machinery for grinding wire cards.
1103	5*d.*	Treating ores to obtain metallic oxides for dyeing, printing, and painting.
1104	3*d.*	Manufacture of crayons.
1105	3*d.*	Manufacture of mineral oil and grease.
1106	1*s.* 6*d.*	Boilers and furnaces for generating steam and economizing fuel, &c.
1107	4*d.*	Extraction of quinine.
1108	3*d.*	Couplings for shafting.
1109	10*d.*	Machinery for making screw bolts and nuts.
1110	10*d.*	Power printing presses.
1111	10*d.*	Machine for sewing boots and shoes.
1112	3*d.*	Camp cooking apparatus.
1113	3*d.*	Kettles.
1114	1*s.* 3*d.*	Railway signals.
1115	4*d.*	Manufacture of cast steel.
1116	1*s.* 2*d.*	Means of communications on railway trains.
1117	3*d.*	Tuyere for blast furnaces.
1118	3*d.*	Locks, bolts, and latches.
1119	7*d.*	Steam boilers.
1120	4*d.*	Utilization of peat for the treatment of metals, &c.
1121	3*d.*	Machinery for cleaning cotton.
1122	1*s.* 11*d.*	Steam engines, &c.
1123	2*s.* 10*d.*	Shears for cutting boiler plates, &c.
1124	6*d.*	Spinning machinery.
1125	3*d.*	Protecting ships against injury from projectiles.
1126	3*d.*	Construction of fortifications.
1127	3*d.*	Drills.
1128	3*d.*	Manufacture of sheet iron.
1129	7*d.*	Seed drills.
1130	3*d.*	Gas regulators.
1131	4*d.*	Refining sugar, &c.
1132	3*d.*	Cannon and other fire-arms, projectiles, wads, and cartridges.
1133	3*d.*	Scutching and carding machine.
1134	5*d.*	Steam gauge.
1135	5*d.*	Fish hooks.
1136	10*d.*	Pianofortes.
1137	9*d.*	Lubricating axle journals of locomotive engines, &c.
1138	9*d.*	Apparatus for obtaining motive power.
1139	3*d.*	Photographic apparatus.
1140	5*d.*	Gas governor or regulator.
1141	3*d.*	Machinery for staining paper.
1142	10*d.*	Apparatus and flues for heating and ventilating, &c.
1143	6*d.*	Washing machine.
1144	8*d.*	Fastenings for wearing apparel, &c.
1145	6*d.*	Apparatus for grinding grain and other substances.
1146	3*d.*	Apparatus for measuring the hoofs of horses.
1147	3*d.*	Spinning machinery.
1148	1*s.* 3*d.*	Reaping machines, &c.
1149	2*s.* 2*d.*	Locks and fastenings.
1150	4*d.*	Puddling iron and steel.
1151	4*d.*	Manufacture of iron.
1152	3*d.*	Electric telegraph cables.
1153	1*s.*	Manufacture of glass shades.
1154	9*d.*	Manufacture of steel.
1155	3*d.*	Preparation of colouring matters.
1156	1*s.*	Portable photographic tent and camera.

* For the Prussian Patent Law, see Nos. 313 and 329 of this Journal.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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Mornings - - - -	768
Evenings - - - -	643
Total - - -	1411

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321 -	,, October to December ,,
345 -	A.D. 1854—January to March ,,
371 -	,, April to June ,,
399 -	,, July to September ,,
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451 -	A.D. 1855—January to March ,,
475 -	,, April to June ,,
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THE

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NOTICE is hereby given that Provisional Protection has been allowed

1792. To TULLIUS PRIEST FAY, of Liverpool, in the county of Lancaster, for the invention of "Improvements in machinery or apparatus for obtaining and applying motive power."

On his petition, recorded in the Office of the Commissioners on the 3rd day of August, 1859.

2642. To PIERRE MARCHAND, EMILE MARCHAND, and JOSSE MARCHAND, of Dunkirk, France, trading under the firm of Pierre Marchand, Brothers, for the invention of "Improvements in refining lamp oil made from oleaginous seed."

On their petition, recorded in the Office of the Commissioners on the 22nd day of November, 1859.

2650. To WILLIAM KEATES, of Liverpool, in the county of Lancaster, Copper and Lead Smelter, for the invention of "An improved mode of manufacturing or forming the foundation or body of compound cylinders used for printing or embossing fabrics."

On his petition, recorded in the Office of the Commissioners on the 23rd day of November, 1859.

2727. To WILLIAM BETTS, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, for the invention of "Improvements in the manufacture of capsules, and in the machinery or apparatus employed therein."

2729. To THOMAS FREDERICK BRADSON, of Birmingham, in the county of Warwick, Brassfounder, for the invention of "Improvements in door springs."

2733. And to ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "Certain improvements in the construction of coiled springs."—A communication from abroad by Carlos French, of Seymour New Haven, Connecticut, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of December, 1859.

2735. To THOMAS ROBERT RUSSELL, of Liverpool, in the county of Lancaster, Watch Manufacturer, for the invention of "The application of a certain metal for the movements of watches and other time keepers."

2737. To JOSEPH WILLIAM WILSON, of Buckingham Street, Strand, London, county of Middlesex, Civil Engineer, for the invention of "Improvements in the mode of forming and constructing boxes or cases for postal and other purposes."

2739. To HENRY EDWIN DRAYSON, of Bridge Street, Westminster, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in the mode of extinguishing fires in ships, steam boats, vessels of every description, houses, warehouses, stores, or other buildings of whatever kind, and in the machinery connected therewith."

2741. To RICHARD BOND, of Burnley, in the county of Lancaster, "Temple" and "Roller" Maker, and WILLIAM HAYHURST, of the same place, Mechanic, for the invention of "Improved machinery or apparatus to be employed in the manufacture of a certain description of 'temples' used in power looms for weaving."

2743. To NATHANIEL CLAYTON and JOSEPH SHUTTLEWORTH, of the city of Lincoln, for the invention of "Improvements in steam boiler safety valves."

2745. And to EDWIN AUGUSTUS CURLEY, of Richmond Street, Saint George's Road, Southwark, in the county of Surrey, for the invention of "Improved mechanical arrangements or contrivances for measuring, registering, and regulating the flow

of liquids, and likewise for measuring and regulating the passage of fluids and vapours."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of December, 1859.

2747. To EDWARD KELLY, of Erdington, near Birmingham, in the county of Warwick, Plumber, for the invention of "An improved washstand, part of which is also applicable for other useful purposes."

2749. To JULIUS BENN, of Tiffield, in the county of Northampton, Superintendent of the Tiffield Reformatory, for the invention of "Improvements in drills."

2751. To CHARLES SHORT, of Westwood, in the parish of Selston, in the county of Nottingham, Smith, THOMAS BOWES SMEETON, of Underwood, in the said county of Nottingham, Farmer, and WILLIAM BOWLER, of Butterley Park, in the parish of Pentrich, in the county of Derby, Farmer, for the invention of "The manufacture of bricks, tiles, drain pipes, or other articles from cinder or refuse slag."

2753. To ALFRED LANCASTER, of Kensington, in the county of Middlesex, Gun Maker, for the invention of "Improvements in breech-loading fire-arms, in projectiles, and in apparatus for charging cartridges for breech-loading and other arms."

2755. And to ENRICO ANGELO LUDOVICO NEGRETTI and JOSEPH WARREN ZAMBRA, of Hatton Garden, in the city of London, Meteorological Instrument Makers, for the invention of "Improvements in stereoscopes."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of December, 1859.

2757. To FRANÇOIS COIGNET, of 33, Boulevard St. Martin, at Paris, in the empire of France, Manufacturer, for the invention of "Improvements in the manufacture of beton or composition applicable for purposes of covering, building, and construction, and for various uses as artificial stone."

2759. To JAMES SHAW, of the city of Manchester, in the county of Lancaster, Medical Practitioner, for the invention of "Improvements in the insulation and laying down conducting wires for the transmission of telegrams or telegraphic messages."

2761. To EDWIN ARCHER WOOD, of Victoria Terrace, Notting Hill, West, in the county of Middlesex, for the invention of "Certain improvements in anchors."

2763. And to ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for the invention of "Improvements in the manufacture of elastic fabrics."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of December, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 14th December*, 1859, *inclusive.*)

12th December.

2968. GEORGE LITTLEWOOD, of 93, London Wall, in the city of London, for an invention of "Improvements in printing geometric patterns."—Dated 13th December, 1856.

3015. THOMAS WHITE, of Sleaford, in the county of Lincoln, Manufacturer, for an invention of "A new or improved manufacture of boots, shoes, and other coverings for the feet."—Dated 20th December, 1856.

13th December.

2974. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Improvements in machinery for boring, turning, tapping, and screwing fittings for gas, water, steam, and other pipes, and in vices for holding the same while they are operated upon."—A communication.—Dated 15th December, 1856.

2990. FREDERICK LEVICK, junior, Ironmaster, and JOHN JAMES, Furnace Manager, both of Cwm Celyn and Blaina Iron Works, in the county of Monmouth, for an invention of "Improvements in the mode of utilizing the waste gases of blast furnaces."—Dated 17th December, 1856.

14th December.

2976. CHARLES FRÉDÉRIC VASSEROT, of the firm Wells and Vasserot, of 45, Essex Street, Strand, London, Patent Agents, Mechanical Draughtsman, &c., for an invention of "Preserving salmon trout and other fish."—A communication.—Dated 16th December, 1856.

3084. ISAAC ATKIN, of the town and county of the town of Nottingham, Lace Manufacturer, and MARMADUKE MILLER, of the town and county of the town of Nottingham aforesaid, Steam Gauge Maker, for an invention of "Improvements in folding lace, paper, and other fabrics."—Dated 27th December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 14th December*, 1859.)

1070. CLEMENT DRESSER, of Basinghall Street, in the city of London, for an invention of "Improvements in combining materials to be used in substitution of whalebone and other flexible and elastic substances."—A communication.—Dated 15th December, 1852.

Notice of Application for Leave to enter a Disclaimer.

In the matter of Letters Patent granted to JONATHAN IRELAND, of the city of Manchester, in the county of Lancaster, Foundry Engineer, for "Improvements in cupola furnaces."—Dated the 28th day of August, 1858.

Notice is hereby given that the said JONATHAN IRELAND has applied by petition to the Commissioners of Patents for Inventions, according to the Statute in that case made and provided, for leave to enter a Disclaimer of certain parts of the specification of the said Letters Patent.

Dated this 12th day of December, 1859.

HUGHES and BLOODWORTH,
No. 17, Cross Street, Manchester.
HUGHES and SON,
No. 123, Chancery Lane, London,
Agents for the Petitioner.

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

41,618. EBEL, of 3, Rue des Noyers, Belleville, département de la Seine, for "A tool for making cork stoppers."—Dated 15th July, 1859.

41,619. ENGEL, domiciled with Lecomte, of 70, Rue de Babylone, Paris, for "A continuous steam apparatus for extracting and evaporating."—Dated 18th July, 1859.

41,620. FEUILLET, of 103, Rue des Capucins, Lunéville, département de la Meurthe, for "A machine for husking corn, trefoil, &c."—Dated 26th July, 1859.

41,621. GERMAIN, of Lorgues, département du Var, for "Manufacture of mosaic pavements of baked clay."—Dated 23rd July, 1859.

41,622. HOLT, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the manufacture of silk tissues."—Dated 16th July, 1859.—(English Patent, 14th January, 1859.)

41,623. JAPY, Brothers, and Company, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A system of scapements."—Dated 13th July, 1859.

41,624. JAPY, Brothers, and Company, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in locks."—Dated 13th July, 1859.

41,625. MARIE, of 10, Rue St. Ferdinand aux Ternes, département de la Seine, for "Improvements in machines for tilling and clearing lands."—Dated 14th July, 1859.

41,626. MONGIN and GACHE, domiciled with the former, of 6, Rue Lafayette, Nantes, département de la Loire Inférieure, for "A machine for mowing and harvesting."—Dated 22nd July 1859.

41,627. MUSHET, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast steel."—Dated 13th July, 1859.—(English Patent, 15th January, 1859.)

41,628. NILLUS, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in journals."—Dated 16th July, 1859.

41,629. PULS, represented by Castaignet, of 28, Rue Louis-le-Grand, Paris, for "Improvements in the treatment of hydrocarburet"—Dated 16th July, 1859.—(English Patent, 10th June, 1859.)

41,630. QUILLACQ, of Anzin, département du Nord, for "A machine for extracting coals from pits."—Dated 23rd July, 1859.

41,631. QUILLACQ, of Anzin, département du Nord, for "A pneumatic propeller for ventilating coal pits, forges, and other works."—Dated 23rd July, 1859.

41,632. RAVE and DALTROFF, of 49, Rue du Faubourg St. Martin, Paris, for "A toy called 'Parachute-ball."—Dated 14th July, 1859.

41,633. ROMAINE, represented by Mathieu, of 45, Rue Saint Sébastien, Paris, for "Improvements in moveable railways."—Dated 13th July, 1859.—(English Patent, 14th January, 1859.)

41,634. SCHEURER-BOTT, of Thann, département du Haut-Rhin, for "A machine for washing filamentous substances."—Dated 22nd July, 1859.

41,635. SCHLICHTER and STROUP, the former of 64, Boulevart de la Butte Chaumont, à la Petite-Villette, the latter of 23, Rue de Meaux, à la Villette, département de la Seine, for "Brilliant black grease for harness."—Dated 16th July, 1859.

41,636. SHALER, represented by Laviale, of 17 Boulevart des Italiens, Paris, for "Improvements in brushes."—Dated 15th July, 1859.

41,637. SOULIER, of Nîmes, for "Manufacture of vinegar."—Dated 23rd July, 1859.

41,638. TALBOT, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Apparatus for providing smokers with lights."—Dated 15th July, 1859.

41,639. WOLLHEIM, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in scales."—Dated 13th July, 1859.

41,640. ALLEN, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An instrument for indicating pressure and vacuum."—Dated 18th July, 1859.—(American Patent, 27th September, 1857.)

41,641. ARCHAMBAUD, FONTENAUD, and MESNARD domiciled 46, Rue des Fossés St. Bernard, Paris, for "A chemical process for detecting all kinds of alcohol, except that of wine in brandy."—Dated 18th July, 1859.

41,642. BALLARD, of Mâcon, for "Manufacture of artificial puzzolana."—Dated 27th July, 1859.

41,643. BOIDIN and FAUCHER, of Amiens, for "A safety apparatus for obtaining lights."—Dated 26th July, 1859.

41,644. BRUNET, of 58, Rue Consolat, Marseille, for "A small tubular sypho-hydrostatical filter."—Dated 27th July, 1859.

* For the French Patent Law see No. 228 of this Journal.

41,645. Chenet, of Allée, St. Etienne, département de la Loire, for "A field haversack."—Dated 25th July, 1859.

41,646. Collet, of 3, Rue d'Harcourt, Bolbec, département de la Seine Inférieure, for "A machine for making double and single reeds for weaving machines."—Dated 27th July, 1859.

41,647. D'Argy and Marie, of Blois, for "A pump applicable to vessels, drainage, &c."—Dated 28th July, 1859.

41,648. Dumont, of 170, Rue St. Antoine, Paris, for "Preparing bones for finishing fabrics."—Dated 18th July, 1859.

41,649. Durand, of 22, Rue Beauveau, Paris, for "Poppy-paper."—Dated 19th July, 1859.

41,650. Férand, of Nyons, département de la Drôme, for "An apparatus for taking up the ends of cocoons."—Dated 30th July, 1859.

41,651. Fichot, of 43, Rue Dauphin, Paris, for "Improvements in trusses."—Dated 19th July, 1859.

41,652. Guibal, represented by Cabany, of Anzin, département du Nord, for "Spring suspension of pulleys for extracting ores, &c."—Dated 28th July, 1859.

41,653. Jacquot, of 22, Rue de Lafayette, Paris, for "Clock bells."—Dated 18th July, 1859.

41,654. Janisson, Son, represented by Bos-Darnis, of 36, Rue de l'Echiquier, Paris, for "Muslin and gauze of lace thread."—Dated 18th July, 1859.

41,655. Lefebvre, represented by Bresson, of 57, Rue de Bretagne, Paris, for "An apparatus for vapour baths, with or without fumigations."—Dated 19th July, 1859.

41,656. Le Marchand, of 18, Rue de Malte, Paris, for "Smoothing irons."—Dated 18th July, 1859.

41,657. Lucas, of Poitiers, département de la Vienne, for "Blue for blueing linen."—Dated 29th July, 1859.

41,658. Mareuse, of Anizy-le-Château, département de l'Aisne, for "Applying sugar apparatus with a threefold action to distilling."—Dated 27th July, 1859.

41,659. Marie, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in assembling pipes of lead, caoutchouc, gutta percha, &c."—Dated 18th July, 1859.

41,660. De Marignan and Company, of Nîmes, for "A kneading machine."—Dated 26th July, 1859.

41,661. Mogtgomery, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the construction of the hulls of steam and other vessels, and in the feed-water heaters, boiler gauges, condensers, engines, and propelling machinery appertaining to the former, a portion of which improvements (with the exception of those on the hull) are applicable to various useful purposes."—Dated 18th July, 1859.—(English Patent, 17th January, 1859.

41,662. Pachez, of Villers-Allerand, département de la Marne, for "A shelter for vines."—Dated 27th July, 1859.

41,663. Roussillon, Burel, and Taylor, of 3, Rue d'Harcourt, Rouen, for "A moveable engine for towing and traction, and for various other purposes."—Dated 18th June, 1859.—(English Patent, 13th November, 1858.)

41,664. Roux, of 7, Rue St. Suffren, Marseille, for "A mill for grinding sulphur."—Dated 27th July, 1859.

41,665. Sauvage, of 11, Rue de Harlay, au Marais, Paris, for "A sculpturing machine."—Dated 19th July, 1859.

41,666. Schroeder, of 63, Rue de Chabrol, Paris, for "An apparatus for extracting beetroot juice."—Dated 18th July, 1859.

41,667. Teil, of 16, Rue du Loup, Bordeaux, for "A system of stretchers for regulating the action of whalebones of umbrellas, and for strengthening the same."—Dated 29th July, 1859.

41,668. Voxeur, of 8, Rue St. Honoré, Paris, for "Inlaid pins of buffalo horns."—Dated 18th July, 1859.

41,669. Weinberger and Dombret, of Valenciennes, département du Nord, for "Draining and working mines."—Dated 1st August, 1859.

41,670. Wolfel, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the construction of pianos."—Dated 18th July, 1859.

41,671. Avery, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in constructing, loading, and working electric batteries."—Dated 21st July, 1859.

41,672. Benezech, of 42, Rue de la Pépinière, Paris, for "A system of air tubes for water filters."—Dated 20th July, 1859.

41,673. Bosredon, of 6, Rue du Puits-qui-Parle, Paris, for "Portemonnaies, with indicators."—Dated 21st July, 1859.

41,674. Bresard, represented by Herps, of 39, Rue de l'Echiquier, Paris, for "Covers of smoking pipes."—Dated 20th July, 1859.

41,675. Camus, Giboire, and Petit, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in railway chairs."—Dated 23rd July, 1859.

41,676. Cassi-Meloni, of 44, Rue Lamartine, Paris, for "A musical instrument, called 'Harp-piano.'"—Dated 22nd July, 1859.

41,677. Crichton, represented by Basset, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of clocks or chronometers."—Dated 23rd July, 1859.—(English Patent, 5th April, 1859.)

41,678. Daelen, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for rolling plates of boilers, and process for the manufacture of such plates without rivets."—Dated 20th July, 1859.

41,679. Denuelle, of 6, Rue Duphot, Lyon, for "A cutting machine."—Dated 1st August, 1859.

41,680. Divay, of 3, Rue Crébillon, Paris, for "A machine for sawing and cutting sugar."—Dated 19th July, 1859.

41,681. Dorsett and Blythe, represented by Tardieu, of 6, Rue du Parc-Royal, Paris, for "Apparatus for preserving timber and sleepers for railways."—Dated 25th July, 1859.

41,682. Dupré, of Château Gontier, département de la Mayenne, for "A system of pins."—Dated 30th June, 1859.

41,683. Durand and Pradel, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Endless canvass for conveying earth, dredging machines, &c."—Dated 23rd July, 1859.

41,684. Fillion, of Cours Lafayette, Lyon, for "Apparatus with threefold bottoms for heating by means of steam."—Dated 20th July, 1859.

41,685. Francfort, of 22, Rue Montholon, Paris, for "A brush for dry rubbing."—Dated 22nd July, 1859.

41,686. Gargan and Company, of 7, Rue de Valenciennes, Paris, for "A cistern-carriage for conveying liquids."—Dated 23rd July, 1859.

41,689. Hirsch-Labin, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mechanism for telegraphs."—Dated 22nd, July, 1859.

41,688. Homersham, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in docks for repairing vessels for sea and inland navigation."—Dated 23rd, July, 1859.

41,689. Labolle, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A process for coating or doubling metals."—Dated 22nd July, 1859.

41,690. Lafay and Auloge, of 10, Place des Petits-Pères, Lyon, for "Toilet pomatum."—Dated 1st August, 1859.

41,691. Laubereau, of 17, Rue Louis le Grand, Paris, for "A kind of motor."—Dated 20th July, 1859.

41,692. Lebeure, jun., represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "A so-called 'Carboniferous apparatus for throwing reducing substances into blast furnaces.'"—Dated 22nd July, 1859.

41,693. Le Mat, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in cannons."—Dated 20th July, 1859.

41,694. Le Mat, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in revolvers."—Dated 20th July, 1859.

41,695. Letestu, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A moveable roller."—Dated 21st July, 1859.

41,696. Meunier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of petticoats."—Dated 21st July, 1859.

41,697. Moreau, of Rue du Parc-Royal, Paris, for "A freezing apparatus."—Dated 21st July, 1859.

41,698. Mushet, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast steel, steel-iron, and iron."—Dated 21st July, 1859.—(English Patent, 24th January, 1859.)

41,699. Poncet, domiciled at 9, Rue Joubert, Paris, "Drying fecula."—Dated 23rd July, 1859.

41,700. Prapp, of 21, Rue Feydeau, Paris, for "A French sewing machine."—Dated 20th July, 1859.

41,701. Turck, of 1, Rue d'Amance, Malzéville, near Nancy, for "A process for crystallizing salt."—Dated 2nd August, 1859.

41,702. Wardill, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A break for stopping chains, ropes, and cables."—Dated 21st July, 1859.—(English Patent, 15th December, 1858.)

41,703. Aspinall, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in machines for making bolts, rivets, and nails."—Dated 27th July, 1859.—(English Patent, 6th January, 1859.)

41,704. Bergounioux and Richard, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Tissues of barege, chalys, gauze, &c., without wrong sides."—Dated 25th July, 1859.

41,705. De Bienville, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A mechanism for obtaining a continuous movement."—Dated 27th July, 1859.

41,706. Blondel, domiciled with Bresson, of 57, Rue de Bretagne, Paris, for "Frames of cast-iron."—Dated 27th July, 1859.

41,707. Bonneville, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "A system of monuments, called 'Useful columns' (urinals)."—Dated 25th July, 1859.

41,708. Borel, jun., represented by Bresson, of 57, Rue de Bretagne, Paris, for "Velvet designs on open worked tissues."—Dated 27th July, 1859.

41,709. Calvet, of 66, Boulevart Montparnasse, Paris, for "Modification of the colours of carthamus and murexide."—Dated 27th July, 1859.

41,710. Delarras, of 177, Rue de Vaugirard, Paris for "A system of iron bellows for forges."—Dated 25th July, 1859.

41,711. Destrat, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in using sealing wax."—Dated 27th July, 1859.

41,712. Drouin, of la Briche, near St. Denis, département de la Seine, for "A colouring substance."—Dated 25th July, 1859.

41,713. Dubois, of 3, Rue de Bretagne, Paris, for "Moveable hooks."—Dated 25th July, 1859.

41,714. Duncan, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in transmitting signals of electric telegraphs, in insulating substances of conductors, in electric cables, in using certain parts of said cables, in certain insulating compounds, and in certain apparatus relating thereto."—Dated 26th July, 1859.—(English Patent, 30th December, 1858.)

41,715. Glatigny, of 45, Rue de Grenelle, St. Honoré, Paris, for "A kind of register."—Dated 27th July, 1859.

41,716. Greffier, of 7, Avenue de St. Denis, Passy, département de la Seine, for "An apparatus for making gaseous liquids, and implements belonging thereto."—Dated 25th July, 1859.

41,717. Guérin, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A system of balances with equal arms."—Dated 27th July, 1859.

41,718. Julien, domiciled with Bresson, of 57, Rue de Bretagne, Paris, for "Clasps of books."—Dated 27th July, 1859.

41,719. Kugler, Plaz, and Rexroth, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in sewing machines."—Dated 27th July, 1859.

41,720. Laviron, of 11, Rue Pigalle, Paris, for "A smoke-consuming reservoir."—Dated 27th July, 1859.

41,721. Mager and Aurean, of 11, Rue des Fossés Montmartre, Paris, for "Improvements in the construction of suspension springs of carriages in general."—Dated 25th July, 1859.

41,722. Mager and Aurean, of 11, Rue des Fossés Montmartre, Paris, for "Using rollers for lessening the action of passive resistance in the movement of carriage wheels in general."—Dated 25th July, 1859.

41,723. Paine, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of motor."—Dated 25th July, 1859.—(English Patent, 20th July, 1859.)

41,724. Rawson, represented by Basset, of 14, Boulevart Montmartre, Paris, for "Improvements in machines for preparing wool and other fibrous substances."—Dated 26th July, 1859.—(English Patent, 27th February, 1859.)

41,725. Réal, Brothers, of 17, Rue des Jeûneurs, Paris, for "Improvements in the manufacture of tiles."—Dated 26th July, 1859.

41,726. Reynaud, domiciled with Brun, of 36, Rue de l'Université, Paris, for "Improvements in towing boats by means of a fixed apparatus."—Dated 25th July, 1859.

41,727. Robertson, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in apparatus for propelling vessels on canals, rivers, and lakes of small depth."—Dated 25th July, 1859.—(English Patent, 28th January, 1859.)

41,728. Stuart Perry, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "An apparatus for exhibiting stereoscopic pictures."—Dated 27th July, 1859.—(American Patent, 7th June, 1859.)

41,729. Toussaint, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Travelling and other bags with secret pockets."—Dated 28th July, 1859.

41,730. Truelle, domiciled with Mirault, of 49, Rue Montorgueil, Paris, for "Billiard cues, and mode of making the same."—Dated 26th July, 1859.

41,731. Vernay, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "An apparatus for ranging casks upon each other."—Dated 27th July, 1859.

41,732. Vert, of 6, Rue de Lyon, Paris, for "An aerial machine."—Dated 25th July, 1859.

41,733. Vidal, of 66, Faubourg du Temple, Paris, for "An apparatus for destroying insects."—Dated 26th July, 1859.

41,734. Vollot, of 115, Rue des Dames, aux Batignolles, département de la Seine, for "A belt for petticoats."—Dated 26th July, 1859.

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39,989. Achet, for "A break."—Dated 14th June, 1859.

37,847. Anger, for "Varnish."—Dated 14th June, 1859.

29,860. Anquetin, for "Watches."—Dated 16th June, 1859.

37,021. Barrat, for "A moveable engine."—Dated 15th June, 1859.

37,437. Beslay, for "Tinning."—Dated 22nd June, 1859.

38,024. Besson and Girardin, for "A musical instrument."—Dated 24th June, 1859.

34,286. Biron and Pongowski, for "Alcohol."—Dated 30th June, 1859.

39,347. Boche, sen., for "Cartridges."—Dated 16th June, 1859.

40,089. Bonière, jun., for "Lubricating."—Dated 16th June, 1859.

30,396. Bonnin, for "Pipes."—Dated 14th June, 1859.

30,029. Bret, for "A bobbin machine."—Dated 27th June, 1859.

37,187. Breton, for "A musical instrument."—Dated 11th June, 1859.

18,932. Callebaut, for "A sewing machine."—Dated 21st June, 1859.

41,232. Crabathi and Feugeas, for "A porte-monnaie."—Dated 28th June, 1859.

30,195. Darcet and Co., for "Distilling."—Dated 28th June, 1859.

23,196. Davoust, for "Cartridges."—Dated 21st June, 1859.

38,228. Donnet, for "A gauge."—Dated 28th June, 1859.

37,161. Gosteau, for "A gridiron."—Dated 22nd June, 1859.

41,368. Gueyton, for "Enamelling."—Dated 21st June, 1859.

41,368. Gueyton, for "Enamelling."—Dated 24th June, 1859.

1,368. Gueyton, for "Enamelling."—Dated 28th June, 1859.

40,396. Guichard, for "A screw plate."—Dated 27th June, 1859.

39,840. Hanon, jun., for "Glue."—Dated 22nd June, 1859.

38,463. Koehler for "Axles."—Dated 19th April, 1859.

40,563. Kugler, Plaz, and Rexroth, for "Sewing."—Dated 16th June, 1859.

35,976. Monroy, for "Hats."—Dated 28th June, 1859.

29,660. Morane, for "Candles."—Dated 18th June, 1859.

40,441. Papillon, for "Combustion."—Dated 16th June, 1859.

41,408. Parisod, for "Fuel."—Dated 28th June, 1859.

39,277. Pierrard and Bailly, for "Weighing."—Dated 24th June, 1859.

40,863. Pissot, for "Pictures."—Dated 17th June, 1859.

37,108. Pons, for "Clocks."—Dated 18th June, 1859.

40,892. Rosnay, for "A smoke-consuming apparatus."—Dated 18th June, 1859.

37,077. Rousserie, for "Smoothing irons."—Dated 21st June, 1859.

32,948. Saintard, for "A break."—Dated 24th June, 1859.

36,332. Scheibel, for "Corn."—Dated 17th June, 1859.

32,881. Thauvin, for "Mills."—Dated 18th June, 1859.

24,921. Thomas and Laurens, for "A boiler."—Dated 18th June, 1859.

37,141. Trottier, for "Wheels."—Dated 27th June, 1859.

40,020. Zammaretti, for "A stove."—Dated 11th June, 1859.

37,282. Bonchard, for "A ventilator of millstones."—Dated 6th July, 1859.

36,212. Bouillon, Muller, and Co., for "Washing."—Dated 28th June, 1859.

37,087. Callebaut, for "Sewing."—Dated 9th July, 1859.

41,169. Charbonnier, for "Sparkling wine."—Dated 18th July, 1859.

39,642. Claise, for "Sets of teeth."—Dated 30th June, 1859.

37,319. Denjean and Theodore, for "Cutting paper."—Dated 14th July, 1859.

40,711. Deschin, for "A pump."—Dated 11th July, 1859.

37,190. Dromart and Dussilol, for "Distilling."—Dated 29th June, 1859.

40,845. Duval and Joviaux, for "Gas."—Dated 2nd July, 1859.

41,004. Eckhorn, for "Gas burners."—Dated 11th July, 1859.

31,683. Ellie, sen., for "A mill."—Dated 30th June, 1859.

39,424. Evras, for "Ladies' pages."—Dated 2nd July, 1859.

39,969. Fontaine, for "Fabrics."—Dated 15th July, 1859.

18,746. Frezard, for "Locomotives."—Dated 30th June, 1859.

23,634. Fuselier, for "Projectiles."—Dated 14th July, 1859.

40,716. Grivotet, for "Hooks."—Dated 4th July, 1859.

31,398. Halter, for "Pipes."—Dated 1st July, 1859.

23,001. Herrmann, for "Hydraulics."—Dated 7th July, 1859.

36,191. Kessler, for "A chemical product."—Dated 2nd July, 1859.

19,704. La Mothe, for "A railway."—Dated 6th July, 1859.

37,293. Lançon, for "Watches."—Dated 2nd July, 1859.

39,879. Lenoir, for "A chemical product."—Dated 14th July, 1859.

40,235. Leoni, for "Silicate."—Dated 4th July, 1859.

36,007. Lerot, for "Watches."—Dated 4th July, 1859.

37,683. Loncq and Lecerf, for "Burling."—Dated 29th June, 1859.

39,848. Masbon, for "Clockwork."—Dated 28th June, 1859.

41,117. Moissard for "Shirts."—Dated 1st July, 1859.

40,922. Morot, for "Locks."—Dated 2nd July, 1859.

37,332. Onfroy and Co., for "Printing fabrics."—Dated 8th July, 1859.

39,819. Perrin, for "Revolvers."—Dated 9th July, 1859.

38,504. Poivret, for "Tricot."—Dated 8th July, 1859.

38,504. Poivret, for "Tricot."—Dated 18th July, 1859.

49,281. Reiss, for "A jack."—Dated 11th June, 1859.

37,369. Rondelet, for "Little parasols."—Dated 11th July, 1859.

34,938. Sebille, for "Pipes."—Dated 13th July, 1859.

32,098. Stenger and Niemann, for "A steam boiler."—Dated 15th June, 1859.

37,430. Tobie, for "Artillery."—Dated 6th July, 1859.

40,672. Vidal, for "Washing."—Dated 2nd July, 1859.

37,244. Villot, for "Cleaning."—Dated 30th June, 1859.

40,900. André, for "Preparing wood."—Dated 16th July, 1859.

38,609. Bailly, for "Washing."—Dated 12th July, 1859.

37,436. Barabé, for "Capsules for sockets."—Dated 21st July, 1859.

26,480. Baudelot, for "A freezing apparatus."—Dated 25th July, 1859.

39,991. Beau, for "A box for keeping thread."—Dated 12th July, 1859.

40,060. Boyer-Charles, for "A steam boiler."—Dated 14th July, 1859.

37,346. Camus, Giboire, and Petit, for "A railway."—Dated 16th July, 1859.

41,131. Chantrel, for "Beetroot juice"—Dated 16th July, 1859.

33,119. Compoint, for "A planting apparatus."—Dated 15th July, 1859.

28,295. Dandoy-Maillard, Lucq, and Co., for "A wrench."—Dated 12th July, 1859.

37,380. Delaurier, for "An expansion engine."—Dated 14th July, 1859.

37,473. Delormas and Terrel, for "A Railway."—Dated 26th July, 1859.

34,567. Delrue, Brothers, for "Holing iron."—Dated 29th July, 1859.

25,590. Desseaux, for "Oakum."—Dated 11th February, 1859.

33,191. Digney, Brothers, and Co., for "Telegraphs."—Dated 13th July, 1859.

31,526. Dulournel, for "Ores."—Dated 16th July, 1859.

41,268. Gallé, for "Advertizing."—Dated 13th July, 1859.

37,355. Galy-Cazalat, for "Metallurgy."—Dated 12th July, 1859.

24,708. Gibus and Son, for "Hats."—Dated 13th July, 1859.

37,878. Gitton-Lefranc, for "Fringes of shawls."—Dated 15th July, 1859.

37,609. Gondenove and Feret, for "Closing."—Dated 2nd July, 1859.

35,412. Hirtz, for "Chairs."—Dated 25th July, 1859.

40,072. Joret, for "A horse gin."—Dated 18th July, 1859.

28,270. Lacroix, jun, for "Weaving."—Dated 20th July, 1859.

39,811, Lacroix, and Laroche and Lacroix, for "Gauze wire."—Dated 5th May, 1859.

41,144. Lamiral, for "Iron fastenings."—Dated 13th July, 1859.

37,548. Léotard, for "A motor."—Dated 22nd July, 1859.

37,751. Leyer, for "Spinning."—Dated 18th July, 1859.

37,484. Madeline, for "Carding."—Dated 23rd July, 1859.

36,193. Martin, for "A steam engine."—Dated 16th July, 1859.

37,685. Mengarduque, for "Stoppering."—Dated 15th July, 1859.

38,986. Meslin, for "A press for liquids."—Dated 12th July, 1859.

34,740. Moufflet, for "Torrefying."—Dated 13th July, 1859.

37,718. Mourceau, for "Tissues."—Dated 19th July, 1859.

38,303. Pellissier, for "A railway-break."—Dated 28th July, 1859.

38,504. Poivret, for "Tricot."—Dated 25th July, 1859.

21,925. Raveneau, for "Hydraulics."—Dated 12th July, 1859.

39,921. Schneider, for "A travelling bag."—Dated 6th July, 1859.

39,692. Sloan, for "Doors."—Dated 13th July, 1859.

In course of Publication, by Order of the Commissioners of Patents.

ABRIDGMENTS (in Classes, and Chronologically arranged) of all SPECIFICATIONS of PATENTED INVENTIONS, from the earliest enrolled to those published under the Act of 1852.

These books are of 12mo size, and as each is limited to inventions of one class only, they can be sold at prices sufficiently moderate to enable the humblest inventor to examine for himself whether his discovery has been previously patented or not.

At the foot of each abstract are given references to notices of the inventions in scientific and other works, and to the reports of law proceedings for infringements, &c. &c. &c.

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The following are in the press:—

Preparation of Fuel, and Apparatus for its Combustion.
Production and Applications of Gas.
Steam Engines.
Metals and Alloys.

B. Woodcroft.

The above, and all other works published by the Commissioners of Patents, are now on sale at the Great Seal Patent Office, 25, Southampton Buildings, Holborn.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 622. TUESDAY, DECEMBER 20, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1792. TULLIUS PRIEST FAY, of Liverpool, in the county of Lancaster, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in machinery or apparatus for obtaining and applying motive power."

As set forth in his petition, recorded in the said office on the 3rd day of August, 1859.

1828. And JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, has given the like notice in respect of the invention of "An improved signal light and in the apparatus employed in the production thereof."—A communication from abroad by Messrs. Silas and Pegot Ogier, of Paris, in the empire of France.

1833. And THOMAS BLINKHORN and RICHARD BLINKHORN, both of the New Road, Spalding, in the county of Lincoln, Engineers, have given the like notice in respect of the invention of "An improved composition for removing scale or fur from the interior of boilers, and also for preventing the formation of scale or fur therein"

As set forth in their respective petitions, both recorded in the said office on the 8th day of August, 1859.

1835. And THOMAS DUNN, of the city of Manchester, Engineer, has given the like notice in respect of the invention of "Improvements in machinery and apparatus for elevating and regulating the level and flow of liquids, part of which is applicable for propelling vessels."

As set forth in his petition, recorded in the said office on the 9th day of August,, 1859.

1852. And GEORGE CAPPER, of Bidborough Street, New Road, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in the permanent way of railways."

1854. And JOHN JAMES SPEED, the younger, of the city of Detroit, in the United States of America, Telegraph Engineer, has given the like notice in respect of the invention of "Improvements in the manufacture of pipes, tubes, and hollow cylinders."

As set forth in their respective petitions, both recorded in the said office on the 10th day of August, 1859.

1859. And DAVID HULETT, of 55 and 56, High Holborn, London, Gas Engineer, and GEORGE PRUDDEN, of Shefford Beds, Gas Engineer, have given the like notice in respect of the invention of "Improvements in apparatus for the manufacture and distribution of gas, and in apparatus applicable for internal or external illumination."

As set forth in their petition, recorded in the said office on the 11th day of August, 1859.

1863. And AUGUSTE EVAUX, of 206, Regent Street, London, has given the like notice in respect of the invention of "Artificial marbles."

1865. And JAMES PHILP, of Camden Town, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improved hobby-horse or child's exerciser."

As set forth in their respective petitions, both recorded in the said office on the 12th day August, 1859.

1871. And ROBERT CLEGG, of Islington, in the county of Middlesex, and RICHARD FELL, of Saint Ann's Place, Limehouse, in the county of Middlesex, have given the like notice in respect of the invention of "Apparatus for obtaining aerated fresh water from salt water."

1876. And ELIAS SLOMAN, of Upper East Smithfield, in the county of Middlesex, has given the

like notice in respect of the invention of "An improved feed water and heating apparatus." — A communication from Gottfreyd May, resident at Magdeburch, in the kingdom of Prussia.

1878. And COLIN MATHER, of Salford, in the county of Lancaster, Mechanical Engineer, has given the like notice in respect of the invention of "Improvements in machinery for stretching, drying, and finishing fabrics."

As set forth in their respective petitions, all recorded in the said office on the 13th day of August, 1859.

1881. And CHARLES KISKY, of King Street, Camden Town, in the county of Middlesex, Cabinet Maker, and WILLIAM JONES, of Howland Street, Fitzroy Square, in the same county, Builder, have given the like notice in respect of the invention of "Improvements in the construction of sideboards."

1883. And JOHN CHANTER, of Bow Road, Proprietor of Patents, and DAVID ANNAN, Engineer, of Bow, both in the county of Middlesex, have given the like notice in respect of the invention of "Improvements in apparatus for supplying air to furnaces."

1884. And EDWARD STONE, of 46, Lime Street, in the city of London, Merchant, has given the like notice in respect of the invention of "Improvements in machinery for cutting veneers."—A communication from abroad by John Ahsbohs, residing at New York, United States of America.

As set forth in their respective petitions, all recorded in the said office on the 15th day of August, 1859.

1887. And HENRY BATCHELOR, of Newport, Monmouthshire, Engineer, has given the like notice in respect of the invention of "Improvements in steam and other motive power engines."

As set forth in his petition, recorded in the said office on the 16th day of August, 1859.

1892. And JAMES SIDEBOTTOM, of Waterside, in the county of Derby, Cotton Spinner, has given the like notice in respect of the invention of "Certain improvements in power looms for weaving."

As set forth in his petition, recorded in the said office on the 17th day of August, 1859.

1901. And HYAM JACOB HYAMS, of Holywell Street, in the city of Westminster, Gas Meter Maker, has given the like notice in respect of the invention of "Improvements in the construction of wet gas meters."

As set forth in his petition, recorded in the said office on the 18th day of August, 1859.

1905. And WILLIAM THOMAS HENLEY, Telegraph Engineer, of St. John Street Road, Clerkenwell, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in machinery for the manufacture of ropes and cables, and for paying out and picking up submarine telegraph cables."

1908. And JOHN FOWLER, junior, ROBERT BURTON, and DAVID GREIG, junior, all of Cornhill, in the city of London, EDWARD ELLIS ALLEN, of Park Side, Knightsbridge, and WILLIAM WORBY, of Ipswich, have given the like notice in respect of the invention of "Improvements in ploughs, cultivators, or tilling implements, and in machinery for giving motion to the same by steam power."

As set forth in their respective petitions, both recorded in the said office on the 19th day of August, 1859.

1918. And HENRY SPRATT, of the Royal Marine Barracks, Plymouth, in the county of Devon, Captain, Royal Marines, has given the like notice in respect of the invention of "Improvements in revolving pistols and other fire-arms."

As set forth in his petition, recorded in the said office on the 22nd day of August, 1859.

1936. And THOMAS BRIGGS, of Richmond Hill Works, Salford, in the county of Lancaster, Tarpauling and Oil Cloth Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of tarpauling."

As set forth in his petition, recorded in the said office on the 24th day of August, 1859.

1953. And WILLIAM HENRY BALMAIN, of Saint Helens, in the county of Lancaster, Manufacturing Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of glass and other vitrified substances."

As set forth in his petition, recorded in the said office on the 27th day of August, 1859.

1986. And JAMES SAMUEL, of Great George Street, in the city of Westminster, Civil Engineer, has given the like notice in respect of the invention of "Improvements in railway sleepers."

As set forth in his petition, recorded in the said office on the 31st day of August, 1859.

1992. And JAMES BRINE, of Maidstone, in the county of Kent, Stationer and Printer, has given the like notice in respect of the invention of "Improvements in the mode of preparing, arranging, and combining the leaves of books to be used for producing simultaneously one or more fac-simile copies of letters, accounts, or other such similar documents or writings."

As set forth in his petition, recorded in the said office on the 1st day of September, 1859.

2075. And FLORIDE HEINDRYCKX, of Brussels, in the kingdom of Belgium, Engineer, has given the like notice in respect of the invention of "Improvements applicable to railways or tramways."

As set forth in his petition, recorded in the said office on the 12th day of September, 1859.

2114. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in mechanical hammers."—A communication from abroad by Jean Schmerber, of Haut Rhin, in the empire of France.

2115. And JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Further improvements in brakes for railway carriages."—A com-

munication from abroad by Laurent Rigolier, of Rhône, in the empire of France.

2118. And Jozé Luis, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "Improvements in cooling apparatus for liquids, especially beer."—A communication from abroad by Jean Louis Baudelot, Paris, in the empire of France.

2119. And Jozé Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "An improved disc and lantern signal with double repeaters."—A communication from abroad by Jules Rousseau, of Paris, in the empire of France.

As set forth in his respective petitions, all recorded in the said office on the 17th day of September, 1859.

2151. And William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improved mode of, and apparatus for, condensing the waste steam of marine engines."—A communication from abroad by Messrs. Mazeline and Co., of Paris, in the empire of France.

As set forth in his petition, recorded in the said office on the 21st day of September, 1859.

2194. And Edmund Small Cathels and Samuel Splatt, both of Dover, in the county of Kent, have given the like notice in respect of the invention of "Improvements in gas meters."

As set forth in their petition, recorded in the said office on the 28th day of September, 1859.

2248. And John Mitchell Rose and Richard Carte, of the firm of Rudall, Rose, Carte, and Company, of Charing Cross, in the city of Westminster, Musical Instrument Makers, and William Pikesley, Mechanic, in the employ of Rudall, Rose, Carte, and Company aforesaid, have given the like notice in respect of the invention of "Improvements in drums."

As set forth in their petition, recorded in the said office on the 4th day of October, 1859.

2320. And James Carrick, Hotel Proprietor, Glasgow, has given the like notice in respect of the invention of "Improvements in commodes, waterclosets, and other sanitary appliances."

As set forth in his petition, recorded in the said office on the 12th day of October, 1859.

2462. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "Improved threads for weaving and a machine for making the same, which is also applicable to the winding or coating of one thread with another."—A communication from abroad by Alphonse Loiseau, of Bernay, France.

As set forth in his petition, recorded in the said office on the 27th day of October, 1859.

2496. And Richard Heinrich Hess, of Newton Street, Hoxton, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "Improvements in gas burners."

As set forth in his petition, recorded in the said office on the 2nd day of November, 1859.

2507. And Etienne Juzet, of 29, Boulevart St. Martin, Paris, in the empire of France, Mechanician, has given the like notice in respect of the invention of "Improvements in lubricating apparatus."

As set forth in his petition, recorded in the said office on the 4th day of November, 1859.

2577. And John Madin, of Fitzwilliam Street, Sheffield, in the county of York, Contractor, has given the like notice in respect of the invention of "Improvements in furnaces and appliances connected therewith, for hardening and tempering crinoline or sheet steel, and measuring the same."

As set forth in his petition, recorded in the said office on the 14th day of November, 1859.

2607. And Richard Laming, of Clifton Villas, Maida Hill West, in the county of Middlesex, has given the like notice in respect of the invention of "Improvements in obtaining alkalies and alkaline compounds."

As set forth in his petition, recorded in the said office on the 17th day of November, 1859.

2635. And George William Lenox, of Billiter Square, in the city of London, has given the like notice in respect of the invention of "Improvements in the manufacture of ships' blocks."

As set forth in his petition, recorded in the said office on the 21st day of November, 1859.

2672. And Matthew Tildesley, of Willenhall, in the county of Stafford, Lock Manufacturer, has given the like notice in respect of the invention of "Improvements in locks and latches."—Partly a communication from abroad by John Bisset, a citizen of the United States of America, residing in New York.

As set forth in his petition, recorded in the said office on the 25th day of November, 1859.

2699. And John Barker Berger, of Upper John Street, Fitzroy Square, in the county of Middlesex, Master Mariner, has given the like notice in respect of the invention of "An improved mode of and apparatus for facilitating the calculations required for navigating ships or vessels."

As set forth in his petition, recorded in the said office on the 29th day of November, 1859.

2729. And Thomas Frederick Brabson, of Birmingham, in the county of Warwick, Brassfounder, has given the like notice in respect of the invention of "Improvements in door springs."

As set forth in his petition, recorded in the said office on the 2nd day of December, 1859.

2741. And Richard Bond, of Burnley, in the county of Lancaster, "Temple" and "Roller" Maker, and William Hayhurst, of the same place, Mechanic, have given the like notice in respect of the invention of "Improved machinery or apparatus to be employed in the manufacture of a certain description of 'temples' used in power looms for weaving."

As set forth in their petition, recorded in the said office on the 3rd day of December, 1859.

2743. And NATHANIEL CLAYTON and JOSEPH SHUTTLEWORTH, of the city of Lincoln, have given the like notice in respect of the invention of "Improvements in steam boiler safety valves."

As set forth in their petition, recorded in the said office on the 3rd day of December, 1859.

2751. And CHARLES SHORT, of Westwood, in the parish of Selston, in the county of Nottingham, Smith, THOMAS BOWES SMEETON, of Underwood, in the said county of Nottingham, Farmer, and WILLIAM BOWLER, of Butterley Park, in the parish of Pentrich, in the county of Derby, Farmer, have given the like notice in respect of the invention of "The manufacture of bricks, tiles, drain-pipes, or other articles from cinder or refuse slag."

As set forth in their petition, recorded in the said office on the 5th day of December, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

17th December, 1859.

1461. DAVID DEAS, of Carneil, in the county of Fife, North Britain, Farmer, for an invention of "Improvements in reaping machines." — Dated 17th June, 1859.

1469. ALFRED JEFFERY, of the Commercial Road, in the parish of Limehouse, in the county of Middlesex, Manufacturer, for an invention of "An improved mode of giving rotary motion to projectiles fired from rifled fire-arms."—Dated 18th June, 1859.

1471. RICHARD HARPER, Lace Maker, and ROBERT STOKES, Lace Maker, and THOMAS WALKER, Clock Maker, each of Derby, in the county of Derby, for an invention of "An improvement in the manufacture of chenille bonnet wreaths and bonnet feathers."—Dated 18th June, 1859.

1475. PAUL FRANÇOIS AERTS, formerly of Brussels, in the kingdom of Belgium, but now residing in London, England, Civil Engineer, for an invention of "Improved apparatus for lubricating railway rolling stock and the moving parts of machinery."—Dated 18th June, 1859.

1481. CHARLES LOUIS JOSEPH DIERICKX, Director of the Paris Mint, of the Hotel des Monnaies, in the city of Paris, for an invention of "Improvements in coining."—Dated 20th June, 1859.

1495. WILLIAM COLES FULLER, of 2, Bucklersbury, Cheapside, London, Patent Spring Manufacturer, for an invention of "Improvements in india-rubber shackles and in springs for carriages, and the metal fittings connected therewith."—Dated 21st June, 1859.

1533. GEORGE WRIGLEY, of the firm of Messieurs Cryer, Lees, and Company, of Dukinfield, in the county of Chester, Machine Makers, and THOMAS HIRAM WRIGLEY, of Mossley, in the county of York, Overlooker, for an invention of "Improvements in self-acting mules for spinning and doubling."—Dated 27th June, 1859.

1593. JAMES MCINTOSH, of Glasgow, in the county of Lanark, North Britain, Tanner and Currier, for an invention of "Improvements in the manufacture of leather driving belts."—Dated 5th July, 1859.

1747. EDWARD HUNT and HENRY DAVIS POCHIN, both of Salford, in the county of Lancaster, Chemists, for an invention of "Improved resin and resinous substances."—Dated 28th July, 1859.

2181. WILLIAM AIREY, of Brighouse, in the county of York, and JAMES CLAYTON, of Golcar, in the same county, for an invention of "Improvements in machinery or apparatus for preparing silk, wool, cotton, flax, or other fibrous substances for spinning."—Dated 27th September, 1859.

20th December, 1859.

1479. JOHN COX, Saddlers' Ironmonger, of Birmingham, in the county of Warwick, and SAMUEL FRANKHAM and MOSES FRANKHAM, Bit, Stirrup, and Spur Manufacturers, of Walsall, in the county of Stafford, for an invention of "Certain improvements in spurs for military and general use."—Dated 20th June, 1859.

1485. WILLIAM ROWAN, of the firm of John Rowan and Sons, Engineers, of Belfast, in the county of Antrim, for an invention of "Improvements in the generation of steam."—Dated 20th June, 1859.

1489. EDWARD GWYN, of Islington, in the county of Middlesex, Gas Engineer, for an invention of "Improvements in breech-loading fire-arms."—A communication from abroad by Henry Gross, residing in Ohio, United States of America. — Dated 21st June, 1859.

1492. JAMES MEIKLE, of 79, Rumford Street, Glasgow, for an invention of "Improvements in coating iron ships with asphalte, which improvements are also applicable to coating other surfaces."—Dated 21st June, 1859.

1496. EBENEZER OLIVER, of King William Street, in the city of London, for an invention of "Improved medicinal mixtures for the cure of rheumatism, tic-doloreux, lumbago, cramp, sciatica, and such like complaints." — Dated 21st June, 1859.

1499. ANDREW BARCLAY, of Kilmarnock, in the county of Ayr, Engineer, for an invention of "Improvements in steam hammers and pile driving machines."—Dated 22nd June, 1859.

1506. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the county of Gloucester, for an invention of "Improvements in the manufacture of wheels for carriages and engines."—Dated 22nd June, 1859.

1510. ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the empire of France, for an invention of "An improvement in the working and securing of sliding tubes, applicable to gas chandeliers, lamps, and other purposes."—Dated 23rd June, 1859.

1512. George Charles Grimes, of Wandsworth, in the county of Surrey, for an invention of "Improvements in cigar or such like lights, and in the means of producing them."—Dated 23rd June, 1859.

1516. William Lister, junior, Master Mariner, and Thomas Gilbert Garrick, Agent, both of Sunderland, in the county of Durham, for an invention of "Improvements in ships' windlasses and other like apparatuses, applicable also to the steering of ships."—Dated 24th June, 1859.

1522. Prosper Faure and Jules Pernod, of Avignon, in the empire of France, for an invention of "An improved process for utilizing the residues of madder in the manufacture of garancine, and other preparations of madder."—Dated 24th June, 1859.

1524. Thomas Howard, of King and Queen Iron Works, Rotherhithe, in the county of Surrey, Engineer, for an invention of "Improvements in condensing steam in engines where superheated steam is used."—Dated 25th June, 1859.

1528. John Roberts, of Upnor, in the county of Kent, Terra Cotta Manufacturer, for an invention of "Improvements in filters."—Dated 25th June, 1859.

1537. Thomas Leigh, of St. Mary Cray, in the county of Kent, Millwright, and Job Line, of the same place, Paper Maker, for an invention of "An improvement in paper-making machinery."—Dated 27th June, 1859.

1542. James Nash, of Mill Wall, in the county of Middlesex, Smith, for an invention of "An improvement in the form and in the method of holding and releasing the tumbling hook of disengaging blocks."—Dated 29th June, 1859.

1546. Thomas Wight, of Middlesborough-on-Tees, in the county of York, Foundry Manager, for an invention of "Improvements in the apparatus used in the manufacture of cast-metal pipes and castings, termed corebars or spindles and chaplets."—Dated 29th June, 1859.

1562. Jeptha Avery Wilkinson, of Brooklyn, in the state of New York, United States of America, for an invention of "Improvements in printing presses and apparatus connected therewith."—Dated 30th June, 1859.

1577. Mark Bogg, of Duggleby, near Malton, in the county of York, Joiner, for an invention of "Improvements in washing machines."—Dated 1st July, 1859.

1604. Charles Hagan, Clerk of Works, Tower of London, for an invention of "Improvements in apparatus for curing smoky chimneys, and preventing down draught."—Dated 6th July, 1859.

1617. William Robinson, of Wembdon, Bridgewater, in the county of Somerset, Brewer, for an invention of "Improvements in cask washing machines."—Dated 7th July, 1859.

1629. William Horatio Harfield, of Fenchurch Street, in the city of London, for an invention of "Improvements in ships' capstans and riding bits."—Dated 8th July, 1859.

1631. John Taylor, of Roupell Park, Streatham Hill, in the county of Surrey, for an invention of "Improvements in the construction of walls to prevent damp from rising, and also in tiles to be used for this purpose in building walls."—Dated 8th July, 1859.

1636. Michael Henry, of 84, Fleet Street, in the city of London, Patent Agent, for an invention of "Improvements in the manufacture of overshoes, and other articles worn on the feet, and in the apparatus employed therein."—A communication from abroad by Louis Alfred d'Hennin, Mathilde Catherine Georgette Ponceot, and Caliste Bloisbluche, all of Paris, in the French empire.—Dated 9th July, 1859.

1653. Camille Joseph Proal, of No. 4, South Street, Finsbury, London, Gentleman, for an invention of "The application of photographic impressions or pictures upon fabrics or tissues for rendering such fabrics or tissues applicable to various useful purposes."—A communication from abroad by Jules Bernard, of Paris, France.—Dated 12th July, 1859.

1678. William Orme Carter, of 12, South John Street, Liverpool, in the county of Lancaster, for an invention of "Improvements in machinery for sawing slate."—Dated 15th July, 1859.

1681. Julian Bernard, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for an invention of "Improvements in the construction and arrangement of hydraulic and other pumps for forcing liquids and for obtaining pressure."—Dated 16th July, 1859.

1683. Christopher Pottinger, of Anstruther, in the county of Fife, North Britain, Boat Builder, for an invention of "Improvements in machinery or apparatus for dredging or excavating, and for driving piles."—Dated 16th July, 1859.

1695. William Horatio Harfield, of Fenchurch Street, in the city of London, for an invention of "Improvements in apparatus employed in getting ships' anchors and in shackling chains."—Dated 18th July, 1859.

1712. George Welch, of Birmingham, in the county of Warwick, Manufacturer, for an invention of "An improvement or improvements in the manufacture of frames for mirrors, pictures, and other articles."—Dated 21st July, 1859.

1726. William Horatio Harfield, of Fenchurch Street, in the city of London, for an invention of "Improvements in capstans, riding bits, and stoppers, for working with chains."—Dated 23rd July, 1859.

2176. Richard Kay, of Busby, in the county of Renfrew, North Britain, Bleacher, for an invention of "Improvements in preparing and bleaching textile fabrics and materials, and in the machinery or apparatus employed therein."—Dated 26th September, 1859.

2214. Edward Sonneborn, of Lüdge, in Westphalia, kingdom of Prussia, and now residing at 39, Finsbury Square, London, for an invention of "An improvement in the manufacture of cement."—Dated 30th September, 1859.

2392. Charles Seton, of Edinburgh, in the county of Mid Lothian, Coach Builder, for an invention of "Improvements applicable to the wheels of carriages generally for the purpose of reducing the draught thereof."—Dated 19th October, 1859.

2439. Edwin Ellis, of St. Anns, Wells Road, Nottingham, for an invention of "Improvements in the manufacture of lace, and in apparatus employed therein."—Dated 25th October, 1859.

2477. James Alfred Turner, of the city of Manchester, in the county of Lancaster, Paper Manufacturer, for an invention of "Improvements in rendering paper waterproof."—Dated 31st October, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 17th December*, 1859, *inclusive.*)

16th December.

2993. Godwin Meade Pratt Swift, Viscount Carlingford, of Swiftseath, county Kilkenny, for an invention of "An aërial chariot or apparatus for navigating the air."—Dated 17th December, 1856.

2995. Francis Barber Howell, of Lebanon, Ohio, in the United States of America, and of No. 36, High Holborn, in the county of Middlesex, Farmer, for an invention of "Improvements in machinery for cutting or making corks."—A communication.—Dated 18th December, 1856.

17th December.

3002. Charles Fay, of Manchester, in the county of Lancaster, Railway Carriage Builder, for an invention of "Improvements in railway carriages and breaks."—Dated 18th December, 1856.

3003. John Brown, of Liverpool, in the county of Lancaster, Mast Maker, for an invention of "Improvements in the construction of ships' yards."—Dated 18th December, 1856.

3065. William Irlam, of the Gibraltar Iron Works, Newton Heath, near the city of Manchester, Engineer, for an invention of "Improvements in the construction of railway turntables and weighing cranes."—Dated 26th December, 1856.

Patent on which the Stamp Duty of £100 has been Paid.

(*To 16th December*, 1859.)

1094. Alfred Krupp, of Essen, in the kingdom of Prussia, cast steel mannfacturer, for an invention of "Improvements in cannons."—Dated 17th December, 1852.

FOREIGN PATENTS.

BELGIUM.*

List of Patents Delivered on the 15th December, 1859.†

(*Communicated by the Belgian Government.*)

(For previous List, see No. 619 of this Journal.)

8122. T. S. Truss, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in constructing and laying pipes."—Dated 19th October, 1859.—(English Patent, 21st April, 1859.)

8179. J. B. Fourmaux, represented by V. Blyckaerts, of Brussels, for "A kind of bags for extracting beetroot juice."—Dated 3rd November, 1859.

8185. P. Colle, of Rochefort, for "A stomachic liqueur."—Dated 7th November, 1859.

8240. A Fontaine, of Baudour, for "Manufacture of coal-cakes."—Dated 17th November, 1859.

8259. Goudenove and Féret, represented by D. De Vos-Verraert, of Brussels, for an imported invention of "A bougie-tube of enamelled metal."—Dated 22nd November, 1859.—(French Patent, 26th March, 1859.)

8267. J. Norris and T. Till, represented by J. Sainthill, of Brussels, for an imported invention of "Improvements in machines for making nails and similar articles."—Dated 22nd November, 1859.

8268. A. Mercier, represented by X. Raclot, of Brussels, for "A machine for felting slubs and thread of wool."—Dated 22nd November, 1859.

8269. F. Coignet, represented by J. Piddington, of Brussels, for an imported invention of "A mode of constructing dikes and maritime works."—Dated 23rd November, 1859.—(French Patent, 29th October, 1859.)

8270. L. J. Marie, represented by A. Hennelle, of St. Josse-ten-Noode, for an imported invention of "Assembling leaden and other pipes."—Dated 23rd November, 1859.)—(French Patent, 18th July, 1859.)

8271. L. Poret, represented by A. Hennelle, of St. Josse-ten-Noode, for an imported invention of "Means of preserving corn and other substances."—Dated 23rd November, 1859.—(French Patent, 16th August, 1859.)

* For the Belgian Patent Law, see Nos. 292 and 348 of this Journal.

† All Specifications of Patents which have been in force not less than six months, may be inspected or translations of them be had at the Library of the Great Seal Patent Office where also translated Indexes may be consulted.

8273. A. Leeveur, represented H. Biebuyck, of Brussels, for an imported invention of "A throstle-frame with a conical winding apparatus."—Dated 24th November, 1859.—(French Patent, 25th August, 1857.)

8274. H. De Matthys, represented by A. Crooy, of Brussels, for "Improvements in submarine telegraph-cables."—Dated 24th November, 1859.

8275. T. Wilson, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in breech-loading fire-arms and guns."—Dated 24th November, 1859.

8276. L. Jeslitska, represented by D. De Vos-Verraert, of Brussels, for an imported invention of "Stoves heated by means of air."—Dated 24th November, 1859.—(Austrian Patent, 21st August, 1859.)

8277. P. L. Vial, represented by H. Mangeot, of Brussels, for an imported invention of "Civil and military foot-coverings."—Dated 24th November, 1859.—(French Patent, 3rd November, 1859.)

8278. P. Germaux, of Brussels, for "A machine for turning lasts of foot-coverings."—Dated 25th November, 1859.

8279. A. Hédiard, represented by O. Daillencourt, of Brussels, for an imported invention of "A new mode of applying steam to the propulsion of vessels and boats."—Dated 25th November, 1859.—(French Patent, 19th November, 1859.)

8280. L. J. F. Margueritte, represented by O. Daillencourt, of Brussels, for an imported invention of "A process for preserving alimentary and organic substances."—Dated 25th November, 1859.—(French Patent, 14th September, 1859.)

8281. L. Baillon, of Termonde, for "A float with with an alarum whistle which cannot be reached." Dated 26th November, 1859.

8282. N. Vivario-Plomdeur, of Liége, for "Improvements in revolving fire-arms."—Dated 28th November, 1859.

8284. A. Perret, represented by X. Raclot, of Brussels, for "A circular calculating instrument based on the theory of logarithms."—Dated 26th November, 1859.—(French Patent, 22nd December, 1858.)

8285. A. Milch, represented by Ghys, for "An imported invention of "A brick machine."—Dated 28th November, 1859.—(French Patent, 14th July, 1858.)

8286. Lefèvre, née M. L. Roulleaux, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A mode of fastening hair."—Dated 28th November, 1859.—(Original Patent, 9th September, 1859.)

8287. E. Pavy, represented by H. Biebuyck, of Brussels, a Patent of Improvement for "A granary for preserving corn or seeds."—Dated 28th November, 1859.—(Original Patent, 22nd December, 1858.)

8288. A. Fabritius, represented by H. Biebuyck, of Brussels, for an imported invention of "Improvements in coach building."—Dated 28th November, 1859.—(French Patent, 18th March, 1859.)

8289. L. A. Hirtz, represented by H. Biebuyck, of Brussels, for an imported invention of "A system of Hygienic chairs."—Dated 28th November, 1859.

8290. P. Giot, represented by H. Biebuyck, of Brussels, for an imported invention of "A rolling poultry house."—Dated 28th November, 1859.—(French Patent, 21st November, 1859.)

8291. A. Halter, represented by X. Raclot, of Brussels, for an imported invention of "Manufacture of flexible pipes."—Dated 28th November, 1859.—(French Patent, 25th March, 1857.)

8292, V. Charlier, of Ixelles, a Patent of Improvement for "Manufacture of tissues of spun hair for making sacks."—Dated 29th November, 1859.—(Original Patent, 3rd October, 1859.)

8293. V. Carlier, of Ixelles, for "Manufacture of tissues of spun hair for making pulp bags."—Dated 29th November, 1859.)

8294. G. Mather, of Brussels, for "A gas regulator."—Dated 29th November, 1859.

8295. H. Lampert, of Saint Trond, for "A system of brushes for dry-rubbing."—Dated 29th November, 1859.

8296. F. Moussoux, of Falmignoul, for "An instrument for facilitating the working of mash-tubs in brewing."—Dated 30th November, 1859.

8297. J. C. Péan, represented by O. Dardienne, of Liége, for an imported invention of "An apparatus for cutting thistles and grass."—Dated 30th November, 1859.

8298. R. Mushet, represented by R. S. Kirkpatrick, of Ixelles, for an imported invention of "Improvements in the manufacture of iron and steel."—Dated 30th November, 1859.—(English Patent, 3rd June, 1959.)

8299. H. Jackson, represented by A. Anoul, of Ixelles, for an imported invention of "Improvements in bars of grates."—Dated 30th November, 1859.—(English Patent, 16th September, 1859.)

8300. J. J. Oury, of St. Rémy, for "Improvements in Lefaucheux's pistols."—Dated 29th November, 1859.

8301. F. P. and S. Baatard, Brothers, of Brussels, for "A machine for cutting hard and soft stones."—Dated 1st December, 1859.

8302. Th. Sutton, represented by J. Piddington of Brussels, for an imported invention of "A photographic lens."—Dated 1st December, 1859.—(English Patent, 28th September, 1859.)

8303. H. Biebuyck and Son, of Brussels, for "Means of stopping fiery horses."—Dated 1st December, 1859.

8304. A. Hubart and C. Cantillon, of Liége, a Patent of Improvement for "Manufacture of glass casks."—Dated 3rd December, 1859.—(Original Patent, 8th October, 1859.)

8305. J. B. Delrieux, of Liége, for "An alloy for the manufacture of wheel-tyres of railway carriages, locomotives, &c."—Dated 2nd December, 1859.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

41,735. BARRIÈRE, of 12, Rue Lafayette, Marseilles, for "Obtaining a saving in coal for heating steam boilers."—Dated 3rd August, 1859.

41,736. BATESON, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in generating steam and in apparatus used thereat." —Dated 29th July, 1859.

41,737. BAUDON-PORCHEZ and jun., of Lille, for "A moveable reflecting fire-place."—Dated 6th August, 1859.

41,738. BERTRAND, of 59, Boulevart Mont Parnasse, Paris, for "Applying lamp shades to teaching."—Dated 29th July, 1859.

41,739. BOUCHER and JOURDAIN, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A washing machine."—Dated 29th July, 1859.

41,740. BOUILLIANT and Co., of 62, Rue Ménilmontant, Paris, for "Improvements in benches for promenades and gardens."—Dated 29th July, 1859.

41,741. BRAMI-ANDREAC, represented by Leroux, of 48, Quai de Billy, Paris, for "An apparatus for backing condensed water of worms and double heating bottoms."—Dated 29th July, 1859.

41,742. CANIER and KUNKLER, the former of 25, Rue Corbeau, the latter of 20, Rue Lamartine, Paris, for "A press with a blank stamp."—Dated 28th July, 1859.

41,743. CHAUVY, of 12, Rue Corbeau, Paris, for "An apparatus for raising water."—Dated 28th July, 1859.

41,744. DELABARRE, sen., of 44, Rue Impériale, Rouen, for "A sky-light frame with a cranked shoulder."—Dated 3rd August, 1859,

41,745. DUBEDONT, of Dax, département des Landes, for "A safety apparatus for fire-arms."—Dated 4th August, 1859.

41,746. EDWARDS, represented by Chaumel-Duplanchat, of 150, Rue de Rivoli, Paris, for "Improvements in hydraulic engines and similar apparatus used as motors for all kinds of machines." —Dated 29th July, 1859.

41,747. FABRE, of Avignon, département de la Vaucluse, for "Powder of purified madder, called 'Paludine.'"—Dated 1st August, 1859.

41,748. FROIDURE, of 6, Rue de Paris, Saint Ouen, département de la Seine, for "A system of unloading boats and carts in making earth-works." —Dated 29th July, 1859.

41,749. GARCIN, of 59, Rue des Petites Ecuries, Paris, for "Railway switches."—Dated 29th July, 1859.

41,750. GUTTON, of Lyon, for "Joints of vulcanized india rubber for metal roofs and eaves of buildings." —Dated 4th August, 1859.

41,751. LAMAMY, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Improvements in the manufacture of inlaid work."—Dated 28th July, 1859.

41,752. MARSHALL, represented by Brade, of 29, Rue Ste. Anne, Paris, for "Improvements in breech-loading ordnance."—Dated 29th July, 1859.—(American Patent, 14th December, 1858.)

41,753. MATIGNON, of 42, Boulevart de Sébastopol, Paris, for "Improvements in petticoats."—Dated 28th July, 1859.

41,754. DE MONTGOLFIER, of Saint-Vallier, département de la Drôme, for "A machine for washing and triturating substances used in the manufacture of paper."—Dated 5th August, 1859.

41,755. MULLINER, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Means of working sails."—Dated 25th May, 1859.—(English Patent, 26th April, 1859.)

41,756. POTEM, domiciled with Loir, sen., of 64, Rue Lafayette, Paris, for "An apparatus for destroying flies."—Dated 28th July, 1859.

41,757. POULIN, DANIEL, and Co., represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Extracting beetroot-juice for distilling."—Dated 31st May, 1859.

41,758. PRON-GAILLARD, of 2, Rue Villeneuve, Marseilles, for "Preventing casks from leaking." —Dated 30th July, 1859.

41,759. QUÉTINEAU, represented by Bérenger, of 38, Rue Taitbout, Paris, for "An apparatus for rescuing sunken vessels."—Dated 29th July, 1859.

41,760. RABIER, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of paving bricks, bricks, tiles, and other ceramic articles."—Dated 28th July, 1859.

41,761. REY, of 20, Rue Cassette, Paris, for "An apparatus for cleaning combs."—Dated 15th July, 1859.

41,762. RIOLLET, sen., represented by Bresson, of 57, Rue de Bretagne, Paris, for "Improvements in continuous lime-kilns."—Dated 28th July, 1859.

41,763. ROLLAND, sen. and jun., domiciled with Bourrier, of Crespin, département du Nord, for

* For the French Patent Law see No. 228 of this Journal.

"Electro-magnetic printing telegraphs."—Dated 4th August, 1859.

41,764. Rousseaux, of Arras, for "Improvements in Lefaucheux' guns." — Dated 11th August, 1859.

41,765. Sporny, of 137, Faubourg du Temple, Paris, for "A levelling instrument."—Dated 28th July, 1859.

41,766. Tissieux, of 98, Rue Dugueselin, Lyon, for "A machine with a continuous movement, for cutting paper."—Dated 12th July, 1859.

41,767. Basset, of 13, Rue Fortin, Batignolles, for "Processes for the manufacture of ceruse and white zinc."—Dated 1st August 1859.

41,768. Biais, jun., of Cussoy-les-Forges, département de l'Yonne, for "A machine for beating scythes."—Dated 11th August, 1859.

41,769. Bouchard, of 13, Rue de la Douane, Paris, for "Distilling gas of a small lighting power or no lighting power at all, such as hydrogen, and especially peat gas."—Dated 2nd August, 1859.

41,770. Coste, of Rue Font-de-Maury, Béziers, département de l'Hérault, for "An apparatus for making vinegar."—Dated 5th August, 1859.

41,771. Debras, of 5, Rue Lelong, Grenelle, département de la Seine, for "Obtaining whip-stitches by means of a sewing machine."—Dated 1st August, 1859.

41,772. Degrand, of 53, Rue Laffitte, Paris, for "An air moderator lamp." — Dated 30th July, 1859.

41,773. Delvault, of 1, Rue de Normandie, Paris, for "A so-called 'Psychrofère-meuble ventilator." —Dated 30th July, 1859.

41,774. Epry, of 74, Rue de la Mare, Belleville, département de la Seine, for "An helicoidal apparatus, or small portable churn for obtaining ice, butter, and beating eggs."—Dated 2nd August, 1859.

41,775. Floire, of 52, Rue des Ayres, Bordeaux, for "Electric telegraphs."—Dated 9th August, 1859.

41,776. Guillemon, of 77, Rue de la Taupe, Bordeaux, for "Manufacture of hats."—Dated 8th August, 1859.

41,777. Guitet, of 3, Rue de la Barillerie, Mans, département de la Sarthe, for "An apparatus for making soap."—Dated 8th August, 1859.

41,778. Guye, domiciled 240, Hôtel de Normandie, Rue St. Honoré, Paris, for "A spring-anchor scapement for watches, clocks, &c."—Dated 2nd August, 1859.

41,779. Guyet, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A combined turbine with a threefold action, and which may be used as a counter and motor."—Dated 2nd August, 1859.

41,780. Henry, senr., of St. Dié, département des Vosges, for "Ploughs with double mould boards." —Dated 4th August, 1859.

41,781. Huin-Thervay, of 5, Chemin du Saurup, Nancy, for "A machine for smoothing paper-hangings."—Dated 10th August, 1859.

41,782. Keim, junr., of Thann, département du Haut Rhin, for "A flyer worked by means of centrifugal power."—Dated 10th August, 1859.

41,783. Leconte, of Pont-Salomon, parish of Aurec, département de la Haute-Loire, for "Treatment of metallic oxides for the purpose of obtaining therefrom metals in their various states."—Dated 8th August, 1859.

41,784. Lévêque, alias Léveque-Ménétrier, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A moveable target for shooting."—Dated 1st August, 1859.

41,785. Macaire, of 10, Rue Basse, Passy, for "Safety-casks for preserving liquids."—Dated 30th July, 1859.

41,786. Mulot, of Lisieux, département du Calvados, for "A loom."—Dated 6th August, 1859.

41,787. Ozanne, of 16, Rue des Filles Dieu, Paris, for "Gas burners for liquid gas."—Dated 2nd August, 1859.

41,788. Pic, of Valenciennes, département du Nord, for "Water gauges of steam boilers placed on the top of boilers."—Dated 12th August, 1859.

71,789. Radiguet, of Chartres, département d'Eure et Loir, for "Portable and rolling tents, with independent or connected compartments, composed of umbrella shelters, folded up without being unmounted."—Dated 8th August, 1859.

41,790. Rigolier, of 5, Place Groliér, Lyon, for "A railway break."—Dated 6th August, 1859.

41,791. Rogeau, of 16, Rue Grenier Saint Lazare, Paris, for "Improvements in plastic medallions." —Dated 2nd August, 1859.

41,792. Sazerat and Polletti, the former of 10, Boulevart St. Maurice, the latter of 21, Rue Descombes, Limoges, for "Baking porcelain by means of coal."—Dated 9th August, 1859.

41,793. Sievier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in smelting and refining iron ores and other metals."—Dated 30th July, 1859.

41,794. The Marseille Fishing-net Company, represented by Longin, of 81, Rue d'Enfer, Paris, for "Improvements in machines for making fishing and other nets."—Dated 2nd August, 1859.

41,795. Tricout, domiciled 16, Rue du Faubourg St. Martin, Paris, for "A clyster."—Dated 1st August, 1859.

41,796. Vedrine, of Avèze, département du Puy de Dôme, for "A system of carts for carriers."— Dated 5th August, 1859.

41,797. Voelkel-Boell, of Bischwiller, département du Bas Rhin, for "A spinning card." — Dated 9th August, 1859.

41,798. Wilkinson, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in lithographic presses."—Dated 10th June, 1859. —(American Patent, 10th June, 1859.)

41,799. Artige, domiciled with Bongarel, of 35, Boulevart du Temple, Paris, for "Improvements in the construction of tubular and other boilers." —Dated 6th August, 1859.

41,800. Berry, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improve-

ments in the manufacture of tricot,"—Dated 6th August, 1859. — (English Patent, 5th August, 1859.)

41,801. Biais and Petitpas, of Grenoble, département de l'Isère, for "Impervious thumbs of gloves."—Dated 11th August, 1859.

41,802. Bower, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the manufacture of lighting gas, and in apparatus belonging thereto."—Dated 6th August, 1859.

41,803. Brégeard, of 7, Rue St. Julien, Nancy, for "A process for dissolving silk."—Dated 12th August, 1859.

41,804. Bristol, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in slides of steam and other engines."—Dated 6th August, 1859. — (Americam Patent, 21st June, 1859.)

41,805. Bullier and Chartroule, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in apparatus for inhaling vapours or gas."—Dated 5th August, 1859.

41,806. Cuignet and Poilblans, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A mode of closing venetian blinds, windows, shutters, &c."—Dated 5th August, 1859.

41,807. Dierickx, of the Paris Mint, for "An assay balance."—Dated 5th August, 1859.

41,808. Doucet, of 25, Rue St. Laurent, of Belleville, département de la Seine, for "Improvements in the manufacture of artificial fuel."—Dated 5th August, 1859.

41,809. Dreley, of 4, Rue de Chalons, Passage Moulin, for "Applying horn to the manufacture of button busks."—Dated 3rd August, 1859.

41,810. Dubois, of Flines, département du Nord, for "A drum engine for crushing calcined bones by means of toothed balls."—Dated 16th August, 1859.

41,811. Dubois and Lelardeux, the former of 26, Rue du Four, St. Germain, Paris, the latter at the Gare d'Ivry, for "A kind of tobacco pot."—Dated 4th August, 1859.

41,812. Farcot, of 39, Rue des Trois Bornes, Paris, for "Improvements in watches and clocks."—Dated 11th August, 1859.

41,813. Farrar, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of cast steel, malleable cast iron, and in purifying iron."—Dated 4th August, 1859.

41,814. Fiyant, of 2, Impasse St. Nicolas, Petite-Villette, département de la Seine, for "A machine for making wire tacks, pegs, &c."—Dated 4th August, 1859.

41,815. Gresland, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in machines for shaping and cutting wicks."—Dated 5th August, 1859.

41,816. Lecointe, of St. Quentin, département de l'Aisne, for "Manufacture of oil from oil seeds, and especially for presses and heaters belonging thereto."—Dated 13th August, 1859.

41,817. Lejeune and Brunessaux, of 41, Rue Notre Dame de Nazareth, Paris, for "Tops of india rubber."—Dated 4th August, 1859.

41,818. De Lucy Fossarieu, of 27, Rue des Moulins, Passy, département de la Seine, for "Electric lamps."—Dated 6th August, 1859.

41,819. Magnin, of 26, Quai de l'Archevêché, Lyon, for "Improvements in machines for sewing and embroidering, twisting, and gimps with chain stitches."—Dated 10th August, 1859.

41,820. Michel and Duparc, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the construction and use of reflectors."—Dated 6th August, 1859.

41,821. Moseley, represented by Brandon, of 7, Rue des Moulins, Paris, for "Fountain pens."—Dated 3rd August, 1859.

41,822. Mustel and Leprestre, of 35, Rue du Bac, Rouen, for "A reciprocating mechanism for preventing threads from lying on each other in reels."—Dated 11th August, 1859.

41,823. Rammell, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in atmospheric propulsion, and in constructions, pipes, machines, and apparatus applicable thereto." — Dated 3rd August, 1859.—(English Patent, 22nd January, 1859.)

41,824. Rollin, of 7, Rue des Dominicains, Nancy, for "Cartridges for breech-loading guns."—Dated 13th August, 1859.

41,825. Sears, represented by Gardissal. of 29, Boulevart St. Martin, Paris, for "Improvements in breech-loading arms."—Dated 4th August, 1859. —(English Patent, 5th February, 1859.)

41,826. Sorlot, of 98, Rue de Rambuteau, Paris, for "Zinc bills or boards."—Dated 6th August, 1859.

41,827. Tholomier, with Gire, of 25, Rue du Four, St. Germain, Paris, for "An hydraulic wheel."—Dated 3rd August, 1859.

41,828. Trotter and Williams, represented by Gardissal, of 29, Boulevart St. Martin, Paris, for "Improvements in caoutchouc tissues." — Dated 2nd August, 1859.

41,829. Vangorp, of 175, Rue du Temple, Paris, for "Mounting broaches."— Dated 4th August, 1859.

41,830. Bataille, sen., and Lardin, the former of 18, Rue des Vertus, Paris, the latter of Montreuil-sous-Bois, département de la Seine, for "An apparatus for cutting ashlar." — Dated 9th August, 1859.

41,831. Berthelemy, of 14, Rue de Sorbonne, Paris, for "A cart for unrooting and replanting trees."—Dated 9th August, 1859.

41,832. Bertin, represented by Bonneville, of 39, Rue de l'Echiquier, Paris, for "A machine for breaking flax or hemp, before or after retting, and for extracting fibres from plants in general, before or after being prepared, according to the nature of the plant, its dry or green state." — Dated 6th August, 1859.

41,833. Bouet, of la Rochelle, département de la Charente Inférieure, for "A moveable winch with a fulling apparatus and press." — Dated 18th August, 1859.

41,834. Cassano and Pichot, of 10, Rue de Chabrol, Lyon, for "A cane apparatus for regulating and putting silk on bobbins and reels."—Dated 16th August, 1859.

41,835. Chardemite, aux Moulins, commune de St. Georges de Didonné, département de la Charente Inférieure, for "A wind-motor with a vertical axle for working all kinds of machines."—Dated 13th August, 1859.

41,836. Cochaux, of 6, Rue du Havre, Batignolles, département de la Seine, for "A machine for dredging sea-channels on the highest sand-downs."—Dated 9th August, 1859.

41,837. Crova and Delhaumeau, of Perpignan, for "An electric battery, called 'Battery, with an inalterable communication and distributing coals.'"—Dated 13th August, 1859.

41,838. Dieudonné, represented by Bonneville, of 30, Rue de l'Echiquier, Paris, for "Improvements in the manufacture of heart's-ease violet colours."—Dated 8th August, 1859.

41,839. Drouville, of 40, Rue Ste. Anne, Paris, for "A portable ventilator."—Dated 29th July, 1859.

41,840. Fromage, of Darnetal, département de la Seine Inférieure, for "A circular jack for transmitting rotary movement to gearings."—Dated 16th August, 1859.

41,841. Guibert, of 50, Vieux Chemin de la Madeleine, Marseille, for "Varnish for preserving wood from worms and metals from oxidation."—Dated 10th August, 1859.

41,842. Flacq, of Antun, département de Saone-et-Loire, for "An inducto-magnetic motor."—Dated 17th August, 1859.

41,843. Krachpeltz, of 19, Rue des Granges, Besançon, for "Ornamenting cases of watches and other articles of jewellery."—Dated 18th August, 1859.

41,844. Lasserre, of 1, Rue Boutarel, Paris, for "A towing boat."—Dated 8th August, 1859.

41,845. Lavergne, of Cambes, département de la Gironde, for "Extracting stones from quarries."—Dated 19th August, 1859.

41,846. Maréchal, of Sentein, département de l'Ariége, for "Manufacture of artificial marble."—Dated 12th August, 1859.

41,847. Maumené and Rogelet, domiciled at 22, Rue Colbert, Reims, département de la Marne, for "Manufacture of a kind of potash."—Dated 20th April, 1859.

41,848. Millet, of 39, Rue de Bretagne, Paris, for "Handles for pails, milk vessels, &c."—Dated 8th August, 1859.

41,489. Mushet, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "A metallic compound or alloy."—Dated 8th August, 1859.—(English Patent, 8th August, 1859.)

41,850. Noel, of 16, Rue Ganterie, Rouen, for "Self-feeding penholders."—Dated 17th August, 1859.

41,851. Pavin de Lafarge, Brothers, of Vivier, département de l'Ardèche, for "A machine for triturating, grinding, and pulverizing clay, and refractory or aluminous earth."—Dated 16th August, 1859.

41,852. Poret, domiciled with Berthauld, of 1, Rue du Cornet, au Mans, for "Preserving corn."—Dated 16th August, 1859.

41,853. Rebstock, senr., of 52, Rue de Malte, Paris, for "A beverage called 'Bischoff and Marquise Rebstock.'"—Dated 16th August, 1859.

41,834. Richardson, represented by Basset, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of manure."—Dated 8th August, 1859.—(English Patent, 21st January, 1859.)

41,855. Serbat, domiciled with Favrin, of 26, Rue Caumartin, Paris, for "Improvements in grease."—Dated 8th August, 1859.

41,856. Soustron, alias Abel, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Manufacture of leather by recomposing waste-leather."—Dated 9th August, 1859.

41,857. Squanquerillo, represented by Sanguinetti, of 12, Rue Grignon, Marseille, for "Artificial marble."—Dated 10th August, 1859.

41,858. Tinturier, of Saumur, département de Maine et Loire, for "A stirrup-leather applicable to all kinds of saddles."—Dated 19th August, 1859.

41,859. Tixerant, of 4, Rue des Ponts, Nogent sur-Seine, département de l'Aube, for "A machine for crushing and for making flour."—Dated 20th August, 1859.

41,860. Tresch, of Thann, département du Haut-Rhin, for "A stop-axle of pressure cylinders of spinning frames."—Dated 5th August, 1859.

41,861. Wilmant, of 25, Avenue de St. Ouen, aux Batignolles, département de la Seine, for "Improvements in harness."—Dated 2nd August, 1859.

41,862. Adams, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in casting cylinders or pipes."—Dated 11th August, 1859.

41,863. Braun, of 4, Rue de Cotte, Faubourg St. Antoine, Paris, for "A kind of signal-lantern for railways."—Dated 10th August, 1859.

41,864. Brown and May, represented by Hasenfeld, of 12, Place de la Bourse, Paris, for "Improvements in clack-valves of sluices."—Dated 11th August, 1859.—(English Patent, 9th February, 1859.)

41,865. Chabert, Son, of 50, Rue de l'Arc de Triomphe aux Ternes, département de la Seine, for "A plastic substance for making paving stones."—Dated 11th August, 1859.

41,866. Chaleyer, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in cartridges of breech-loading guns."—Dated 11th August, 1859.

41,867. Crétal, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "A system of giving a pleasant aroma to new smoking-pipes."—Dated 10th August, 1859.

41,868. Deiss, of 63, Rue de Bretagne, Paris, for "Manufacture of nitrobenzine, called "Essence of mirbane.'"—Dated 13th August, 1859.

41,869. Faure and L'Huillier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of clockwork for toy-watches and for toys in general."—Dated 9th August, 1859.

41,870. Gérardin, domiciled at 35, Rue du Colisée, Paris, for "Mechanical carriages."—Dated 13th August, 1859.

41,871. Gibbs, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of brushes, brooms, covers of floors, straw mats, scrapers, and other cleaning surfaces."—Dated 11th August, 1859.—(English Patent, 8th July, 1859.)

41,872. Hardon, of 119, Avenue des Champs Elysées, Paris, for "Endless canvass for conveying rubbish."—Dated 12th August, 1859.

41,873. Hugot, of 62, Rue Amelot, Paris, for "Improvements in gumming wads."—Dated 12th August, 1859.

41,874. Jager, of 8, Rue Poulet, Montmartre, département de la Seine, for "Geographical tables."—Dated 16th August, 1859.

41,875. Jarriel, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A machine for transmitting movement."—Dated 11th August, 1859.

41,876. De La Bastida, of 4, Rue Louis-Philippe, Neuilly, département de la Seine, for "A system of hippic baths, called 'Baths of Neptune.'"—Dated 9th August, 1859.

41,877. Lebourgeois, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A purling machine."—Dated 11th August, 1859.

41,878. Lemaignen, son, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A double action gig."—Dated 10th August, 1859.

41,879. Malas and Houillon, the former of 45, Rue de Flandre à la Villette, the former of 23, Rue Manbuée, Paris, for "A kind of ladies' page."—Dated 11th August, 1859.

41,880. Mauger, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An hygrometer."—Dated 11th August, 1859.

41,881. Migeot De Baran, of 158, Rue de Vaugirard, Paris, for "A system of stoppering bottles containing gaseous liquids."—Dated 12th August, 1859.

41,882. Mushet, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast-steel."—Dated 11th August, 1859.—(English Patent, 24th February, 1859.)

41,883. Madot, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improve-in tinder-boxes and matches."—Dated 12th August, 1859.

41,884. Perdrix and Messager, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Applying gluten to industry."—Dated 9th August, 1859.

41,885. Roblin, of 9, Rue de la Ville l'Evêque, Paris, for "Improvements in fire-arms."—Dated 9th August, 1859.

41,886. Runkel, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in oscillating steam engines."—Dated 13th August, 1859.—(American Patent, 12th April, 1859.)

41,887. Savariaux, of 140, Rue du Faubourg St. Antoine, Paris, for "Slides of bedsteads."—Dated 13th August, 1859.

41,888. Serval, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Pocket cigar-cutters, applicable to cigar-cases."—Dated 9th August, 1859.

41,889. Toussaint, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Lamps for railway carriages."—Dated 12th August, 1859.

41,890. Vinet, of 12, Quai de la Mégisserie, Paris, for "A mowing and harvesting machine."—Dated 16th August, 1859.

41,891. Willard, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in extracting oil from coals and other substances producing pyrogenous oils."—Dated 11th August, 1859.

41,892. Yot, of 37, Rue Phélippeaux, Paris, for "A kind of penholder."—Dated 11th August, 1859.

41,893. Bequemie, of 30, Rue de la Douane, Paris for "An arrangement in force and lift pumps for forming directly a reservoir of air at their upper part."—Dated 17th August, 1859.

41,894. Besson-Chenevat, of Tarare, département du Rhône, for "Improvements in battens for weaving in the tambouring style."—Dated 19th August, 1859.

41,895. Bohin, of l'Aigle, département de l'Orne, for "Portable steam boiler and engine."—Dated 24th August, 1859.

41,896. Bonneau, of 43, Rue des Trois Couronnes du Temple, Paris, for "Artificial jointed arbors."—Dated 8th August, 1859.

41,897. Cher, fils, of Bapaume, département de la Seine Inférieure, for "Using compressed steam for extracting sugar from corn and rice."—Dated 23rd August, 1859.

41,898. Courlet, of Deluz, département du Doubs, for "A system of motors by means of an helicoidal wheel."—Dated 19th August, 1859.

41,899. Dequet, of 92, Rue du Bourg St. Denis, Reims, département de la Marne, for "A press for making billiard cues."—Dated 22nd August, 1859.

41,900. Duret, sen., of 27, Rue Saint Fiacre, Vaugirard, département de la Seine, for "Paper for writing by means of ink or any other liquid."—Dated 16th August, 1859.

41,901. Ferrier, of 33, Rue Buffon, Dijon, for "A spittoon for invalids."—Dated 18th August, 1859.

41,902. Fondu, with Gayffier, of 1, Rue Saint Georges, Paris, for "A machine for screw-cutting bolts and nuts."—Dated 17th August, 1859.

41,903. Fondu, domiciled with Gayffier, of 1, Rue St. Georges, Paris, for "A double action machine for the manufacture of bolts and rivets by a single operation, by means of a hot or cold process."—Dated 17th August, 1859.

41,904. Fondu, domiciled with Gayffier, of 1, Rue St. Georges, Paris, for "A double-action machine for conglomerating coal dust." — Dated 17th August, 1859.

41,905. Fragneau, of 56, Rue Sanbat, Bordeaux, for "Heating boilers of marine and other industrial engines."—Dated 20th August, 1859.

41,906. Gilles, domiciled with Alland, of 77, Rue de Paradis, Marseille, for "Manufacture of bombine from silkworms, to be used as manure."—Dated 23rd August, 1859.

41,907. Haseltine, represented by Tolhausen, of 35, Boulevart Bonne Nouvelle, Paris, for "A sewing machine."—Dated 5th April, 1859.

41,908. Jaumard, of 21, Rue Petit St. Jean, Marseille, for "A pressure motor." — Dated 17th August, 1859.

1,909. Jeandelyse-Ponçon, with Buddicom, of Sotteville-les-Rouen, département de la Seine Inférieure, for "Blinding goggles for stopping fiery horses instantaneously."—Dated 19th August, 1859.

41,910. Lambert-Grés, of Haybes, département des Ardennes, for "Applying slate props."—Dated 25th August, 1859.

41,911. Lionville and Nori, the former of 65, Route de St. Mandé, à St. Mandé, the latter of 76 Rue de Bercy, Bercy, département de la Seine, for "A kind of mustard pot." — Dated 17th August, 1859.

41,912. Loisy, of Arras, for "Baths with a direct heating apparatus, and with a moveable grate."—Dated 22nd August, 1859.

41,913. Meyer-Buhner, of Guebwiller, département du Haut Rhin, for "A wine press, with a double catch and stop, and caoutchouc box for preventing leakage."—Dated 19th August, 1859.

41,914. Nurdin, of Libourne, département de la Gironde, for "Drip-stones for preventing air and water from filtering into apartments." — Dated 25th August, 1859.

41,915. Paccallet and Sequin, Father and Son, of 49, Route de Vienne, Lyon, for "A railway break."—Dated 19th August, 1859.

41,916. Renand, of Nonson, département des Ardennes, for "Manufacture of nails by machinery."—Dated 25th August, 1859.

41,917. Robineau-Pineau, of 38, Rue des Carmes, Orléans, for "An apparatus for preserving vines from frosts."—Dated 23rd August, 1859.

41,918. Varlet, of Mer, département de Loir et Cher, for "Improvements in cartridges for breech-loading guns."—Dated 20th August, 1859.

41,919. Verzier and Co., of 22, Rue Pizay, Lyon, for "So-called 'Carmen tissue." — Dated 20th August, 1859.

41,920. Vial, of Grenoble, département de l'Isère, for "Means of putting seamless thumbs to all kinds of gloves."—Dated 3rd August, 1859.

41,921. Viau, of Quai Hoché, Nantes, for "A mechanical motor, being a substitute for steam-engines."—Dated 26th August, 1859.

41,922. Viney, Sommer, and Hamm, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in cigar mouth-pieces."—Dated 16th August, 1859.

41,923. Wilson and Power, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in using certain waste substances obtained in the manufacture of gas."—Dated 20th August, 1859. — (English Patent, 18th August, 1859.)

41,924. Allen, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in stereoscopes."—Dated 19th August, 1859.

41,925. Arson, of 40, Rue de Bourgogne, Paris, for "Treatment of fecal substances, and converting the same into manure." — Dated 22nd August, 1859.

41,926. Baron, domiciled with Grard, of 20, Rue Notre Dame de Nazareth, Paris, for "An instrument for cutting and closing cartridges."—Dated 18th August, 1859.

41,927. Bénard, of 72, Rue des Fossés du Temple, Paris, for "An hydraulic spit."—Dated 20th August, 1859.

41,928. Buissot, Brothers, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A mode of folding fans."—Dated 20th August, 1859.

41,929. Chanard, of 19, Rue Pradier, Belleville, département de la Seine, for "Lime and plaster kilns with great flames and with a continuous fire."—Dated 22nd August, 1859.

41,930. Conover, represented by Urquhart with Heideloff, of 153, Faubourg St. Martin, Paris, for "A machine for splitting wood."—Dated 18th August, 1859.

41,931. Critchley and Elston, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in metallic pistons."—Dated 18th August, 1859.

41,932. Dale, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in concentrating caustic alkali and in using its product for obtaining a motive power or for any other purpose."—Dated 22nd August, 1859.—(English Patent, 24th February, 1859.)

41,933. Doig, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the construction of gas lanterns."—Dated 20th August, 1859.—(English Patent, 11th April, 1859.)

41,934. Duplomb, of 21, Rue du Dragon, Paris, for "A double petticoat, called 'Foureauline.'"—Dated 22nd August, 1859.

41,935. Fossey, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in blowing engines."—Dated 20th August, 1859.

41,936. Ganzer, of 44, Rue Basfroi, Paris, for "A folding foot-stool."—Dated 19th August, 1859.

41,937. Gardiner, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in springs of railway and other carriages."—Dated 17th August, 1859.

41,938. Glassborow, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in pianofortes."—Dated 20th August, 1859.

41,939. Guzman, domiciled at 1, Rue des Batailles, Paris, for "Preserving natural flowers."—Dated 17th August, 1859.

14,940. Hamm, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in regulators of steam and other engines."—Dated 20th August, 1859.

41,941. Hardon, represented by David, of 8, Rue des Grands Degrés, Paris, for "A dredging machine for dry grounds rolling on a railway."—Dated 22nd August, 1859.

41,942. Herbelot, of 10, Rue du Dôme, Passy, département de la Seine, for "A rotary double action steam engine."—Dated 21st August, 1859.

41,943. Josse, of 12, Rue St. Bernard, Faubourg St. Antoine, Paris, for "Improvements in the manufacture of paper hangings."—Dated 17th August, 1859.

41,944. Lambard, of 9, Rue Mauconseil, Paris, for "A kind of silk buttons with holes and shanks." Dated 20th August, 1859.

41,945. Lignon and Desorbay, jun., of 62, Rue Montmartre, Paris, for "An albuminous machine for photographic paper."—Dated 18th August, 1859.

41,946. Moureaux, Brothers, of 13, Rue Quincampoix, Paris, for "A kind of liqueur."—Dated 22nd August, 1859.

41,947. Normandy, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Improvements in apparatus for obtaining drink-water from sea-water."—Dated 20th August, 1859.—(English Patent, 19th February, 1859.)

41,948. Pouig, of Perpignan, for "Manufacture of cigaret lace paper."—Dated 20th August, 1859.

41,949. Quoquiau and Holvoet, domiciled with Vandembroucke, of 14, Rue de Strasbourg, Paris, for "So called 'Magnetic carriage springs.'"—Dated 18th August, 1859.

41,950. Russell, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in apparatus for heating and welding the ends of metal plates used in the manufacture of cylinders and other similar objects."—Dated 17th August, 1859.—(English Patent, 16th February, 1858.)

41,951. Russell, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in the manufacture of handles of tea-pots, coffee-pots, pots, kettles, knives, daggers, forks, and other similar articles with handles."—Dated 22nd August, 1859.—(English Patent, 23rd February, 1859.)

41,952. Salomon, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of fastening steel springs for petticoats."—Dated 17th August, 1859.

41,953. Samuels, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in lace frames."—Dated 20th August, 1859.—(English Patent, 23rd February, 1859.)

41,954. Tronchon, son, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "An apparatus for controlling receipts."—Dated 18th August, 1859.

41,955. Vital De Tivoli, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in the construction of omnibus and other carriages."—Dated 20th August, 1859.

41,955. Arrault, of 11, Rue de l'Empereur, Montmartre, département de la Seine, for "A surgical cartridge box."—Dated 25th May, 1859.

41,957. Boulanger, af 4, Rue des Moulins, Montmartre, département de la Seine, for "Opera-glasses, called 'Neo-jumelles.'"—Dated 24th August, 1859.

41,958. Carré, domiciled with Jacquemart, of 10, Rue St. Anastase, Paris, for "Apparatus and processes for obtaining cold air and ice."—Dated 24th August, 1859.

41,959. Chatelain, of 31, Rue du Four, Paris, for "Solid and liquid cosmetics."—Dated 24th August, 1859.

41,960. Chauve, of 16, Rue du Parlement St. Pierre, Bordeaux, for "Applying india rubber to belts or other elastics as a substitute for braces, buckles, &c., with trousers and waistcoats."—Dated 25th August, 1859.

41,961. Clara, of 21, Rue Rochechouart, Paris, for "Using steam combined with the gaseous products of combustion."—Dated 23rd August, 1859.

41,962. Clément, of 17, Rue Tronchet, Paris, for "A break for stopping the rotary movement of wheels and cylindrical bodies."—Dated 23rd August, 1859.

41,963. Colard, of 44, Boulevart Beaumarchais, Paris, for "An apparatus for boiling beef-tea and vegetables."—Dated 24th August, 1859.

41,964. Cuche, of 155, Rue de Sèvres, Paris, for "Galvanizing wire."—Dated 24th August, 1859.

41,965. Curé, of Avallon, département de Yonne, for "Preserving vines from frost."—Dated 26th August, 1859.

41,966. Delcourt, of Abbeville, département de la Somme, for "A machine for extracting peat."—Dated 25th August, 1859.

41,967. Duroule, au Plan de Vaise, Lyon, for "An apparatus for stretching out and throwing sweep nets."—Dated 24th August, 1859.

41,968. Gérard, of 8, Rue de Constantine, Belleville, département de la Seine, for "A machine for finishing fabrics and silks."—Dated 23rd August, 1859.

41,969. Gressard, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A piston pump."—Dated 22nd August, 1859.

41,970. Grivolas, of Avignon, for "Zoocalcareous manure."—Dated 23rd August, 1859.

41,901. Gueyton, domiciled at Valence, for "A dynomometer without gearings for spinning and throwing silk."—Dated 23rd August, 1859.

41,972. Hine, Mundella, and Tailbonis, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in machines for making tricot."—Dated 8th July, 1859.

41,973. Lefèvre, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Fastening hair."—Dated 22nd August, 1859.

41,974. Lehugeur, of 71, Rue de Paris, of St. Denis, département de la Seine, for "A kind of foot coverings."—Dated 23rd August, 1859.

41,975. Madeline, sen., of Condé-sur-Noireau, département du Calvados, for "An apparatus for working in the woof and winding off."—Dated 26th August, 1859.

41,976. Marillier, of Isches, département des Vosges, for "A system of presses applicable to all purposes."—Dated 27th August, 1859.

41,977. Personne, of 190, Rue St. Maur, Paris, for "A whet-stone for knives." — Dated 24th August, 1859.

41,978. Polonceau, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in locomotives for enabling the same to travel over curves of a small radius."—Dated 22nd August, 1859.

41,979. Prost-Boucle-Pernier, of Saint Claude, département du Jura, for "Metal covers of all kinds of smoking pipes."—Dated 24th August, 1859.

41,980. Quentin, of 91, Rue St. Jacques, Châlons-Sur-Marne, for "Improvements in the manufacture of paper."—Dated 7th August, 1859.

41,981. Secrestat, sen., of 28 and 30, Rue Notre Dame, Bordeaux, for "A supplement to distilling apparatus for preventing fires and explosions."—Dated 29th August, 1859.

41,982. Touttain, Doné, and Co., and Laborde, of 16, Rue Neuve, Bordeaux, for "A machine for making brooms."—Dated 26th August, 1859.

41,983. Verpilleux, Brothers, and Baldeyrou, of Rive-de-Gier, départment de la Loire, for "A machine for conglomerating coals."—Dated 29th August, 1859.

41,984. Verpilleux, Brothers, and Balveyrou, of Rive-de-Gier, département de la Loire, for "Steel cables."—Dated 29th August, 1859.

41,985. Vigne, represented by Amouroux, of 333, Rue St. Martin, Paris, for "A kind of toy."—Dated 22nd August, 1859.

41,986. Watson, represented by Lebrun, of 16, Rue de la Clef, Lille, for "An alarum whistle of steam boilers."—Dated 25th August, 1859.

41,987. Argentier, of 58, Rue de Malte, Paris, for "An apparatus for converting substances into steam."—Dated 26th August, 1859.

41,988. Bangert, domiciled with Hector Despretz, or Jeumont, département du Nord, for "Using small or granular pyrites for the manufacture of sulphuric acid."—Dated 1st September, 1859.

41,989. Barbezat and Co., represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in moulds for castings." — Dated 25th August, 1859.

41,990. Barre, of 27, Rue du Penthièvre, Paris, for "Obtaining intaglio or relief designs on all bodies." —Dated 29th August, 1859.

41,991. Beardslee, represented by Perpigna, of 421, Rue Neuve St. Augustin, Paris, for "Improvements in electro-magnetic machines."—Dated 26th August, 1859.—(English Patent, 11th July, 1859.)

41,992. Bernard, of 32, Rue Basse du Rempart, Paris, for "A mode of adzing horn."—Dated 25th August, 1859.

41,993. Boullay, of 89, Rue eu Palais-Gallien, Bordeaux, for "Trusses."—Dated 31st August, 1859.

41,994. Briet, sen., domiciled 34, Rue Amelot, Paris, for "Hygienic syphon-tubes."—Dated 25th August, 1859.

41,995. Chiousse, of 8, Rue Bernard-Dubois, Marseille, for "Steam boilers with horizontal chimneys, and with an apparatus for purifying smoke." Dated 29th August, 1859.

49,996. Clarck, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in shutters."—Dated 26th August, 1859.—(English Patent, 8th February, 1859.)

41,997. Demets, represented by Ricordeau of 23, Boulevart de Strasbourg, Paris, for "A process for applying impervious leather or tissues on impervious leather or tissues without sewing."—Dated 24th August, 1859.

41,998. Destrem, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Treatment of substances and ores of gold and silver."—Dated 27th August, 1859.

41,999. Dezelu and Guillot, of Batignolles, département de la Seine, for "A lighting apparatus, called 'Lamp injector.'"—Dated 27th August, 1859.

42,000. Duméry, of 26, Boulevart de Strasbourg Paris, for "Improvements in calorifere stoves with circulating steam and water."—Dated 27th August, 1859.

42,001. Frey, Mallet, and Co., of Alençon, département de l'Orne, for "Impervious and tanned ropes."—Dated 27th August, 1859.

42,002. Girardet, represented by Schwarz, of 21 Rue Laffitte, Paris, for "A regulator of harness for carriages with one or two horses."—Dated 25th August, 1859.

42,003. Hervy and Charles, of 13, Rue de la Courtine, Limoges, for "An instrument for indicating the relative elevation or depression of a given point, and its distance." — Dated 11th August, 1859.

42,004. Jacob, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A mechanism for multiplying motive power." — Dated 24th August, 1859.

42,005. Lebrun-Virloy, of 9, Rue Pigalle, Paris, for "An economical process for charring wood."—Dated 29th August, 1859.

42,006. Lee and Sherman, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in chess and draught boards."—Dated 26th August, 1859.

42,007. Lejeune-Chaumont and Co., domiciled with Papy, of Rue and Hôtel Laffitte, Paris, for "Improvements in breech-loading fire-arms."—Dated 29th August, 1859.

42,008. Lombard, of 22, Rue St. Etienne, département de la Loire, for "Conglomerating coal-dust." —Dated 1st September, 1859.

42,009. NACHTIÇALL, of 45, Rue du Rocher, Paris, for "A loom for obtaining lace in several regular pieces."—Dated 29th August, 1859.

42,010. NIAUX, of 15, Rue des Canettes, Paris, for "Improvements in safety-locks." — Dated 27th August, 1859.

42,011. O'HARA, represented by Fringant, of 10, Rue de Provence, Paris, for "Improvements in motors or propellers of steam and other vessels."—Dated 27th August, 1859. —(English Patent, 21st January, 1859.)

42,012. PAILLART, of 17, Rue du Grand St. Michel, Paris, for "A machine for splitting leather and for making joints therein."—Dated 24th August, 1859.

42,013. PIERRARD-PARPAITE, and HÉBERT, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kiln for burning plaster and lime."—Dated 26th August, 1859.

42,014. PROUVOST, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A loom for doubling or spooling thread."—Dated 25th August, 1859.

42,015. SCULFORT, MALLIAR, and MEURICE, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A system of axles and boxes for all kinds of vehicles."—Dated 24th August, 1859.

42,016. SIMON and COUCHE, of Clermont-Ferrand, département du Puy-de-Dôme, for "A stone, called 'Scoria,' for cutlery."—Dated 29th August, 1859.

42,017. STOLLE and SEIDLER, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Apparatus for heating boilers of steam engines, furnaces, and other firing apparatus."—Dated 24th August, 1859.

42,018. VAN-AERDE, of 73, Rue Menilmontant, Paris, for "Improvements in vices."—Dated 26th August, 1859.

42,019. WRIGHT, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in the permanent way and rolling stock of railways." — Dated 24th August, 1859. — (English Patent, 12th July, 1859.)

42,020. AUBRY, of Clermont-Ferrand, département du Puy-de-Dôme, for "Applying curves with a small radius to railways."—Dated 27th August, 1859.

42,021. AUER, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in printing presses."—Dated 29th August, 1859.

42,022. BERGÉS, of 21, Rue des Prêtres St. Germain-l'Auxerrois, Paris, for "Motive engines worked by means of atmospheric air, or superheated steam." —Dated 29th August, 1859.

42,023. BOURGUIGUON, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Manufacture of goffered circular tricot."—Dated 31st August, 1859.

42,024. BUSSIÈRES, domiciled with Penon, of 55, Rue de Clichy, Paris, for "Means of governing balloons."—Dated 20th August, 1859.

42,025. DHARVILLE, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in cases or covers of umbrellas, parasols, &c."—Dated 31st August, 1859.

42,026. FAGET, sen., of 12, Rue Dieu, Bordeaux, for "Manufacture of stoppers."—Dated 1st September, 1859.

42,927. FERAUD, LAUREAU, and RICHARD, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Preserving organic substances."—Dated 31st August, 1859.

42,028. FRIEDLEBEN, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in processes and apparatus for heating by means of gas."—Dated 31st August, 1859.

42,029. GACHE, sen., P. D. JOLLET, and L. BABIN, the former of 49, Rue des Vertais, and the latter of Prairie-au-Duc, Nantes, for "A steam boat for pumping out the mud from basins and harbours." Dated 3rd September, 1859.

42,030. GALAIS, of 4, Rue de Madam, Paris, for "A kind of paste."—Dated 30th August, 1859.

42,031. GEOFFROY, of 42, Rue Condé, Dijon, for "A stopping apparatus called 'Endless apparatus.' "—Dated 2nd September, 1859.

42,032. GUESNON and FLEURY, of Déville, département de la Seine Inférieure, for "Using animal bone in spinning machines."—Dated 31st August, 1859.

42,033. HARKER and FIELD, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in lining keels of iron and other vessels."—Dated 1st September, 1859.—(English Patent, 2nd March, 1859.)

42,034. HARTLEY, represented by Mathieu, 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for regulating the speed of steam-engines and other motors."—Dated 29th August, 1859.—(English Patent, 21st July, 1859.)

42,035. HEURTEMATTE, of 1, Rue Neuve, St. Marc, Rouen, for "Clocks wound up every five weeks or forty days."—Dated 30th August, 1859.

42,036. LAURENS, of 13, Rue Tirelinceul, Rouen, for "Manufacture of chlorine for obtaining bichloride."—Dated 31st August, 1859.

42,037. LEGRAND, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "Frames of seamless petticoats." — Dated 31st August, 1859.

42,038. LEROUX, of 44, Rue Volta, Paris, for "An apparatus for taking up money."—Dated 30th August, 1859.

42,039. LOUAP, jun., of 48, Rue Sedaine, Paris, for "A furnace for steam boilers."—Dated 29th August, 1859.

42,040. MAILLARD, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in sea-compasses." — Dated 29th August, 1859. —(English Patent, 4th August, 1859.)

42,041. MARICOT, of 12, Rue de Louvois, Paris, for "Double elastic buttons."—Dated 30th August, 1859.

42,042. MILLAUG, represented by Le Blanc, of 2, Rue Ste. Appoline Paris, for "Opening and closing fans instantaneonsly."—Dated 31st August, 1859.

42,043. Moison, domiciled 47, Rue St. Denis, Paris, for "A regulator of motors."—Dated 30th August, 1859.

42,044. Moss-Defries, represented by Rowland, of 224, Rue de Rivoli, Paris, for "Improvements in regulating the pressure of gas in gas burners."—Dated 31st August, 1859.—(English Patent, 10th May, 1859.)

42,045. Naudin, of 27, Rue de la Savonneire, Rouen, for "A revision fathom."—Dated 2nd September, 1859.

42,046. Patrigeon and Legrand, of 96, Rue de Charenton, Paris, for "A kind of snuff boxes, called 'Rats' tails,' and similar boxes."—Dated 30th August, 1859.

42,047. Poivret, of Troyes, for "A detent spooling apparatus."—Dated 2nd September, 1859.

42,048. Rouchouse and Co., of 17, Rue du Grand Gounet, St. Etienne, for "Means of preventing railway accidents."—Dated 2nd September, 1859.

42,049. Savineau, domiciled 5, Rue Bellefonds, Paris, for "A machine for stoppering bottles."—Dated 1st September. 1859.

42,050. Valetty, of 56, Quai St. Vincent, Lyons, for "Circular or spiral looms for obtaining plain and figured fabrics."—Dated 31st August, 1859.

Certificates of Addition.

39,256. Aubert, for "A mathematical instrument."—Dated 19th July, 1859.

27,760. Baranowski, for "Signals."—Dated 30th July, 1859.

34,458. Barre, for "Glass engravings."—Dated 25th July, 1859.

37,437. Beslay, for "Tinning."—Dated 20th July, 1859.

40,089. Bonière, jun., for "Lubricating."—Dated 20th July, 1859.

20,353. Boucher and Muller, for "Tinning."—Dated 30th July, 1859.

37,500. Calais, for "A spit."—Dated 25th July, 1859.

37,503. Caussinus, for "Electricity."—Dated 29th July, 1859.

36,996. Claudet, for "Washing wool."—Dated 22nd July, 1859.

28,947. Desaint and Maurice, for "Stoppering." Dated 1st August, 1859.

35,543. Dierickx, for "Side weapons."—Dated 26th July, 1859.

33,191. Digney, Brothers, and Co., for "Telegraphs."—Dated 20th July, 1859.

39,746. Gapiand, for "Biscuit."—Dated 26th July, 1859.

30,005. Gautron, for "Hydraulic machines."—Dated 30th July, 1859.

40,266. Grumel, for "Dyeing."—Dated 21st July, 1859.

41,181. Harel, for "Rudders."—Dated 27th July, 1859.

34,894. Jaloureaux, Brothers, for "Pipes."—Dated 22nd July, 1859.

41,465. Jeunehomme, Brothers, for "Fastenings."—Dated 6th August, 1859.

37,810. Jolibois, for "Brewing."—Dated 19th July, 1859.

37,482. Laubereau, for "Lighting."—Dated 20th July, 1859.

40,793. Lebrun, for "Building."—Dated 27th July, 1859.

32,379. Leroy, for "Smoke-consuming apparatus." Dated 30th July, 1859.

39,527. Lindo, for "Soap."—Dated 28th July, 1859.

34,088. Loup, for "Registering apparatus,"—Dated 4th August, 1859.

37,716. Migeot de Baran, for "Stoppering."—Dated 26th July, 1859.

37,653. Nouveau, for "Stoppering."—Dated 21st July, 1859.

37,653. Mouveau, for "Stoppering."—Dated 27th July, 1859.

40,726. Péan, for a "A thistle-cutter."—Dated 2nd August, 1859.

40,014. Possoz, for "Sugar."—Dated 25th July, 1859.

14,604. Prudshomme, for "Telegraphs."—Dated 20th July, 1859.

37,689. Putnam, for "Caoutchouc."—Dated 26th July, 1859.

37,529. Sautou, for "Towing boats."—Dated 28th July, 1859.

31,470. Scott, for "Acoustic drawings."—Dated 29th July, 1859.

40,446. Tornier, for "Hydraulic machines."—Dated 27th July, 1859.

37,596. Tranchard, for "Mills."—Dated 1st August, 1859.

15,264. Vimont, for "Spinning."—Dated 29th July, 1859.

34,162. Woodward, for "Photographs."—Dated 28th July, 1859.

40,055. Abt, for "Iron-work."—Dated 13th August, 1859.

38,119. Artige, for "Steam-engines"—Dated 6th August, 1859.

34,458. Barre, for "Glass engravings."—Dated 8th August, 1859.

41,450. Bertrand, for "An alarum float."—Dated 17th August, 1859.

37,669. Bigard, for "Salvage."—Dated 10th August, 1859.

40,155. Bonnardot, Vasner, and Letrillard, for "Corn."—Dated 30th July, 1859.

41,099. Bruant, for "Balloons."—Dated 6th August, 1859.

40,548. Bureau, for "Heating."—Dated 12th August, 1859.

38,611. Cabanes, for "Mills."—Dated 6th August, 1859.

39,548. The Anzin Mining Company, for "Coke."—Dated 12th August, 1859.

41,683. Durand and Pradel, for "Endless canvas."—Dated 16th August, 1859.

37,876. Duvignau, for "A rule for the blind."—Dated 3rd August, 1859.

40,428. Gallois-Foucalt, for "Bells."—Dated 3rd August, 1859.

38,290. Gennari, for "Pipes."—Dated 16th August, 1859.

11,236. Grégoire, for "Drums."—Dated 12th August, 1859.

41,368. Gueyton, for "Enamelling."—Dated 9th August, 1859.

40,465. Jacquemin, for "Harvesting."—Dated 30th July, 1859.

41,562. Julienne, for "Belts for baths."—Dated 8th August, 1859.

37,682. Le Chatelier, for "Alumina."—Dated 11th August, 1859.

41,146. Lemaire, for "Spinning.'—Dated 9th August, 1859.

37,261. Lencauchez and Pouchet, for "Fecal matter."—Dated 4th August, 1859.

39,559. J. Lion, C. Levy, and Co., for "Foot coverings."—Dated 12th August, 1859.

39,494. Mainardi, for "A spinning wheel."—Dated 11th August, 1859.

39,082. Marçais, for "Electricity."—Dated 13th August, 1859.

39,848. Masbon, for "Clock-work."—Dated 1st August, 1859.

37,685. Mengarduque, for "Stoppering."—Dated 9th August, 1859.

41,150. Miquel, for "Trusses."—Dated 6th August 1859.

27,455. Muller, for "Tiles."—Dated 6th August, 1859.

37,556. Parmantier, for "Mowing."—Dated 1st August, 1859.

38,504. Poivret, for "Tricot."—Dated 16th August, 1859.

41,088. Pelissier, for "Manufacture of oil."—Dated 21st July, 1859.

40,797. Prat, for "A sowing machine."—Dated 17th August, 1859.

41,758. Prou-Gaillard, for "Casks."—Dated 6th August, 1859.

37,819. Reclus, for "An alarm."—Dated 11th Augst, 1859.

37,559. Ribail and Gosset, for "Steam."—Dated 1st August, 1859.

38,445. Sabatier, for "A match-case."—Dated 8th August, 1859.

40,277. Schlose and Brother, for "A clasp."—Dated 10th August, 1859.

37,893. Ziegler, for "Lubricating."—Dated 16th August, 1859.



UNITED STATES OF AMERICA.

(*Communicated by the Commissioner of Patents.*)

List of Patents, with Claims annexed, issued from the United States Patent Office, for the week ending 29th November, 1859, and each bearing that date.

No. 26,239. Reuben L. Allen, of Providence, R. I., for an "Improvement in sleeve fasteners."

"I claim the new article of manufacture herein described, namely, a sleeve fastening composed of the spring A, cylindrical arms B, C, hinge and catch *b*, *c*, and hooked bar D, arranged in the relations and so as to operate together, in the manner herein-before set forth."

No. 26,240. Seth A. Andrus, of Roscoe, Ill., for an "Improved washing machine."

"I claim, 1st, the combination of the circular plate or crank I with the rubber J, as before described, and so constructed and arranged that by operating the said crank I am enabled to communicate to the said rubber J two motions at the same time, that is, a vertical reciprocating motion and a lateral vibratory motion. 2nd, the combination of the caster rollers *m*, *m*^{1}, with the double spring K, constructed and arranged in connection with the rubber J, as herein-before more fully set forth, and for the purposes stated."

No. 26,241. Evens Backus, of Stuyvesant, N. Y., for an "Improvement in cooking ranges."

"I claim attaching to a stove or range the curved plate I and the movable plate (*n*), and the continuous flue F, when arranged in the manner and for the purposes herein set forth."

No. 26,242. G. W. Beers, of Bridgeport, Conn., for an "Improvement in making hub bands for wagon wheels."

"I claim casting slits or holes through the bands sufficiently large to allow the solder or other suitable metal used in connecting the cap to the band to flow through them and unite them, as above described, or in any other form or way equivalent thereto."

No. 26,243. Wm. Boch, senr., of Green Point, N. Y., for an "Improved watercloset basin."

"I claim, as an improved article of manfacture a watercloset basin having a covered annular water passage B at its upper edge, as herein shown and described."

No. 26,244. Henry F. Bond, of Hudson, Wis., for an "Machine for registering music."

"I claim, 1, the application of the bell-pull action with knees and wires to act upon the markers, substantially as described above. 2, the arrangement of the levers J, J, J, and K, K, K, by which the sharps are marked with double lines on the spaces or lines in music with their corresponding naturals, the levers or markers K, K, K, being made each of two pieces of tin or other metal and the levers or markers J, J, J, playing between those two pieces. 3, the arrangement of levers or markers of both kinds in a row with proper intervals to record the music or paper ruled, substantially as represented in Fig. VI., the staves of music being ruled of one color, with just leger lines enough of another color to write directly up or down from one staff to another, the leger lines between the two staves belonging alike to both of them, and the whole number of lines and spaces being equal to the compass of the instruments. 4, application of the ink or coloring matter to the cylinder A, as above described, and the producing of colored marks by pressing the paper against

the inked cylinder. 5, the action of the lever E upon the bar marker L, substantially after the manner set forth above. 6, the mode in which the loud pedal action is marked, substantially as set forth above."

No. 26,245. S. L. Bond, of Greenwood, So. Ca., for an "Improved hub-boring machine."

"I claim the V-shaped bars or jaws F, H, in combination with the bit arbor D, when the whole are arranged, substantially as shown to operate as and for the purpose set forth."

No. 26,246. James A. Boughton, of Pougkeepsie, N. Y., for an "Improvement in making hub bands for wagon wheels."

"I claim the combination of the flange C and projection D, on the leaf B, and the set screw E in the open band A, or their equivalent, for the purposes heretofore set forth."

No. 26,247. John Calvin Brown, of Providence, R. I., for an "Improvement in machines for making chain."

"I claim the circular disk I, provided with the wedged-form projections E, F, G, H, arranged as described, in combination with the bell crank levers D, D^1, which operate the several bending instruments, such combination operating in the manner substantially as described, for the purposes specified."

No. 26,248. Peter Brown, of Brooklyn, N. Y., for an "Improvement in paint cans."

"I claim, 1st, the employment of a strengthening wire within the bead (*a*), as and for the purpose herein shown and described. 2nd, the combination of the pivoted ears C with the cover B, lug (*b*), and can A, as and for the purpose herein shown and described."

No. 26,249. Thos. S. Brown, of New York, N. Y., for "An improvement in quartz crushers."

"I claim the employment or use of the tubular pestle C, having a reciprocating and rotating movement, in connection with the nipple or cone *c* in the box or mortar D, substantially as and for the purpose set forth."

No. 26,250. John Brubaker and Henry Brubaker, of Lancaster County, Pa., for an "Improvement in tools for handling tin."

"We claim the rod handled tong Fig. 2, with its sliding leg C, hooked end *a*, in combination with the ring E, Fig. 3, when made, substantially as described, for the purpose specified."

No. 26,251. John P. Burnham, of Rockford, Ill., for an "Improvement in harvesters."

"I claim the employment of a spring (*d*) in combination with the lever J and connecting rod L, substantially as and for the purpose herein shown and described."

No. 26,252. Ze Butt, of Lincolnton, N. C., for an "Improved harness yoke."

"I claim the manner herein described of constructing and arranging the yoke so that its weight, or the greater portion of it, may rest upon the back instead of the neck of the horses. I also claim, in combination with the yoke, giving a wide base to the line of draft, either by the bolt and clevis, or any other equivalent device, for the purpose and in the manner herein set forth and described."

No. 26,253. Andrew J. Chapman, of Scipio, N.Y., for an "Improvement in vegetable cutters,"

"I claim the arrangement and combination of the hinged guard or feed board, hinged follower, and stationary slatted cutting bed, when constructed and operating substantially in the manner and for the purposes set forth."

No. 26,254. Wm. B. Coates, of Philadelphia, Pa., for an "Improved potato parer."

"I claim the handle A, ferrules B and C, guard D, and blade G, the whole being arranged and constructed substantially in the manner and for the purposes herein set forth."

No. 26,255. Seth L. Cole, of Burlington, Vt., for an "Improvement in gas burners."

"I claim the construction from some good conducting material, as herein above set forth, of a gas burner, with an enlargement of the tube at the point where the gas is discharged and burned, in the form of a globe, or the like, furnished with a slot aperture, as above described, so that the gas shall be heated to the utmost at the point where it is consumed."

No. 26,256. John Webster Cochran, of New York, N. Y., for an "Improvement in breech-loading and other fire-arms."

"I claim, 1st, so constructing and applying one or more accelerating chambers, in combination with the plunger or elastic cushion, that the charge or charges in the accelerating chamber or chambers are fired by the driving back of the plunger or cushion, and that the plunger or cushion serves as a safety valve to the accelerating chambers, substantially as herein described. 2nd, combining the movable breech piece B, containing the plunger or elastic cushion, with a ring or circular frame E, hinged to a slide F, which works longitudinally to the gun, the whole operating substantially as described. 3rd, in combination with the breech piece B, secured in place by a screw, or its equivalent, I claim the adjustable screwed bushing G, applied to the gun, substantially as and for the purpose herein described. 4th, the combination of the plunger C, accelerating chamber *c*, *c*, volute spring D, movable breech piece B, ring or frame E, and slide F, the several parts constructed and applied to the gun, and operating substantially as herein described."

No. 26,257. George Cooper, of Concord, N.H., for an "Improved cooking range."

"I claim the combination and arrangement of the separate leading flues A, B, C, (each provided with a damper *a*, *b*, or *c*, arranged in it as explained,) with flues D, E, F, G, H, disposed around the ovens, as specified. And, in combination therewith, I claim the separate insulating flues I, K, arranged between the ovens and on opposite sides of the leading flue A, and made to open into the bottom flues D and G, and to communicate with the flue A, by openings provided with dampers, all as herein-before specified."

No. 26,258. P. Davey, of Ironton, Ohio, for an "Improvement in buttons."

"I claim the construction of the double flanged shank piece as the basis of the button, forming on one end thereof a button, and on the other a fastening, and in the middle two flange guards to receive the button hole, and protect it from too much abrasion and friction, substantially as set forth."

No. 26,259. A. A. Dickson, of Anderson, S.C., for an "Improvement in ploughs."

"I claim the arrangement of the peculiar shaped bar D, with the shares E, F, and G, beam A, and handles C, C, substantially as described for the purpose set forth."

No. 26,260. Patrick H. Duffy, of Somerset, Ohio, for an "Improved detective register for watchmen."

"I claim drooping the balls by which the action of the apparatus is indicated into the cells of a revolving wheel, by operating a rod O, and slide Q, substantially in the manner and for the purpose herein described. I also claim locking and releasing the rod *o*, by devices, substantially as herein described, whereby it can be pulled at certain times only, to drop a ball into the cells of a revolving wheel, when constructed and operated substantially in the manner and for the purpose herein set forth."

No. 26,261. Henry Ehrenfeld, of New York, N.Y., for an "Improvement in machine for converting reciprocating into intermittent rotary motion."

"I claim the plate B, or its equivalent, arranged with a socket *c*, and cut or split through its centre, as described, to operate in combination with the wheel A, and lever C, which latter is furnished with an oblong pin *d*, or its equivalent, substantially in the manner and for the purpose specified."

No. 26,262. Wm. M. Ferry, jr., of Ferrysburgh, Mich., for an "Improved journal box for saw mill carriages."

"I claim a new article of manufacture, to wit, a single casting A, moulded with an intermediate space B, and with off-setting boxes C, D, on each side of said space, substantially as and for the purposes set forth."

No. 26,263. HENRY FISHER, of Alliance, Ohio, for an "Improvement in railroad hand cars."

"I claim the manner, substantially as herein described, of combining the hand crank shaft F, with the axle of a railroad hand car, so that when the crank shaft F meets with any obstruction, it disconnects automatically from the axle, and ceases its revolution with the same, and thus prevents a sweeping off of the operators from the platform, as set forth."

No. 26,264. DENNIS C. GATELY, of Newtown, Conn., for an "Improvement in manufacture of rubber belting."

"I claim the method herein described of imparting a smooth and finished surface to belts or bands of india rubber or gutta percha, the same consisting in placing them in contact with sheets or strips of vulcanized india rubber or gutta percha, and then vulcanize them by applying heat, substantially in the manner and for the purposes set forth."

No. 26,265. DENNIS C. GATELY, of Newtown, Conn., for an "Improvement in the manufacture of rubber belting."

"I claim the manufacture of belting or banding, composed either wholly or in part of india rubber or gutta percha, which consists in vulcanizing the belt or band, and giving it a smooth friction surface at one operation, by feeding the belt or band, around or in contact with a series of smooth heated rollers, substantially as described."

No. 26,266. GEORGE A. GRAY, jr., of Cincinnati, Ohio., for an "Improved bench vise."

"I claim the described combination of the handle G, loose head F, and catch H, with the jaws, screws, and endless chain of a parallel bench vise."

No. 26,267. JONATHAN H. GREEN, of Christiansburg, Iowa, for a "Composition for covering metals."

"I claim the composition described."

No. 26,268. WM. J. HORTON, of La Grange, Ala., for an "Improved machine for riving basket splints, &c."

"I claim the employment or use of the rollers C, C, D, three or more, knife H placed in the gate G, and the guide plates E, E, arranged for joint operation, substantially as and for the purpose set forth."

No. 26,269. JOSEE JOHNSON, of New York, N.Y., for a "Toy gun."

"I claim, first, so arranging the spring D, relatively to the bore A, that D is by a single movement of the finger, used both as a trigger and a propelling force to discharge the projectile through A, substantially as above shown and described. Second, I claim in connection with the above, receiving the impact of the spring D, upon the single bearing *g*, so that the free portion of D moves by its momentum beyond its original position, for the purpose herein shown and described. Third, I claim the detaching surface *a*, arranged relatively to the spring lever D, and barrel A, substantially as herein shown and described."

No. 26,270. FRANCIS H. JOYNER, of Richmond, Vt., for an "Improvement in railroad switches."

"I claim a pair of switch rails, in connection with stationary bearing rails, the whole constructed and arranged as is described above."

No. 26,271. BERNHARD KOEGEL, of New York, N.Y., for an "Improvement in manufacture of vinegar."

"I claim converting wine or other alcoholic liquors rapidly into vinegar or acetic acid, by means of pumice stone (or its equivalent), substantially as described, and I also claim the tub or apparatus, substantially as described, when pumice stone is used in the same for the purpose as set forth."

No. 26,272. JOHN M. LAMER, of Eufaula, Ala., for an "Improvement in apparatus for taming horses."

"I claim the employment of the straps A, A, loop B, and straps D, C, and E, when the same are constructed, arranged, and used substantially as and for the purpose herein specified."

No. 26,273. OLIVER LINDSAY and ROBT. F. STREAM, of Washington, Pa., for an "Improvement in grain fans."

"But we claim the combination of division board A, with the inclined plane B, the screen board G, and the riddles C and F, when the same are united in the peculiar manner above described and arranged to operate in the relation to each other, and to the currents of wind thrown off by the fan as fully shown in figure 1, substantially as and for the purpose set forth and specified."

No. 26,274. WM. LINTON, of Baltimore, Md., for an "Improvement in filters."

"I claim arranging a clamping plate B of less diameter than the filtering cylinder on adjusting screws *g* of the removable head *c* of the cylinder A, substantially as and for the purpose set forth."

No. 26,275. PETER LOUIS, of New York, N.Y., for an "Improvement in valve gear of steam engines."

"I claim, 1st, the auxiliary cylinder D, having a partition *g* and arrangement of steam and exhaust passages, substantially as described, and fitted with a valve T or its equivalent and with two pistons F, F^1, on opposite sides of its partition, applied substantially as described, in combination with the induction and eduction valves and the shaft of the main engine, so that each of said pistons, acted upon by steam admitted to its compartment of the auxiliary cylinder by the valve T or its equivalent, serves to open one induction and the opposite eduction valve of the main engine at the proper time, substantially as herein described. 2d, in combination with the auxiliary cylinder D and its pistons, applied and operating as described, to open the induction and eduction valves of the main engine, I claim the employment of the rock shaft N and its toes O, O^1, so applied in combination with the said eduction valves that while they permit the said valves to be opened by the action of the steam on the pistons of the auxiliary cylinder they keep the said valves open as long as may be desired, substantially as herein described."

No. 26,276. THOS. J. MAYALL, of Roxbury, Mass., for an "Improvement in manufacture of waterproof hose."

"I claim my improvement in the manufacture of india rubber or gutta percha hose or tubing, which consists in impregnating the fibrous fabric which forms the basis thereof with protective or preservative substances, and subsequently coating with india rubber or gutta percha, and forming the same into hose or tubing, substantially as described."

No. 26,277. THOS. J. MAYALL, of Roxbury, Mass., for an "Improvement in steels."

"I claim, as a new article of manufacture, a 'steel,' or implement for sharpening table knives, &c., formed of india rubber or gutta percha, with which emery, sand, or other suitably gritty substances are incorporated, substantially as set forth."

No. 26,278. THOS. J. MAYALL, of Roxbury, Mass., for an "Improvement in manufacture of packing and tubing."

"I claim my new method of forming packing hose, or tubng, and other similar articles, the same consisting in rolling or wrapping the fabric to be used around the core mandril by rolling or passing said core or mandrel and the fabric or wrapper together between two surfaces, one of which exerts a self-adjusting yielding pressure upon the article to be formed, while the other surface has the necessary motion imparted to it to roll or wind the fabric used around the core or mandrel, substantially as set forth."

No. 26,279. ALBERT E. MCGAUGHEY and SAMUEL N. MCGAUGHEY, of Westedo, Minn., for an "Improvement in steam ploughs."

"We claim, 1st, the plows S attached to radical arms *m*, or oscillating shafts *k*, and arranged with the pinions *n*, racks T, ratchet toothed hubs *l*, and stop rods *r*, *s*, to operate substantially as and for the purpose set forth. 2nd, in connection with the plows S, arranged and operated as described, the rakes or harrows V, attached to the bars *i*, i^1, for the purpose specified."

No. 26,280. JAMES H. MCNEELY, of Indianapolis, Ind., for an "Improved means for climbing telegraph poles."

"I claim the combination and arrangement of the hooks B and C, with the loops D, E, and F, and set screw G, when constructed and operated substantially as set forth."

No. 26,281. Reuben Miller, of Pittsburgh, Pa., for an "Improvement in cut-off apparatus for steam engines."

"I claim the employment, in combination with the tappets F, F^1, for opening the valve to effect the induction of steam of the collars G, G^1, attached to the same valve rod, and the tappet levers H, H^1, with independent arms g, g^1, said collars and tappet levers being applied and operating, substantially as herein described, to effect the cutting off the steam at such point in the stroke of the piston as may be desired."

No. 26,282. John Miner and Silas Merrick, of New Brighton, Pa., for an "Improvement in railroad cars."

"What we claim, is, in the construction of railroad cars, inserting strips of wood between the angle iron which forms the framework of the car, in combination with panel plates formed of a single piece of iron struck up, whether plain or ornamented, substantially as described. We also claim constructing the ribs and framework of the car of two strips of L iron, with a bar of wood interposed, when these irons and the wood are united by rivets, substantially in the manner described."

No. 26,283. Joan R. Moffitt, of Piqua, O., for an "Improvement in grain separators."

"In the desired combination with a reversible spout adapted to discharge grain at either end of a threshing and separating machine, I claim the screen N, placed within or above the said spout, and operated by the motion of the shoe, for the purpose of screening grain after the action of the winnowing apparatus."

No. 26,284. F. I. Palmer, of Knoxville, Tenn., for an "Improvement in car trucks."

"I claim the arrangement and combination of the bars I, K, L, H, H, substantially as and for the purpose set forth."

No. 26,285. J. J. Parker, of Marietta, O., for an "Improvement in paper files."

"I claim the combination with the hinged book back of bars, springs, and rods, arranged for conjoint operation substantially in the manner described."

No. 26,286. Dubois D. Parmelee, of Salem, Mass., assignor to John A. Greene, of Beverly, Mass., for an "Improvement in manufacture of hollow moulded rubber goods."

"I claim the method herein described of shaping the said articles in moulds, preparatory to their being vulcanized or hermized, *i. e.*, treated in the cold way by any known process, by applying heat to bags made of india rubber, its equivalent, or their compound, free from sulphur, and inflated with air so as to snugly fit the moulds, in the manner substantially as set forth."

No. 26,287. Francis A. Parmelee, of New Haven, Conn., for an "Improvement in twine spools."

"I claim the combination of the double spool (C, C, C), with the spindle (D), when the whole is constructed substantially as herein described."

No. 26,288. G. H. Peabody, of Columbus, Geo., for an "Improvement in cotton pickers' wallets."

"I claim applying a sponge or other equivalent device to a cotton picker's wallet, for the purpose of enabling the picker to readily moisten his fingers, and thus facilitate his work, as herein described."

No. 26,289. Simeon F. Peek, of Penfield, Geo., for an "Improvement in ploughs."

"I claim, the manner of attaching the share E, the foot bar D, to wit, having the back part of the share notched and fitted in a rebate *a* in the foot bar, and receiving the shoulder *b*, formed by the rebate, while the ends *f* of the share fit underneath the projections *c*, *c*, and the lever E is pressed on the outer side of the share by means of the wedge G, substantially as shown."

No. 26,290. William Peters, of Baltimore, Md., for an "Improved propeller and paddle wheel shaft."

"I claim a propeller or paddle wheel shaft, constructed as herein set forth."

No. 26,291. S. M. Perkins, of Albany, Ill., for an "Improvement in whiffle tree hooks."

"I claim, first, the combination of the stud with a revolving spring button, arranged substantially as described for the purpose set forth. Second, in combination with a revolving spring button I claim a stationary stop (D), so arranged as to prevent the eye of the trace in all positions from passing over the button. Third, I claim the combination of the spiral spring, the projecting stud, and the inner stop, arranged substantially as described for the purpose set forth. And I also claim constructing the button with a hooked end, substantially as described, for the purpose set forth."

No. 26,292, Charles Perley, of New York, N.Y., for an "Improved chain cable stopper."

"I claim the bridge *k* over the chain, in combination with the cable stopper, for the purpose of forcing the chain into said stopper, in the manner and substantially as specified."

No. 26,293. Gideon Peirce, of Ercildown, Pa., for an "Improvement in horse rakes."

"I claim the arrangement of the cog wheel *b*, rack *c*, lever I, frame *d*, bar G, standard *g*, and teeth *f*, operating substantially as and for the purpose set forth."

No. 26,294. Mathias Reaser, of Reading, Pa., for an "Improvement in horse hay rakes."

"I claim the combination of the rock shafts N and O clearers P, teeth *c*, brace guides L, spring bar F. pins *e* and *f* springs *d* and *g*, with the draft bar I, when the several parts are arranged and operated in the manner and for the purpose described."

No. 26,295. Charles W. Richter, of Madison, Geo., for an "Improvement in lamps."

"I claim the employment or use of the wick adjuster formed of the bar *f*, provided with a toothed plate *r* at its inner end, and so arranged as to have a certain degree of longitudinal adjustment, in relation with the wick *u*, for the purpose set forth."

No. 26,296. Wm. Salisbury, of Wheeling, Va., for an "Improved catch bolt."

"I claim the employment or use of the lever C, combined and arranged with the catch bolt B, to operate substantially as and for the purpose set forth."

No. 26,297. Henry Sanders, of Utica, N. Y., for an "Improvement in cultivator teeth."

"I claim the flanches *a*, *a*, and a semi-circular projection B on the tooth, and the flanches *c*, *c*, and pin *e* on the chair, when constructed and arranged, in relation to each other, in the manner substantially as described and for the purposes set forth."

No. 26,298. Samuel Smith, of Philadelphia, Pa., for an "Improvement in cooking stoves."

"I claim, firstly, the grate G, having hollow bars, communicating with each other and arranged, in respect to the hollow back L and its zigzag passages, as set forth for the purpose specified. Secondly, the plates *r* and *s* of the grate G, when arranged as specified, so as to serve the double purpose of connecting the bars of the grate together, and forming a chamber for heating the air preparatory to the same being discharged in jets into the front of the fire."

No. 26,299. James Speers, of West Manchester, Pa., for an "Improved water heater for steam engines."

"I claim, first, the arrangement of the float (*h*), lever (*f*) valve (*o*), partition (*k*), and pipes (*b*, *c*, and *x*), when arranged substantially as herein described, for the purpose of constructing water heaters for supplying the force pump of steam engines with heated water. Second, the use of the branch pipe (*x*), when used in connection with pipe (*c*), and valve (*o*), as herein described, and for the purpose set forth."

No. 26,300. Henry Steinway, jr., of New York, N. Y., for an "Improvement in piano-fortes."

"I claim with the agraff *c*, *c*, of the projection *a* on the underside of the plate, lapping over and abutting against the edge of the turning block, substantially as herein described, for the purpose specified."

No. 26,301. David Stoddard, of San Francisco, Cal., for an "Improvement in valve gear for steam engines."

"I claim the use of the fixed cam A, in combination with the adjustable cam B, and the rocking bar E, which is connected to the cam rod, and also connected to and operated by the cam yokes, substantially in the manner described."

No. 26,302. J. E. Sturdy, of Augusta, Mr., for an "Improvement in shingle machines."

"I claim the employment or use, in connection with the shingle sawing machine described, of the guides I, I, attached to the bolt carriage E, and actuated alternately to perform their proper function to the planer L, the whole being arranged substantially as and for the purpose set forth."

No. 26,303. Joseph R. Swift, of New Orleans, La., for an "Improvement in railroad car couplings."

"I claim the combination of the peculiarly-constructed draw head A, B, *f*, *a*, *g*, *b*, *c*, with the peculiarly-constructed elbow-shaped gravitating lever hook C, *m*, *n*, in the manner and for the purpose herein described."

No. 26,304. I. B. Thompson, of Philadelphia, Pa., for an "Improvement in metal strings for pianos, &c."

"I claim the employment for the strings of piano-fortes, and other musical instruments, of hardened and tempered steel wire, as herein described."

No. 26,305. S. H. Tift, of Morrisville, Vt., for an "Improvement in apparatus for elevating water."

"I claim the buckets B, curved at the rear as described, in combination with the trunnions T, band *b*, notched flanged wheel W, roller R, and frame F, constructed and operating substantially in the manner and for the purpose set forth."

No. 26,306. George W. Tolhurst, of Liverpool, Ohio, for a "Composition for making soap."

"I claim, a soap compound, when prepared of the ingredients proportioned in the quantities hereafter mentioned, viz., five ounces common bar soap, four ounces sal soda, half ounce borax, half drachm of sugar burned, and one teaspoonful of linseed oil, add as much rain water as to make a soap of suitable consistency; after it is boiled it is ready for use."

No. 26,307. Alfred F. Toulmir, of Ellicotts Mills, Md., for an "Improvement in railroad car brakes."

"I claim the mode described of simultaneously applying or putting down brakes by means of the brake cord (E, *c*, *d*), the box spring (W), the crank lever (K), the trigger (P), the cross piece (*x*), the slide (*l*), and the swivel bar (*b*), with its springs S, S, and S, S, arranged as described. I also claim the mode described of instantaneously freeing, relieving, or raising the brakes, and of keeping them free when raised (until the engineer, conductor, or brakesman shall desire to apply them), by means of the forward or tractive movement of the train, in combination with the slide (*l*), the crosspiece (*x*), and the trigger with its shoulder (P), arranged and operating as described."

No. 26,308. John G. Treadwell, of Albany, N. Y., for an "Improvement in stoves."

"I claim the arrangement of the stove A, flue B, door F, flue D, and smoke pipe C, when the flue B is secured to, or made a part of the underside or bottom of the stove, the several parts being connected and constructed, substantially as and for the purpose specified."

No. 26,309. Henry George Tyer, of Andover, Mass., for "Composition for soles and heels of shoes and boots, veneers, packing, and other purposes."

"I claim a composition made of vulcanized india rubber, leather, and gutta percha, in the proportions and manner herein set forth."

No. 26,310. I. T. Vankirk, of Frankfort, Pa., and Wm. M. Fulton, of Granberry, N. J., for an "Improvement in lamps."

"We claim the spindle B, with its cog wheels D, the said spindle being confined to its place by and acted upon by a spring attached to the wick tube, and arranged in respect to the latter, as and for the purpose herein set forth."

No. 26,311. D. S. Wagener, of Penn., Tan., N. Y., for an "Improvement in grain separators."

"I claim the case *i*, with flanges or divisions *t* surrounding distributor or sheath *r*, or its equivalent, for distributing the grain in a circular form within said case, and separating the impurities from the grain at said point, by means of a suction and b ast fans, or by a suction or blast fan, operating as described, and for the purposes set forth."

No. 26,312. John H. Wells, of Brooklyn, N.Y., for an "Improved rocking chair."

"I claim the arrangement herein described, of the legs 1, 2, 3, 4, the hinge joint at 77, connecting the seat with the underwork, and the springs 8 and 9, substantially as and for the purpose set forth."

No. 26,313. Calvin D. Wheeler, of New York, N. Y., for an "Improvement in machines for cleaning animals."

"I claim arranging and combining with a portable case or frame a rotating comb and brush, substantially as set forth, and for the purposes specified."

No. 26,314. C. W. Williams, of Port Jervis, N. Y., for an "Improvement in canal locks."

"I claim, 1st, the arrangement of the sliding shaft R, gearing S, M, P, sliding rack N, rods O, *i*, *i*, *i*, wickets F, and gate E, applied to a canal lock, substantially as and for the purpose set forth. 2nd, the employment or use of the guard strip I applied to the gate E, and arranged substantially as and for the purpose set forth."

No. 26,315. Seth Wilmarth, of Charlestown, Mass., for an "Improved machine for drawing bolts."

"I claim the combination and arrangement of the several parts herein specified and illustrated, substantially as and for the purposes set forth."

No. 26,316. Wm. Wilmington, of Toledo, O., for an "Improvement in grain separators."

"I claim, 1st, the combination of the endless belt D, the dividing board H, and the rotary reciprocating bars G, the belt being separated from the bars by means of the board H, and used for delivering the straw and unseparated grain to the bars and its turning point, substantially as and for the purpose herein specified. Second, I claim the combination of the teeth on the underside and end of the bars with the fingers or comb, for the purpose herein-after described."

No. 26,317. Martin Winger, of Lancaster County, Pa., for an "Improved machine for shaving bark."

"I claim the combination of the convex traveling bed O, W, with the rotary knives V, and pressure rollers 1, 2, 4, and *h*, in the manner and for the purposes set forth."

No. 26,318. John E. Wootten, of Philadelphia, Pa., for an "Improvement in moving locomotive engines by hand power."

"I claim the application of the hydraulic piston D to the purpose of propelling a locomotive engine or rail road car upon the track by its direct action upon the periphery of the wheel, as herein described, combined with the peculiar arrangement of the plunger E, in reference to the piston D, whereby the latter is caused to advance and recede in concert with the plunger, by the aid of atmospheric pressure, and without the intervention of valves, in the manner and for the purpose substantially as herein set forth."

No. 26,319. Oscar M. Andrews, of Hecla Works, N. Y., assignor to A. K. Seymour, of same place, for an "Improved blind fastener."

"I claim arranging on the side of the frame B of a shutter or blind A, a rotary wedge-shaped cam D, in combination with a hook a^1, or its equivalent, fastened substantially in the manner and for the purpose specified."

No. 26,320. George Bradley, of Paterson, N. J., assignor to Jacob S. Rogers, of same place, for an "Improvement in can bottom for roving."

"I claim so mounting two or more ordinary can bottoms C, C^1, that the filled can may be removed from under the coiler, and an empty one substituted in its place by means simply of a partial rotation of the frame H, substantially as above described."

No. 26,321. JOHN P. BROADMEADOW, of Bridgeport, Conn., assignor to himself and Albert Eames, of same place, for an "Improvement in moulding for metal casting."

"I claim the combined use of a half flask of a sufficient size to hold the quantity of loose sand required to form a half mould, and of a follow board small enough to enter the said half flask and act as a piston to compress the sand therein, when pressure is applied, substantially as herein set forth. I also claim the combined use of a half flask, as above described, and of a strike, whose profile corresponds in form with the transverse section or profile of the pattern, substantially as herein set forth. I also claim the combined use of a half flask, as above described, constituting the cope of a ribbed cope plate, fitted to enter therein, and of sustaining pins in the said cope, the whole operating substantially as herein set forth. I also claim the combined use of the aforesaid cope plate of a bottom plate, fitted to enter the drag of the flask, and of clamps, substantially as herein set forth. I also claim combining the sprue pattern with the follow board, when this combination is used in connection with a match board, having an opening to permit the descent of the lower end of the sprue pattern, substantially as herein set forth. I also claim the combination of projections or indentations, or both, with the follow board, in contradistinction to constructing the flasks with projections and indentations."

No. 26,322. ALMON COOLEY, of Hartford, Conn., assignor to E. W. Sperry, J. H. Ashmead, E. Hurlbert, and Henry E. Robbins, of same place, for an "Improvement for holding knife handles for sol- for metal dering."

"I claim the above described device for holding knife blades, handles, &c., for soldering together, or their substantial equivalents, the rods C, cap D, bar E, springs I, operating in the manner substantially as set forth for the purpose specified."

No. 26,323. ALMON COOLEY, of Hartford, Conn., assignor to E. W. Sperry, J. H. Ashmead, E. Hurlbert, and Henry E. Robbins, of same place, for an "Improvement in holding knife handles for soldering."

"I claim the above described device for securing or holding handles (formed of two parts,) &c., and for soldering, or their substantial equivalents, the adjustable yielding clamps or brackets G, L, substantially in the manner and for the purpose described; the combination of the yielding clamps or brackets G, L, with a turn table D, or their substantial equivalents, substantially in the manner as and for the purpose described."

No. 26,324. THOS. HARVEY, of Worcester, Ohio, assignor to himself and David Kramer, of same place, for an "Improved washing machine."

"I claim the combination of the two vertical movable plates L, L^1, with the inclined planes D, D^1, and the fixed perforated corrugated partition N, the whole constructed, combined, arranged, and operated as herein-before described, and for the purposes set forth."

No. 26,325. WHEELER HEDGES, of Chicago, Ill., assignor to himself and P. W. Gates, of same place, for an "Improvement in pans for evaporating sugar juice."

"I claim, first, the arrangement of the pipes E, E, with the pipe F, in the pan B, so that the application of the steam to the pipes E, E, will cause the greatest ebullition, and the foam to raise highest longitudinally in the middle of the pan B, for the purpose of causing all impurities to be deposited upon the flaring sides P, P, of the pan B. Second, the construction and application of the flaring sides or beaches P and P, that, by their great obliqueness, retain all the scum thrown upon them, substantially as specified. Third, the construction and application of the defecator D, in combination with the evaporator, substantially as specified, and for the purpose herein set forth. Fourth, the stop boards Q, Q, in combination with the evaporator, as described and for the purpose set forth."

No. 26,326. MATTHEW HODKINSON, of Pittsburgh, assignor to Matthew Hodkinson, jr., of same place, for an "Improvement in retorts for distilling coal oil."

"I claim the stationary retort with a shaft armed with knives, whose edges are at right angles with the shaft passing through it, by which, when motion is given to the shaft, the coal is broken and pulverized more effectually and more economically than by any other method."

No. 26,327. FRANCIS J. LA FORME, of Boston, Mass., for an "Improvement in nursing bottles."

"I claim an improved nurse bottle, or one having an elastic tube, constructed and applied thereto, in manner and for the purpose set forth."

No. 26,328. DANIEL PENMAN and ELISHA FITZGERALD, of New York, N. Y., assignors to Wm. C. Walker and M. Penman, of same place, for an "Improved machine for manufacture ruches."

"I claim the pressing bar A, attached to the shaft L, by the arms M, (said shaft having a crank B) at its end, by the purpose described, in combination with the adjustable gauge bar I, hook rods D, and treadles H, the whole being constructed and operated substantially in the manner and for the purposes set forth."

No. 26,329. NEWMAN SILVERTHORN, of Prescott, Wis., assignor to James M. Allen, of Fredericktown, Ohio, for an "Improved boot and shoe tip."

"I claim as a new article of manufacture a boot or shoe tip, made of any of the known preparations of india rubber or gutta percha, and to be applied to the boot or shoe, in the manner substantially as herein described."

RE-ISSUES.

O. W. MINARD, of Waterbury, Conn., for an "Improvement in making brass kettles."—Patented 15th April, 1856.—Re-issued 29th November, 1859.

"I claim the employment of two rotating rollers for gripping, turning, and rolling the disc of metal, substantially as described, in combination with the clamps or holders for holding the disc of metal at any desired angle with the axis of the rollers, substantially as described, and for the purpose specified. And I also claim the concave and convex clamping plates, substantially as described, in combination with the rollers, or any equivalent mode of rolling the metal, substantially as described. And I also claim, in combination with the rollers for rolling, the disc of metal, the supporting rest for supporting the metal beyond the point of action of the griping rollers, substantially as set forth."

JEREMIAH W. MULLEY, of Amsterdam, N. Y., for an "Improvement in reaping and mowing machines."—Patented 10th February, 1857.—Re-issued 29th November, 1859.

"I claim so constructing and arranging the platform of a reaper as that it, or a portion of it, may be made to form a track clearer, when it is desired to convert the machine into a mower, substantially as herein specified."

JEREMIAH W. MULLEY, of Amsterdam, N. Y., for an "Improvement in reaping and mowing machines."—Patented 10th February, 1857.—Re-issued 29th November, 1859.

"I claim the hollow reel shaft made of sheet metal, or its equivalent, formed with boxes or bearings at or near each end, and made to revolve on an arm, supported at one end only, substantially as specified."

JEREMIAH W. MULLEY, of Amsterdam, N. Y., for an "Improvement in reaping and mowing machines."—Patented 10th February, 1857.—Re-issued 29th November, 1859.

I claim, first, the manner herein described of securing the detachable cutters or blades to or in their place on the cutter bar, and relatively to each other, by means of central holding screws, in combination with pins or studs on the bar to fit the recesses in the adjoining sides of the blades, substantially as set forth. Second, providing the fingers with the laterally projecting slips in front and rear of the slot in which the cutter bar plays, substantially in the manner and for the purposes specified. Third, the finger bar, arched as described, in combination with the fingers made with a swell or convex projection in their rear, substantially as herein set forth."

DESIGN.

J. B. VIROLET, of New York, N. Y., assignor to John W. Hoyt, of same place, for a "Design for floor cloths."

"I claim the combination of figures and devices herein described, and represented in the accompanying photographic impression, to form an ornamental pattern or design for a floor oil cloth."

Additional Improvement.

W. W. Hollman, of Eddyville, Ky., for an "Improvement in straw cutters." — Patented 30th March, 1858.— Additional Improvement, 29th November, 1859.

"I claim the combination and arrangement of the devices for operating the knife and feeding box, substantially as above described."

List of Specifications published during the week ending 16th December, 1859.

No.	Price.	Subject-Matter.
1157	8*d.*	Machinery for printing fabrics.
1158	9*d.*	Self-regulating horse machine.
1159	3*d.*	Obtaining power by the impulsion of water.
1160	3*d.*	Stamp for marking linen, &c.
1161	3*d.*	Cartridge holders.
1162	6*d.*	Lamps.
1163	1*s.* 6*d.*	Machinery for weaving figured fabrics.
1164	1*s.* 7*d.*	Obtaining motive power.
1165	10*d.*	Apparatus for preventing the explosion of steam boilers.
1166	3*d.*	Apparatus for lubricating the pistons of steam engines.
1167	6*d.*	Ordnance, fire-arms, and projectiles.
1168	3*d.*	Steam generators or boilers.
1169	5*d.*	Buttons and fastenings.
1170	5*d.*	Apparatus for regulating the pressure of gas.
1171	9*d.*	Furnaces.
1172	7*d.*	Shuttles.
1173	3*d.*	Matches or fusees.
1174	7*d.*	Furnace or heating apparatus, &c.
1175	3*d.*	Cartridges.
1176	7*d.*	Apparatus for separating substances of different specific gravities.
1177	3*d.*	Impregnating illuminating gas with hydro-carbon vapour.
1178	3*d.*	Extracting and purifying sugar.
1179	3*d.*	Manufacture of colouring matter.
1180	8*d.*	Carding engines.
1181	5*d.*	Burling and napping machine.
1182	9*d.*	Balancing millstones.
1183	5*d.*	Protecting the mariners' compass against local attraction.
1184	3*d.*	Bridles.
1185	7*d.*	Knapsacks, &c.
1186	3*d.*	Haymaking machines.
1187	10*d.*	Pumps.
1188	10*d.*	Omnibuses, &c.
1189	9*d.*	Sewing machines and apparatus, and apparatus connected therewith.
1190	9*d.*	Securing rails on railways.
1191	7*d.*	Machinery for solidifying, pressing, and moulding.
1192	3*d.*	Manufacture of soft soap.
1193	9*d.*	Building ships and other vessels.
1194	11*d.*	Insulation of telegraphic or electric conductors.
1195	3*d.*	Sawing machines.
1196	11*d.*	Surface condenser and refrigerator.
1197	2*s.* 10*d.*	Knitting machines.
1198	3*d.*	Puddling furnaces.
1199	3*d.*	Steam vessels.
1200	10*d.*	Manufacture of moulds for casting.
1201	2*s.* 6*d.*	Manufacture of bread, &c.
1202	3*d.*	Cooking, preserving, and drying animal and vegetable substances.
1203	10*d.*	Machinery for treating india-rubber, &c.
1204	10*d.*	Manufacture of hooped skirts.
1205	4*d.*	Preparation of colors for dyeing and printing.
1206	3*d.*	Ships' night signals.
1207	9*d.*	Chain harrows.
1208	10*d.*	Apparatus for facilitating the draught of carriages.
1209	3*d.*	Dyeing.
1210	3*d.*	Projectiles for fire-arms.
1211	3*d.*	Oven or stove for baking, drying, &c.
1212	3*d.*	Metallic buildings.
1213	3*d.*	Covering wires and other metal conductors for telegraphic purposes.
1222	6*d.*	Menstrual receiver or truss.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

Museum of Patents, South Kensington.

Number of Visitors for the Week ending 17th December, 1859.

Mornings - - - -	530
Evenings - - - -	872
Total - - -	1402

Since the opening of the Museum Free Daily (May 12, 1858,)—167,093.

THIS Museum is open to the public daily, free of charge. The hours of admission are from 10 A.M. to 6 P.M., and in the evenings of Monday, Tuesday, and Wednesday from 7 to 10 P.M.

All communications on the subject of the Museum to be addressed to the Superintendent,

B. Woodcroft.

Great Seal Patent Office,
Southampton Buildings.

Gallery of Portraits of Inventors, Discoverers, and Introducers of Useful Arts. —This Collection, formed by Mr. Woodcroft, and first opened to public view in the Great Seal Patent Office in 1853, now constitutes a portion of the Patent Museum at South Kensington.

Presentations of original Portraits, Medallions, Busts, and Statues, in augmentation of the Collection, are hereby invited, and will on receipt be acknowledged in this Journal, and duly recorded in the next published Catalogue.

This Journal is published on the evenings of Tuesday and Friday, and will be forwarded, post free, to Subscribers. — Terms, 30*s.* per annum. — Subscriptions received at the Great Seal Patent Office, where also single copies, at twopence each, may be obtained.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(Registered for transmission abroad.)

No. 623. **FRIDAY, DECEMBER 23, 1859.** **Price 2d.**

Grants of Provisional Protection for Six Months.

NOTICE is hereby given that Provisional Protection has been allowed

2478. To ISAAC BROWN, of the city of Carlisle, Merchant, for the invention of "Improvements in the treatment of growing crops."

2482. And to ANTOINE CHEVRIER, of No. 21, Rue du Faubourg St. Martin, in the city of Paris, in the empire of France, Apothecary, for the invention of "Neutralizing the smell and savour of all vegetable and animal substances without their being adulterated by the use of essences of spirits and aromatical products."

On both their petitions, recorded in the Office of the Commissioners on the 31st day of October, 1859.

2538. To ADOLPHE LEARCH, of Brussels, in the kingdom of Belgium, Journalist, for the invention of "An improved process of manufacturing embossed sheets or stuffs, called embossed fictitious leather for hangings and household furniture."——A communication from Henry Hendryckx, resident at St. Josse-Ten-Noode, near Brussels.

On his petition, recorded in the Office of the Commissioners on the 8th day of November, 1859.

2583. To HENRY JOHN DANIELL, of Donnington Park, in the county of Leicester, late Colonel in the Coldstream Guards, for the invention of "Improvements in the construction of breech-loading fire-arms."

On his petition, recorded in the Office of the Commissioners on the 14th day of November, 1859.

2622. To CHARLES BOSC, of 2, Rue St. Appoline, Paris, France, and of 45, Essex Street, Strand, London, Merchant, for the invention of "The manufacture of artificial marbles."

2626. And to JEHU HOLLINGSWORTH, of Cecil Street, Strand, in the city of Westminster, Gentleman, for the invention of "Improvements in the mode of and machinery for cutting irregular and other forms." — Partly a communication from abroad by Charles P. Bailey, of Zanesville, Ohio, United States of America.

On both their petitions, recorded in the Office of the Commissioners on the 19th day of November, 1859.

2648. To WILLIAM HENRY WARD, of the city of Auburn, in the county of Cayuga, and state of New York, one of the United States of North America, for the invention of "Improved signal lanterns."

On his petition, recorded in the Office of the Commissioners on the 23rd day of November, 1859.

2666. To WILLIAM SMITH, of No. 19, Salisbury Street, Adelphi, Civil Engineer, for the invention of "Improvements in applying and working propellers in boats or vessels."—A communication from abroad by M. Eugene Lacroix, fils, of Rouen, Engineer.

On his petition, recorded in the Office of the Commissioners on the 25th day of November, 1859.

2706. To BERNHARD SAMUELSON and WILLIAM MANWARING, both of the Britannia Works, Banbury, in the county of Oxford, for the invention of "Improvements in reaping and mowing machines."

2708. To EDWARD DORSETT, of No. 76, Old Broad Street, in the city of London, Tar Distiller, for the invention of "A new manufacture of heavy oil."

2710. To HIPPOLYTE DE MATTHYS, Civil Engineer, of Antwerp, in the kingdom of Belgium, for the invention of "Improvements in electric telegraph cables."

2712. To WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of

"Improvements in the construction of pianofortes."—A communication from abroad by Frederick Mathushek, of New York, in the United States of America.

2714. And to JOHN LAWSON and STEPHEN COTTON, both of Leeds, in the county of York, Machinists, for the invention of "Improvements in machinery for cutting and forming the teeth or cogs of wheels."

On their several petitions, recorded in the Office of the Commissioners on the 30th day of November, 1859.

2716. To GEORGE KENNEDY GEYELIN, Civil Engineer, of 462, Oxford Street, London, in the county of Middlesex, for the invention of "Making close folding metallic spring laths, mattresses, and bedsteads."

2718. To ALPHONSE MOSSELMAN, of Rue Saint Ghislain, No. 17, Gentleman, for the invention of "An aromal electrical girdle."

2720. To JAMES COCKS, of No. 25, Cornhill, in the city of London, Tailor, for the invention of "Improvements in the mode of manufacturing cloths or materials for trowserings."

2722. To WILLIAM EDWARD NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for the invention of "Improved apparatus applicable for beating eggs, or mixing substances or liquids."—A communication from abroad by Edwin Pear Monroe, of New York, in the United States of America.

2724. To GEORGE DAVIDSON, of Mugie Moss, in the county of Aberdeen, Paper Manufacturer, for the invention of "Improvements in the manufacture of paper bags, and in the machinery or apparatus used therein."

2726. And to NATHANIEL SHATTSWELL DODGE, of No. 44, St. Paul's Churchyard, in the city of London, Merchant and Manufacturer, for the invention of "Improvements in the construction of lamps."—A communication from abroad by William Fulton, of Cranberry, in the county of Middlesex, New Jersey, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 1st day of December, 1859.

2728. To JOHN MOORE, of No. 46, New Road, Woolwich, in the county of Kent, Ironmonger, for the invention of "An improved damper of chimnies and flues."

2730. To DANIEL MAKINSON, of Bolton-le-Moors, in the county of Lancaster, Mechanic, and JAMES HOPE, of Harwood Lee, near Bolton-le-Moors aforesaid, Carder, for the invention of "Certain improvements in carding engines."

2732. To WILLIAM HENRY ALDRIDGE, of Kingsdown, in the city of Bristol, Iron Merchant, for the invention of "Certain improvements in paddle wheels or propellers of steam ships."

2734. And to ALFRED VINCENT NEWTON, of the Office for Patents, No. 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "An improved mode of treating india rubber, gutta percha, and analogous gums."—A communication from abroad by George August Engelhard and Horace Hollister Day, of New York, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 2nd day of December, 1859.

2736. To THOMAS HALL, of Ancoats Grove, in the city of Manchester, Foreman, for the invention of "Certain improvements in the construction of cartridges."

2738. To FRANCIS PALLING, of Esher Street, Lambeth, county of Surrey, Clerk, for the invention of "Improvements in the construction of lamps for burning oils and tallow."

2742. To PERCEVAL MOSES PARSONS, of Arthur Street West, London Bridge, in the county of Middlesex, Engineer, for the invention of "Improvements in fire arms and projectiles."

2744. And to JOHN RUDKIN, of the Slate Works, Groby, near Leicester, for the invention of "Improvements in stoppers for bottles."

On their several petitions, recorded in the Office of the Commissioners on the 3rd day of December, 1859.

2748. To JOHN HAWKINS, of Lisle Street, London, in the county of Middlesex, and of Walsall, in the county of Stafford, Bit, Spur, and Stirrup Manufacturer, and CHARLES HAWKINS, of Walsall aforesaid, Manager of the works of the said John Hawkins, for the invention of "Certain improvements in the construction of furnaces for consuming smoke, applicable to stationary and marine boilers, and other closed fire-places."

2752. To GEORGE FELDWICK, of St. Martin's Court, in the city of Westminster, Ironmonger, for the invention of "An improvement in roller blinds."

2754. And to WILLIAM HUTTON, of West Hartlepool, in the county of Durham, Gentleman, for the invention of "Improvements in preventing the destruction of the timbers of piers, docks, and other structures by the action of sea worms or other marine animals."

On their several petitions, recorded in the Office of the Commissioners on the 5th day of December, 1859.

2758. To CHARLES SELLS, of Stockwell, in the county of Surrey, Engineer, for the invention of "Improvements in marine steam engines for driving screw and other propellers."

2760. To JAMES JONES, Assistant Manager, and JOHN HILTON, Millwright, both of Rhodes, near Middleton, in the county of Lancaster, for the invention of "Improvements in apparatus to be used in dyeing, dunging, soaping, and clearing fabrics."

2764. And to FERDINAND POTTS, of the firm of F. Potts and Co., Patent Tube Manufacturers, of Birmingham, in the county of Warwick, for the invention of "Improvements in the mode of manufacturing or finishing tubes for certain purposes."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of December, 1859.

2765. To FREDERICK LEVICK, of Blaina Cwm Celyn and Coalbrook Vale Iron Works, in the county of Monmouth, Iron Master, for the invention of "A new or improved coke oven."

2767. To James Anderson, of Newton, in the county of Ayr, North Britain, for the invention of "Improvements in obtaining motive power."

2768. To Thomas Bradford, of Manchester, in the county of Lancaster, Machinist, for the invention of "Certain improvements in machinery or apparatus for wringing and mangling textile fabrics."

2769. To Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for the invention of "Improvements in marine steam engines for driving screw and other propellers, and in screw propellers."—A communication from abroad by Nicolas Hippolyte Labrouse, of Paris.

2770. To Frederick William Schäfer, of the firm of P. and F. Schäfer, of Brewer Street, in the county of Middlesex, Manufacturers, for the invention of "Improvements in cash, deed, jewel, and other boxes."

2771. To Robert Hanham Collyer, of 8, Alpha Road, Saint John's Wood, in the county of Middlesex, M.D. and Ph. D., for the invention of "A chemical ink-pencil or composition applicable as an instrument or means for writing, drawing, and marking."

2772. To Moritz Jacoby, of Nottingham, for the invention of "Improvements in the manufacture of twist lace."

2773. To Thomas Richards Harding, of Leeds, in the county of York, Hackle Pin Manufacturer, for the invention of "Improvements in combs or hackles for combing, carding, or hackling flax, cotton, silk, or other fibrous materials (which are also applicable to raising the nap or pile of woollen or other cloths), and in the making of pins or teeth for such combs or hackles."

2775. To Charles Constant Simonet de Changy, of Boulogne-sur-Mer, in the empire of France, for the invention of "Improvements in the manufacture of bread, which improvements are also applicable in the preparation of dough or paste for other purposes."

2776. To Joseph Mabbott, of No. 7, Sunbury Terrace, Liverpool Road, in the county of Middlesex, for the invention of "Improvements in windguards for chimnies."

2777. And to Robert Thomson Pattison, residing at Daldorch House, in the county of Ayr, in Scotland, for the invention of "Improvements in printing and dyeing certain woven fabrics and yarns."

On their several petitions, recorded in the Office of the Commissioners on the 7th day of December, 1859.

2778. To William Spence, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, for the invention of "Improvements in rotating harrows."—A communication from abroad by Sidney S. Hogle, of Cleveland, in the county of Cuyahoga, and state of Ohio, United States.

2779. To John Gay Newton Alleyne, of Butterley Iron Works, Alfreton, in the county of Derby, for the invention of "Improvements in the manufacture of boilers, ships, tanks, and other hollow vessels of iron and steel."

2780. To John Arrowsmith, of Bilston, in the county of Stafford, Engineer, for the invention of "A new or improved method of constructing land batteries and gun boats."

2781. To John Arrowsmith, of Bilston, in the county of Stafford, Engineer, for the invention of "Improvements in the manufacture of beams or girders, and in machinery and furnaces used in the said manufacture."

2783. To Robert Gray, of Sheffield, in the county of York, Wire Drawer and Crinoline Steel Manufacturer, and Thomas Houghton Scholfield, of the same place, Manager, for the invention of "Improvements in flattening and tempering steel wire and sheet steel, and also in the tubes employed in the furnaces."

2784. To Thomas Crook, of Bolton-le-Moors, in the county of Lancaster, Jacquard Card Maker, for the invention of "Improvements in machinery or apparatus for making paper bags."

2785. To William Prosser and John Hogg, both of Witton Park, Darlington, in the county of Durham, for the invention of "An improved cooking apparatus particularly suitable for military purposes."

2786. To John Norris, junior, of Birmingham, in the county of Warwick, Manufacturer, and Thomas Till, of Birmingham Heath, in the same county, Engineer and Machinist, for the invention of "Improvements in machinery to be used in manufacturing horse-nails and other wrought nails."

2787. To Frederick Henry Elliott and Charles Alfred Elliott, of the Strand, in the city of Westminster, Mathematical Instrument Makers, for the invention of "An improved method of preventing drawing boards and other flat wooden surfaces from warping or twisting, and of adding to the strength thereof."

2788. To Augustus Rumpff, of the firm of Weintraud, Rumpff, and Company, of King Street, Cheapside, in the city of London, Manufacturers, for the invention of "An improved fastening for portemonnaies, portfolios, bags, and other like articles."—A communication from abroad by C. Weintraud the younger, of Offenbach.

2789. To John Macintosh, of 40, North Bank, Regent's Park, in the county of Middlesex, for the invention of "Improvements in the manufacture of waterproof and other fabrics, and of moulded or formed articles."

2790. To John Macintosh, of 40, North Bank, Regent's Park, in the county of Middlesex, for the invention of "Improvements in setting artificial teeth."

2791. And to John Macintosh, of 40, North Bank, Regent's Park, in the county of Middlesex, for the invention of "Improvements in cartridges and projectiles."

On their several petitions, recorded in the Office of the Commissioners on the 8th day of December, 1859.

2792. To William Boaler, of No. 76, Cedar Street, New York, in the United States of America, Merchant, for the invention of "An improved compound for washing purposes."

2793. To JOHN LAWSON, of Glasgow, in the county of Lanark, North Britain, Designer, and WILLIAM HAGO, of the same place, Clockmaker, for the invention of "Improvements in apparatus to be used in spinning or twisting."

2794. To JOEL SPILLER, of Cardiff, in the county of Glamorgan, Wales, Civil Engineer, for the invention of "Improvements in articles or bodies formed of plastic clay."

2795. To JOHN TENWICK, of Clarendon Street, (Albion Foundry,) Portsmouth, Hampshire, for the invention of "Improvements in the construction of steering apparatus adapted for ships and such like navigable vessels."

2796. To HESKETH HUGHES, of Homerton, in the county of Middlesex, Engineer, and JOHN MOORE, of Manchester, in the county of Lancaster, Manufacturer, for the invention of "Improvements in machinery for transferring and for transferring and engraving designs and figures on to cylindrical and flat surfaces."

2797. To JOHN DEARMAN DUNNICLIFF, of Nottingham, for the invention of "An improvement in the manufacture of bonnet fronts and ruches."

2798. To WILLIAM BETTS, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, for the invention of "An improved manufacture of capsules."

2799. And to JAMES THOMSON, ROBERT THOMSON, and HENRY THOMSON, all of Buckden, in the county of Huntingdon, for the invention of "An improved agricultural implement."

On their several petitions, recorded in the Office of the Commissioners on the 9th day of December, 1859.

2800. To RUDOLPH HEILMAN, of the city of Manchester, in the county of Lancaster, Manufacturing Chemist, for the invention of "The preparation of a new colour, called Azaleine, and its applications to dyeing and printing."—A communication from Jean Gerber Keller, of Mullhouse, in the empire of France, a foreigner residing abroad.

2801. To FREDERICK CRACE CALVERT and CHARLES LOWE, both of the city of Manchester, in the county of Lancaster, Analytical Chemists, for the invention of "Improvements in dyeing and printing certain yarns and fabrics."

2802. To GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the county of Middlesex, and No. 28, St. Enoch Square, in the city of Glasgow, Civil Engineer and Patent Agent, for the invention of "An improvement in tobacco pipes, mouthpieces, and cigar or cigarette holders."—A communication from abroad by Messrs. Viney, Sommer, and Hamm, all of Paris, France.

2803. To WILLIAM HORTON, of Smethwick, in the county of Stafford, Boiler and Gas Holder Manufacturer, for the invention of "An improvement or improvements in steam boilers."

2804. To CHARLES GAMMON, of No. 9, Cloak Lane, in the city of London, Solicitor, for the invention of "An improved fastener for gloves and other articles."

2805. To JAMES FARQUHAR, of the city and county of Aberdeen, North Britain, Clerk, for the invention of "Improvements in gas meters."

2806. To WILLIAM WHITELEY, of Lockwood, near Huddersfield, in the county of York, Machinist, for the invention of "Improvements in looms for weaving."

2807. To JOHN CHATTERTON, of 19, Wharf Road, City Road, in the county of Middlesex, Lead Manufacturer, for the invention of "Improvements in the manufacture of projectiles."

2808. To ISAAC LOWTHIAN BELL, of the Washington Chemical Works, Newcastle-upon-Tyne, for the invention of "Improvements in the manufacture of the sulphate of magnesia."

2809. To. JOHN CHATTERTON, of Highbury Terrace, and WILLOUGHBY SMITH, of Pownall Road, Dalston, both in the county of Middlesex, for the invention of "Improvements in insulating telegraphic conductors, and in the treatment of gutta percha."

2810. To SAMUEL WILLIAM CAMPAIN, of Deeping Saint Nicholas, in the county of Lincoln, Farmer, for the invention of "Improved machinery for removing or elevating straw and other agricultural produce."

2811. To WILLIAM WINGFIELD BONNIN (British subject) and FRANCIS PONS (Sardinian subject), both of Genoa, Italy, for the invention of "A new system and improvements in locomotive engines."

2812. And to DAVID STICKLAND, of Hayle, in the county of Cornwall, Mine Agent, for the invention of "An apparatus for separating, sifting, sorting, and cleansing mineral ores."

On their several petitions, recorded in the Office of the Commissioners on the 10th day of December, 1859.

2813. To RICHARD EMERY, of No. 6, Kings Street, St. James' Square, in the city of Westminster and county of Middlesex, for the invention of "Improvements in carriages for common roads."

2814. To JOHN ROBERT BRECKON, of Darlington, in the county of Durham, Accountant and Colliery Manager, and ROBERT DIXON, of Crook, in the said county of Durham, Mechanical Engineer, for the invention of "Improvements in the construction of coke ovens."

2815. To PRINCE GUSTAVE GENNERICH, of Poland, at the British and Foreign Office for Patents, No 1B, Welbeck Street, Cavendish Square, in the county of Middlesex, for the invention of "A new system of motive power, applicable for working cranes and wheels."

2816. To THOMAS STATHER, of Kingston-upon-Hull, Engineer, for the invention of "Improvements in the ventilation of buildings, ships, and other enclosed places."

2817. To PATRICK STIRLING, of Kilmarnock, in the county of Ayr, North Britain, for the invention of "Improvements in traction engines."

2818. To GEORGE CHURCHILL WATSON, of the city of Chester, Physician, for the invention of "Novel and artistic bricks or 'lumps' for the reception, growth, and propagation of ferns, mosses, and other plants."

2819. To GEORGE LOUGH, of Flemington, North Melburn, Victoria, Australia, for the invention of "An improved compound motive power engine."

2820. To GEORGE HANDSON ROLLET, of Liverpool, in the county of Lancaster, Engineer, for the invention of "An improved machine for the manufacture of pressed bullets."

2821. To WILLIAM CLAY, of Liverpool, in the county of Lancaster, Iron and Steel Manufacturer, for the invention of "An improved mode of manufacturing cannon and other ordnance."

2822. To JOHN RAPHAEL ISAAC, of Liverpool, in the county of Lancaster, Draughtsman, for the invention of "Improvements in the construction of hand-boxes for travellers."

2823. To JOHN BAILEY, of Dunstable, for the invention of "Improvements in the manufacture of corsets and stays."

2824. And to WILLIAM TEALE, of Wakefield, in the county of York, Grease Manufacturer, for the invention of "Improvements in treating fatty and oily matters obtained from wash waters." — A communication from abroad by Mons. Kirsch, of Aix la Chapelle, in the kingdom of Prussia.

On their several petitions, all recorded in the office of the Commissioners on the 12*th day of December*, 1859.

2825. To CALEB VINALL, House Decorator, of 25, Walton Street, Brompton, in the county of Middlesex, for the invention of "Improvements in, and mechanism for, retaining the rollers of window blinds, maps, charts, and other articles requiring to be wound on rollers."

2826. To THEOPHILUS REDWOOD, of 19, Montague Street, Russell Square, in the county of Middlesex, for the invention of "Improvements in the manufacture of paper and of substances used in paper making, and for other purposes."

2827. To GEORGE WITHERS, Engineer and Machinist, of West Bromwich, in the county of Stafford, for the invention of "Certain improvements in blocks for moulding and shaping glass during the process of blowing or forming glass, for blowing sheet glass, glass shades, and such like articles."

2828. To JOHN ROBERT JOHNSON, of Hammersmith, and JOHN STAINES ATKINSON, of Red Lion Square, both in the county of Middlesex, for the invention of "Improvements in machinery for manufacturing printing types."

2829. To WILLIAM HARDING, of Rutland Terrace, Forest Hill, in the county of Kent, for the invention of "Improvements in breech loading fire-arms and in cartridge carriers."

2830. To JOHN BARLING, of Belle Grange, in the county of Lancaster, Gentleman, for the invention of "Improvements in propelling vessels."

2831. To WILLIAM ROBINSON, of Wembdow, Bridgewater, in the county of Somerset, Brewer, for the invention of "Improvements in cask washing machines."

2833. And to JAMES HILL DICKSON, of Commercial Street, Rotherhithe, in the county of Surrey, Machine Maker, for the invention of "Improvements in the manufacture of yarns and in the machinery to be employed in the preparation of certain fibres to be thus manufactured into yarns."

On their several petitions, recorded in the Office of the Commissioners on the 13*th day of December*, 1859.

2835. To WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "A heating apparatus for boots and shoes and other coverings for the feet." —A communication from abroad by Messrs. Bibet, Leger, and Faury, of 29, Boulevart St. Martin, Paris, Merchants.

2837. To JAMES CHAMPION, of the city of Manchester, in the county of Lancaster, Machine Maker, for the invention of "Certain improved arrangements of spindles, flyers, and bobbins, applicable to machinery or apparatus for preparing, spinning, and doubling fibrous materials."

2839. To GEORGE LEACH, of Britannia Mills, Leeds, in the county of York, Yarn Spinner and Cloth Manufacturer, for the invention of "An improved mode of and apparatus for oiling, preparing, and mixing wood."

2841. To RAMSEY LAWSON, of Manchester, in the county of Lancaster, Engineer, for the invention of "Certain improvements in machinery or apparatus for punching patterns or devices upon metallic printing rollers or cylinders."

2843. To JOSEPH RHODES, of Wakefield, in the county of York, Engineer, for the invention of "Improvements in steam hammers."

2845. To WILLIAM WATSON, of Leeds, in the county of York, Manufacturing Chemist, for the invention of "An improvement in preparing indigo for dyeing and other purposes."

2847. And to WILLIAM ROBINSON CROCKER, of Northumberland Street, Strand, in the county of Middlesex, for the invention of "Improvements in cutting corks and bungs, and in apparatus employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 14*th day of December*, 1859.

2851. To BARTOLOMMEO PREDAVALLE, of Bloomsbury Street, Bloomsbury Square, in the county of Middlesex, Civil Engineer, for the invention of "Improvements in producing or obtaining motive power."

2853. To WILLIAM WESTWOOD, of No. 43, West Square, in the borough of Southwark, in the county of Surrey, Coal Merchant, for the invention of "Improvements in the manufacture and burning of Portland cement."

2855. To JAMES KELITA HARDY, of Fenchurch Street, in the city of London, Merchant, for the invention of "Improvements in the manufacture of bottle stands."

2857. To CHARLES HANCOCK, of West Street, West Smithfield, in the city of London, Gutta Percha Manufacturer, for the invention of "Improvements in insulating telegraphic conductors, and manufacturing cables for telegraphic purposes."

2859. And to DANIEL JOSEPH FLEETWOOD, of Birmingham, Copper Agent, for the invention of

"Improvements in machinery for raising and stamping metal."

On their several petitions, recorded in the Office of the Commissioners on the 15th day of December, 1859.

Inventions protected for Six Months by the Deposit of a Complete Specification.

Notice is hereby given, that the petition of

2873. THADDEUS FAIRBANKS, of St. Johnsbury, in the county of Caledonia, and state of Vermont, of the United States of America, praying for Letters Patent for the invention of "An improved scale for weighing letters," was deposited and recorded in the Office of the Commissioners on the 17th day of December, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

Notice is also hereby given, that the petition of

875. MATHEW WRIGHT, 17, Gracechurch Street, London, praying for Letters Patent for the invention of "Fastening packing cases by which they cannot be opened without such opening being detected, and termed by me 'detective fastening for packing cases,'" was deposited and recorded in the Office of the Commissioners on the 17th day of December, 1859, and a complete specification accompanying such petition was at the same time filed in the said office.

And Notice is also hereby given, that the petition of

2896. JOSEPH WILLCOCK, Mechanical Draughtsman, of 89, Chancery Lane, London, praying for Letters Patent for the invention of "A new and improved machine for cutting or mincing meat, vegetables, &c."—a communication from abroad by Albert W. Hale, of New Britain, state of Connecticut, United States of America—was deposited and recorded in the Office of the Commissioners on the 20th day of December, 1859, and a complete specification accompanying such petition was at the same time filed in the said Office.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

23rd December, 1859.

1520. GEORGE REDRUP, of the Loughborough Brewery, Loughborough, in the county of Leicester, Brewer, for an invention of "Machinery for the cutting of shives, bungs, corks, spiles, and vent or other pegs."—Dated 24th June, 1859.

1526. CHARLES WYE WILLIAMS, of Liverpool, in the county of Lancaster, for an invention of "Improvements in steam boilers."—Dated 25th June, 1859.

1532. ROBERT DICK, of the city of Toronto, in the county of York and province of Canada, for an invention of "Keeping accounts current in printed form, for addressing cards, circulars, papers, and periodicals of all kinds, with great rapidity, by the aid of a very simple machine, which is a constituent part of this invention."—Dated 27th June, 1859.

1541. JOHN MARIA JOSEPH BAILLIE, of No. 15, St. Mary Axe, in the city of London, for an invention of "A new process for tanning hides and skins."—A communication from Monsieur A. Paulmier, resident at Paris, in the empire of France.—Dated 28th June, 1859.

1545. WILLIAM WRAY snd JOHN WRAY, both of Leeming, near Bedale, Yorkshire, for an invention of "Certain improvements in reaping machines."—Dated 29th June, 1859.

1549. WILLIAM JOHN THOMPSON WILLIAMSON, of 37, Gerrard Street, Soho, in the county of Middlesex, for an invention of "Improvements in gas burners."—Dated 29th June, 1859.

1557. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the city of London, E.C., Patent Agent, for an invention of "Improvements in lithographic and chromolithographic presses."—A communication from abroad by Jean Théodore Dupuy, of Paris.—Dated 30th June, 1859.

1567. BRIDGE STANDEN, of Salford, in the parish of Manchester and county of Lancaster, Chymist, for an invention of "Improvements in the deodorizing and separation of fecal and putrescent organic matters, in the preparation or manufacture therefrom of a portable artificial manure or fertilizing compound, and in apparatus to be employed in such preparation or manufacture."—Dated 1st July, 1859.

1579. ROBERT WHITESIDE MORVILLE, of Pendleton, Salford, in the county of Lancaster, late of the United States, Engraver, for an invention of "Improvements in mechanism, or arrangements for suspending and securing window sashes."—A communication from abroad by Porter A. Gladwin, of Pawtucket, Rhode Island, United States.—Dated 2nd July, 1859.

1601. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "An apparatus for washing wool manufactured or not, and all other matters."—A communication from abroad by Eugène Pasquier, No. 10, Rue Mogador, Paris, in the empire of France,—Dated 6th July, 1859.

1656. WILLIAM AUGUSTUS MUNN, of Thrawley House, near Feversham, in the county of Kent (late a Major in the East Kent Militia), a Deputy Lieutenant and Justice of Peace for the said county of Kent, for an invention of "Improvements in reaping machines."—Dated 13th July, 1859.

1761. Christopher Kingsford, of Seaton, near Wingham, in the county of Kent, Civil Engineer, for an invention of "Improvements in the preparation of peat and charcoal for fuel, in the manufacture of coke therefrom, and in the machinery and apparatus employed for effecting the same."—Dated 15th July, 1859.

1735. John Henry Johnson, of 47, Lincoln's Inn Fields, in the county of Middlesex, and of 166, Buchanan Street, in the city of Glasgow, North Britain, Gentleman, for an invention of "Improvements in slide valves for steam engines."—A communication from abroad by Richard C. Bristol, of Chicago, United States of America.—Dated 26th July, 1859.

1781. William Edward Newton, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "An improvement applicable to salinometer cases for steam boilers."—A communication from abroad by Joseph Grice, of New York City, in the United States of America.—Dated 1st August, 1859.

2423. Francis North Clerk, of the firm of Peyton and Clerk, of Birmingham, in the county of Warwick, Edge Tool Manufacturers, and Charles Thomas, of Birmingham aforesaid, Foreman of Works, for an invention of "Improvements in cleavers or choppers." — Dated 22nd October, 1859.

2445. John Zuill Kay, of Dundee, in the county of Forfar, North Britain, Gas Engineer, for an invention of "Improvements in gas meters, and in apparatus for maintaining or preserving the levels of liquids."—Dated 26th October, 1859.

2511. Louis Koch, Engineer, of New York, in the United States of America, for an invention of "A moving tread power." — Dated 4th November, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 21st December*, 1859, *inclusive.*)

19th December.

3029. William Henry Stratton, of 179, Lambeth Walk, Lambeth, Tobacconist, for an invention of "Improvements in the fire door of furnaces."—Dated 22nd December, 1856.

3030. James Redgate, Edwin Ellis, and John Cropper, of Nottingham, for an invention of "Improvements in bobbin net or twist lace machinery."—Dated 22nd December, 1856.

3044. James Lark, of 5, Bridge Foot, Vauxhall Cross, in the county of Surrey, for an invention of "Improvements in kilns for burning materials in the manufacture of lime and cements."—Dated 23rd December, 1856.

3054. William Taylor, of Nottingham, Manufacturing Stationer, for an invention of "Improvements in producing various ornamental effects upon fabrics, paper, and other surfaces."—Dated 24th December, 1856.

21st December.

3023. William James Payne, Brass Founder, 119, Waterloo Road, Lambeth, in the county of Surrey, for an invention of "Certain improvements in casting and finishing cocks for general purposes."—Dated 22nd December, 1856.

3028. Thomas Lyon Thurlow, of Baynard's Park, in the county of Surrey, Esquire, for an invention of "Improvements in reaping-machines."—Dated 22nd December, 1856.

3034. William Beckett Johnson, of Altrincham, in the county of Chester, Manager for Messrs. Ormerod and Son, Engineers, Manchester, for an invention of "Improvements in steam engines and apparatus connected therewith." — Dated 22nd December, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 21st December*, 1859, *inclusive.*)

19th December.

1127. John Roydes, of Greengate, near Rochdale, in the county of Lancaster, Cotton Carder, for an invention of "Improvements in machinery or apparatus for drawing cotton and other fibrous substances."—Dated 21st December, 1852.

20th December.

1121. George Beadon, of Creechbarrow, near Taunton, in the county of Somerset, now of St. Mary's, Scilly, Commander in the Royal Navy, for an invention of "Improvements in constructing and propelling ships and vessels."—Dated 21st December, 1852.

21st December.

1180. William Busfield, of Bradford, in the county of York, Overlooker to Messrs. Waud and Company, of the same place, for an invention of "Improvements in apparatus for combing wool and other fibrous substances requiring like process."—Dated 28th December, 1852.

Erratum in Journal of 16th December.

2729. For "Bradson" read "Brabson."

FOREIGN PATENTS.



FRANCE.

CURRENT LIST of PATENTS of Invention and Certificates of Addition.

1859.

(Communicated by His Excellency the Minister of Agriculture, Commerce, and Public Works.)

NOTE.—The duration of a Patent is fifteen years, except where determined by that of a previously existing foreign Patent.*

42,051. BAJARD, son, of Rive de Gier, département de la Loire, for "Handles of shovels."—Dated 9th September, 1859.

42,052. BARON, of 16, Rue des Glandèves, Marseille, for "An apparatus for stoppering bottles."—Dated 3rd September, 1859.

42,053. BRESSANT, of 1, Rue des Clefs, Avignon, for "A product called 'Rhamnoxatnine garancine.'"—Dated 2nd September, 1859.

42,054. BURT, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A mechanism for facilitating the removal of railway carriages by hand."—Dated 2nd September, 1859.

42,055. CHEVILLARD and MARTIN, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for puncturing designs."—Dated 3rd September, 1859.

42,056. CLAUZEL, of 20, Rue du Petit Saint Jean, Marseille, for "Apparatus for the manufacture of oil."—Dated 3rd September, 1859.

42,057. COLLYER, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in preparing substances for the manufacture of paper."—Dated 2nd September, 1859.—(English, 2nd March, 1859.)

42,058. COPPÉE, represented by Picard, of 7, Rue St. Jean, Montmartre, département de la Seine, for "Washing coal."—Dated 1st September, 1859.

42,059. CROUTTE, of St. Aubin-le-Cauf, département de la Seine Inférieure, for "A chronodometer or instrument for measuring the speed attained and distance travelled over in a given time."—Dated 6th September, 1859.

42,060. DERENNE, of Marly, département du Nord, for "A machine for screw-cutting bolts, screw-rings, &c. by the hot process."—Dated 5th September, 1859.

42,061. DUBIED, of Mulhouse, département du Haut-Rhin, for "An arrangement for utilizing the waste gas of fire-places."—Dated 7th September, 1859.

42,062. DUFOUR, of 37, Rue de Sèvres, Vaugirard, département de la Seine, for "A machine for moulding bricks."—Dated 3rd September, 1859.

42,063. DUPONT, of Frossay, département de la Loire Inférieure, for "Making grits absorb steam."—Dated 9th September, 1859.

42,064. DUTRAIT, with Ginon, of Rue Bât d'Argent, Lyon, for "Conglomerating and unsulphuring coal, and facilitating its combustion."—Dated 3rd September, 1859.

42,065. FERRY, of 21, Trottoir Stanislas, Nancy, for "A machine for cutting out and stamping medicinal and other pastilles on both sides."—Dated 9th September, 1859.

42,066. FONTENAY, of 1, Rue des Récollets, Grenoble, département de l'Isère, for "A smoke-consuming fire-place with a reversed fire for locomotives, fixed steam engines, furnaces, &c."—Dated 3rd September, 1859.

42,067. GITTON-LEFRANC, of Carrefour Jouaust, Rennes, département d'Ille-et-Vilaine, for "Manufacture of woven merinos of dyed wool."—Dated 11th July, 1859.

42,068. GOSSOT, of Epinac, département de Saône-et-Loire, for "An alembic with compartments for distilling bituminous schist."—Dated 8th September, 1859.

42,069. GUIBAL, of 40, Rue Vivienne, Paris, for "Improvements in the manufacture of caoutchouc articles."—Dated 3rd September, 1859.

42,070. HARINKOUCK and CUVILLIER, of Roubaix, département du Nord, for "A kind of tissue."—Dated 8th September, 1859.

42,071. JOSEPH and MARÉ, of Bogny-sur-Meuse, département des Ardennes, for "Manufacture of bolts by means of presses and a turning machine."—Dated 8th September, 1859.

42,072. LAURENT, of 81, Quai d'Orléans, au Havre, département de la Seine Inférieure, for "A kind of eye-glasses applicable to magnifying instruments, called 'Platoscopic eye-glasses.'"—Dated 5th September, 1859.

42,073. MARTIN and COUTILLAC, of 33, Rue de Lormont, Bordeaux, for "An instantaneous railway break."—Dated 8th September, 1859.

42,074. MAYER, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in pincers for leading packages."—Dated 3rd September, 1859.

42,075. MOISELET, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in machines for making lace, twist, &c."—Dated 2nd September, 1859.

42,076. PAULIN and CHEVALIER, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in manufacturing and ornamenting

* For the French Patent Law see No. 228 of this Journal.

articles of jewellery."— Dated 3rd September, 1859.

42,077. De Préseau, of Ecuelin, département du Nord, for "An apparatus for distributing liquid manure."—Dated 5th September, 1859.

42,078. Prevosté, of Ham, département de la Somme, for "A cylinder-press for sugar works." —Dated 7th September, 1859.

42,079. Richard, of 18, Rue Petit-Paradis, Avignon, for "Protecting iron from oxidation by means of cement."—Dated 3rd September, 1859.

42,080. Salesse, of Oullins, département du Rhône, for "Rendering iron or metal elastic for all kinds of seats and mattresses."—Dated 8th September, 1859.

42,081. Schlenker and Dams, represented by Brandon, of 7, Rue des Moulins, Paris, for "A rotary forge hammer."— Dated 3rd September, 1859.—(American Patent, 29th March, 1859.)

42,082. Touzan, of 38, Avenue de Clichy, Batignolles, département de la Seine, for "Indicating signals for carriages, omnibuses, railway stations, and carriages."—Dated 3rd September, 1859.

42,083. Valla, of Dardilly, département du Rhône, for "Tower-clocks with pneumatic clock-work."— Dated 10th September, 1859.

42,084. Baudin, of 4, Rue des Barreaux, Troyes, département de l'Aube, for "A kind of gloves with widened ruffles."—Dated 12th September, 1859.

42,085. Brade, of 22, Rue Ste. Anne, Paris, for "Improvements in purifying oil and other fat substances."—Dated 5th September, 1859.

42,086, Chemery, of Sedan, département des Ardennes, for "Regulating the course of cloth in gin."—Dated 12th September, 1859.

42,087. Clavières, of 82, Rue Blanche, Paris, for "A steam locomotive with free direction for propelling railway-carriages on tramways on a level with common roads." — Dated 3rd September, 1859.

42,088. Delachaise, of 13, Rue d'Ossaris, Lyon, for "Manufacture of pipes from artificial substances, and apparatus belonging thereto." — Dated 9th September, 1859.

42,089. Doublet, of 172, Rue du Faubourg St. Martin, Paris, for "Applying iron to cast-iron and cast-iron to iron."—Dated 5th September, 1859.

42,090. Duchêne, of Vouziers, département des Ardennes, for "Two safety-bridles."—Dated 12th September, 1859.

42,091. Edwards, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in stacking or holding biscuit, fayence, porcelain and glossed ware for firing."—Dated 5th September, 1859.—(English Patent, 1st March, 1859.)

42,092. Fafeur, Brothers, of Carcassonne, département de l'Aube, for "A system of wine pump."— —Dated 14th September, 1859.

42,093. Gaillard, of St. Pierre-lès-Calais, département du Pas-de-Calais, for "A bar-loom for the manufacture of veils, shawls, &c., and embroidering those articles without seams." — Dated 10th September, 1859.

42,094. Goguelat, of Mestras, département de la Gironde, for "Preserving the pulp of raw tomatoes in tablets and powder, and syrup extracted from said pulp."—Dated 10th September, 1859.

42,095. Graham, represented by Darnis, of 36, Rue de l'Echiquier, Paris, for "A traction-engine."— Dated 5th September, 1859.

42,096. Hamoir, of Saultain, département du Nord, for "A metal nave-box for carriage wheels."— Dated 15th September, 1859.

42,097. Harmegnies, Dumont, and Company, of Anzin, département du Nord, for "Seams of flat cords of flax and aloes."—Dated 15th September, 1859.

42,098. Knowles, of Calais, for "Improvements in the manufacture of iron and steel, and in purifying or refining cast-iron for mouldings."—Dated 10th September, 1859.

42,099. Lamb, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in apparatus for superheating steam."—Dated 5th September, 1859.

42,100. Lebée and Rousseau, of 3, Rue St. Fiacre, Paris, for "A kind of tournure."—Dated 6th September, 1859.

42,101. Mahieu, of Cappelle, département du Nord, for "A machine for sowing seeds and distributing manure-powder."— Dated 15th September, 1859.

42,102. Marceille and Ferret, of Toulouse, département de la Haute-Garonne, for "An iron electric battery."—Dated 12th September, 1859.

42,103. Miramon, of 8, Rue St. Jean Baptiste, St. Etienne, département de la Loire, for "Manufacture of velvet in double pieces on Jacquard looms." —Dated 12th September, 1859.

42,104. Moyon, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A break for omnibuses, carriages, and carts."—Dated 6th September, 1859.

42,105. Nivelle, son, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in sewing machines."—Dated 3rd September, 1859.

42,106. Paulvé, domiciled with Laborde, of 24, Rue du Vieux Colombier, Paris, for "A kind of chaff-cutting machine."—Dated 5th September, 1859.

42,107. Perroncel, of 218, Rue du Faubourg St. Martin, Paris, for "Manufacture of dancing puppets or toys, and small rough models for painters and sculptors from caoutchouc and gutta percha."—Dated 5th September, 1859.

42,108. Pimont, of 55, Rue Impériale, Rouen, for "Means of removing and preventing incrustations of pipes, boilers, and other apparatus."—Dated 12th September, 1859.

42,109. Planche, of Champdieu, département de la Loire, for "A mechanism, called 'Alarum-tin-box."—Dated 12th September, 1859.

42,110. Plassin, of 110, Rue du Faubourg St. Martin, Paris, for "A rotary steam engine worked

by superheated steam."—Dated 5th September, 1859.

42,111. Roper and Need, of St. Pierre-lès-Calais, département du Pas-de-Calais, for "Manufacture of embroidered tulle without seams, by means of machinery."—Dated 3rd September, 1859.

42,112. Serve and Coulouvrat, of Rue des Servettes, Givors, département du Rhône, for "A tool, called 'French bit.'"—Dated 10th September, 1859.

42,113. Tonnier, represented by Bresson, of 57, Rue de Bretagne, Paris, for "A dynamometer for measuring the strength of cloth."—Dated 5th September, 1859.

42,114. Vaudaux, of 21, Rue de Hanovre, Paris, for "A rubbing surface with a base of metal sulphuret, for lighting matches."—Dated 6th September, 1859.

42,115. Vicars, Father and Son, Ashmore and Smith, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of bread, biscuit, ginger-bread, and other similar articles, and also in ovens, kneading-machines, and other apparatus used thereat."—Dated 6th September, 1859.—(English Patent, 13th May, 1859.)

42,116. Ward, represented by Tolhausen, of 35, Boulevart Bonne-Nouvelle, Paris, for "Day and night maritime signals for conveying all kinds of messages."—Dated 6th September, 1859.

42,117, Aubert, represented by Lenormand, of 24, Rue St. Pierre Amelot, Paris, for "A kind of shaving brush."—Dated 7th September, 1859.

42,118. Bassett and Bateman, represented by Yapp, of 6, Rue Montpensier, Paris, for "Improvements in machines for making bolts and rivets."—Dated 6th September, 1859.

42,119. Bauzemont, of 85, Rue du Faubourg St. Honoré, Paris, for "A moveable scouring washing-machine with free beaters."—Dated 8th September, 1859.

42,120. Billiet, sen., of Fruges, département du Pas-de-Calais, for "Applying soft substances to the ends of clay smoking-pipes for preventing them from being worn out."—Dated 14th September, 1859.

42,121. Bloch, of Metz, département de la Moselle, for "A substance being a substitute for fancy silk."

42,122. Brianchon, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Means of ornamenting metals, porcelain, and other surfaces."—Dated 8th September, 1859.

42,123. Collet, Brothers, of 40, Place Impériale, Lyon, for "Improvements in photography."—Dated 12th September, 1859.

42,124. Croutte, of St. Aubin-le-Cauf, département de la Seine Inférieure, for "Improvements in clock work."—Dated 14th September, 1859.

42,125. Daumézon and Deschamps, of Nîmes, for "A design for economizing stuff in the manufacture of poplin."—Dated 13th September, 1859.

42,126. Daux, of 27, Rue du Colisée, Paris, for "A process for manipulating plastic substances and peat."—Dated 8th September, 1859.

42,127. Delondre, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in the manufacture of orchal."—Dated 7th September, 1859.

42,128. Dugdale, of 100, Rue de Courcelles, Batignolles, département de la Seine, for "Improvements in the arrangement of fire-places for heating steam and other boilers."—Dated 9th September, 1859.

42,129. Duveaux, of 3, Rue Reymond, Lyon, for "A machine for embossing and embroidering fabrics."—Dated 13th September, 1859.

42,130. Godchaux, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in reproducing models for writing, &c."—Dated 8th September, 1859.

42,131. Laget, with Amédée Stafford, of 19, Rue St. Savournin, Marseille, for "An apparatus for irrigating by means of atmospheric air and steam."—Dated 10th September, 1859.

42,132. Larne, of 67, Rue St. Jacques, Paris, for "So-called 'Lithophene mastic' for steam and other joints,"—Dated 9th September, 1859.

42,133. Lavril, represented by Thirion, of 95, Boulevart Beaumarchais, Paris, for "A system of assembling pipes."—Dated 9th September, 1859.

42,134. Letillois, of 75, Rue du Temple, Paris, for "A ball-lamp with a pump."—Dated 6th September, 1859.

42,135. Luneau, of 21, Rue Palaprat, Toulouse, département de la Haute-Garonne, for "A copying press."—Dated 16th September, 1859.

42,136. Martin, of 80, Taitbout, Paris, for "A mechanical brush, called 'Clinocome' or 'Clinochete.'"—Dated 9th September, 1859.

42,137. Massenat, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Foot coverings with rivets and nuts."—Dated 9th September, 1859.

42,138. Massot, of 50, Cours Morand, Lyon, for "Spring-mattresses with a variable tension."—Dated 12th September, 1859.

42,139. Matignon, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in sewing machines."—Dated 7th September, 1859.

42,140. Moreau, of 4, Rue du Parc Royal, Paris, for "Special ornaments."—Dated 8th September, 1859.

42,141. Murphy, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of vulcanized compounds of vulcanizable gum."—Dated 9th September, 1859.—(English Patent, 9th August, 1855.)

42,142. Pellisier, of 4, Rue des Ayres, Bordeaux, for "A railway break."—Dated 15th September, 1859.

42,143. Rul, represented by Robyns, of 79, Rue de Vaugirard, Vaugirard, for "A steam apparatus, called 'Meischygene,' for preparing substances for steeping in distilleries, breweries, &c."—Dated 9th September, 1859.

42,144. Seynave, of Roubaix, département du Nord, for "Moveable metal reeds."—Dated 17th September, 1859.

42,145. Slawson, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Constructing cash-boxes."—Dated 7th September, 1859.

42,146. Strong and Ross, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in scales, balances, &c."—Dated 8th September, 1859.

42,147. Suc, of 8, Boulevart du Combat, Belleville, département de la Seine, for "A mixed balance."—Dated 9th September, 1859.

42,148. Tiget, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of large hollow materials of plastic or clay substances for all kinds of constructions, water-pipes, drains, &c."—Dated 7th September, 1859.

42,149. Wood, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in trusses."—Dated 8th September, 1859.—(English Patent, 30th July, 1859.)

42,150. Barret, of St. Bresson, département de la Haute Saône, for "A circular machine for making conical paper tubes for spinning."—Dated 17th September, 1859.

42,151. Bourdin and Serpette, the former of 2, Rue Bonne Louise, the latter of 13, Rue de l'Entrepôt, Nantes, département de la Loire Inférieure, for "Economical and simple casings of pistons in hydraulic presses."—Dated 12th August, 1859.

42,152. Canivet, of 50, Rue des Fossés-Neufs, Lille, for "A safety-lock, with combined eccentrics."—Dated 19th September, 1859.

42,153. Coulon, represented by Michaux. of Valenciennes, département du Nord, for "A steam engine."—Dated 21st September, 1859.

42,154. Donny, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Safety paper."—Dated 12th September, 1859.

42,155. Ermen, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Improvements in machines or apparatus for finishing thread."—Dated 13th September, 1859.

42,156. Fichet, represented by Perpigna, of 42, Rue Neuve St. Augustin, Paris, for "Rendering chests, &c. incombustible."—Dated 13th September, 1859.

42,157. Flécheelle, of 31, Rue Cadet, Paris, for "Hook horse-shoes."—Dated 10th September, 1859.

42,158. Fleming, represented by Courrouve, of 3, Rue de la Bourse, Paris, for "Improvements in candles for the purpose of indicating time."—Dated 12th September, 1859.—(English Patent, 31st August, 1859.)

42,159. Frezouls, of Souilhe, département de l'Aude, for "A plough."—Dated 20th September, 1859.

42,160. Hanon, of 49, Avenue de Clichy, Batignolles, département de la Seine, for "Applying gluten to the treatment of liquids, and especially beer."—Dated 12th September, 1859.

42,161. Harrison, represented by Mathieu, of 45 Rue St. Sébastien, Paris, for "Improvements in the construction of boilers."—Dated 13th September, 1859.—(English Patent, 30th April, 1859.)

42,162. Heindryckx, domiciled Hôtel l'Avocat, Place St. Martin, Lille, département du Nord, for "Railway chairs."—Dated 20th September, 1859.

42,163. Herguez, of 79, Rue de Vendôme, Lyon, for "A toy, called 'Puzzle.'"—Dated 15th September, 1859.

42,164. Herluison, of 61, Rue Malesherbes, Paris for "A match box."—Dated 13th September, 1859.

42,165. Jullion, represented by Brade, of 29, Rue Ste. Anne, Paris, for "Improvements in the manufacture of gelatine."—Dated 10th September, 1859.

42,166. Langlard and Hector, of Sarralbe, département de la Moselle, for "Trimming straw hats."—Dated 17th September, 1859.

42,167. Langlard and Hector, of Sarralbe, département de la Moselle, for "Improvements in the manufacture of cranked axles of steam-engines and other cranks."—Dated 12th September, 1859.—(English Patent, 7th February, 1859.)

42,168. Leterre, of St. Quentin, département de l'Aisne, for "An apparatus for preventing the effluvia of sewers."—Dated 20th September, 1859.

42,169. Marie, of 10, Rue St. Ferdinand, Ternes, département de la Seine, for "A machine for mowing or harvesting."—Dated 10th September, 1859.

42,170. Mennet, Possoz, David, and Troullier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A kind of petticoat."—Dated 10th September, 1859.

42,171. Meyrac, of Dax, département des Landes, for "Manufacture of bituminous mastic."—Dated 12th September, 1859.

42,172. Oulman, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Improvements in the manufacture of porte-monnaies, cigar-cases, and similar articles of leather."—Dated 12th September, 1859.

42,173. Parfitt, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "A machine for stamping the heads of bolts, rivets, screws, and other similar objects."—Dated 10th September, 1859.

42,174. Pelletier, Coulon, and Doulceron, represented by Michaux, of Valenciennes, département du Nord, for "A continuous lubricating cock."—Dated 21st September, 1859.

42,175. Périchon, jun., domiciled with Périchon, of 27, Rue de la Madeleine, Paris, for "A desk for pianofortes."—Dated 12th September, 1859.

42,176. Kay (Richard Dugdale), of Mulhouse, département du Haut-Rhin, for "Applying steam to tissues and thread of dyed cotton."—Dated 16th September, 1859.

42,177. Rondeau, of St. Jean-aux-Bois, département des Ardennes, for "A thrashing machine."—Dated 19th September, 1859.

42,178. Sonolet, of 46, Rue Jacob, Paris, for "A system of clack-valves, valves, shuttles, cocks, &c." —Dated 13th September, 1859.

42,179. Talbot, sen. and jun., of Caen, for "A machine for digging."—Dated 22nd September, 1859.

42,180. Thibaut de Ménonville, of Rambervillers, département des Vosges, for "A machine for drying fecula."—Dated 19th September, 1859.

42,181. Thibaut de Ménonville, of Rambervillers, département des Vosges, for "A machine for washing fecula."—Dated 19th September, 1859.

42,182. Berton, of Noisy-le-Sec, département de la Seine, for "A machine for utilizing centrifugal power."—Dated 13th September, 1859.

42,183. Cart, of 13, Rue de Reuilly, Paris, for "A moveable cylinder saw-mill."—Dated 14th September, 1859.

42,184. Casentini, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "A composition, called 'Hydroboron,' to be used in the manufacture of objects of plaster and other similar substances." —Dated 15th September, 1859.

42,185. Castell, represented by Yapp, of 6, Rue Montpensier, Paris, for "Improvements in purifying and treating gutta percha."—Dated 15th September, 1859.—(English Patent, 17th February, 1859.)

42,186. Chabert, jun., Carré, and Debourge, of 33, Rue des Jeûneurs, for "A kind of tissue."—Dated 15th September, 1859.

42,187. Chazelle, of 16, Rue Dauphine, Paris, for "A press for printing copper plates."—Dated 15th September, 1859.

42,188. Daniel, of 52, Rue Neuve St. Augustin Paris, for "A mode of guillosheeing and engraving colours, gilding, silvering, platinizing, and porcelain of enamelled crystal and baked clay."—Dated 15th September, 1859.

42,189. David, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "A machine for converting or conglomerating ores, pyrites, small coal or coke, into hollow or solid balls."—Dated 16th September, 1859.

42,190. Dupuy, represented by Ricordeau, of 23 Boulevart de Strasbourg, Paris, for "A chromolithographic press, with a double action."—Dated 15th September, 1859.

42,191. Engler and Krauss, represented by Guion, of 29, Boulevart St. Martin, Paris, for "A system of insulating telegraph wires."—Dated 15th September, 1859.

42,192. Evans, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in tubular steam-boilers, and in furnaces or fire-places applied thereto."—Dated 13th September, 1859.—(English Patent, 20th November, 1858.)

42,193. Gasné, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in shearing machines."—Dated 15th September, 1859.

42,194. Héroz, of 13, Rue St. Dominique, Paris, for "Manufacture of leather foot-coverings."—Dated 16th September, 1859.

42,195. Lhullier, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Manufacture of buttons with holes, &c."—Dated 15th September, 1859.

42,196. Litteau, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in the manufacture of buttons."—Dated 15th September, 1859.

42,197. Mallion, domiciled with Fillion, of 5, Rue Neuve, Lyon, for "A machine for making chenille."—Dated 28th July, 1859.

42,198. Marie, represented by Herpst, of 39, Rue de l'Echiquier, Paris, for "Improvements in apparatus for raising liquids by means of atmospheric pressure."—Dated 15th September, 1859.

42,199. Marly, of 43, Rue de Calais, Belleville, département de la Seine, for "Bleaching straw hats and all kinds of straw."—Dated 16th September, 1859.

42,200. Mézy, domiciled of Rue St. Honoré, Hôtel des Empereurs, Paris, for "Manufacture of leather, and applying the same to wigs."—Dated 13th September, 1859.

42,201. Mushet, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in metal alloys."—Dated 14th September, 1859.—(English Patent, 18th March, 1858.)

42,202. Mushet, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast steel."—Dated 14th September, 1859.—(English Patent, 18th March, 1859.)

42,203. Mushet, represented by Kirkpatrick, of 11, Rue Martel, Paris, for "Improvements in the manufacture of cast steel."—Dated 14th September, 1859.—(English Patent, 19th March, 1859.)

42,204. Nivière, of 40, Rue du Bac, Paris, for "Objects for encampments, bed-tents, kitchen-tents."—Dated 15th September, 1859.

42,205. Oppenheimer, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in metal pens and penholders."—Dated 14th September, 1859.

42,206. Ouvré, represented by Amouroux, of 333, Rue St. Martin, Paris, for "An apparatus for counting thread."—Dated 13th September, 1859.

42,207. Passedoit, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "An evaporating apparatus applicable as a smoke-box or back-fire in moveable engines."—Dated 13th September, 1859.

42,208. Pelletier, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in syphon inkstands."—Dated 13th September, 1859.

42,209. Renard, domiciled with Luet, of 8, Cour des Petites-Ecuries, Paris, for "A throstle frame." —Dated 13th September, 1859.

42,210. Roger and Lédion, domiciled of 9, Rue Rameau, Paris, for "Plastic straw of collodion."—Dated 15th September, 1859.

42,211. Rossignol, of 34, Rue Sedaine, Paris, for "A machine for drying fabrics."—Dated 14th September, 1859.

42,212. Sibon and Marie, represented by Barrault, of 53, Boulevart St. Martin, Paris, for "Means and apparatus for cooling substances, and especially liquids."—Dated 13th September, 1859.

42,213. Tisserant, of 53, Rue au Maire, Paris, for "A waterproof coating."—Dated 14th September, 1859.

42,214. Viney, Sommer, and Hamm, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in cigar-cases."— Dated 16th September, 1859.

42,215. Belvallette, Brothers, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "A mode of mounting carriages"— Dated 19th September, 1859.

42,216. Blatter, of 10, Rue de Faubourg St. Denis, Paris, for "A paper-weight with a calendar and meridian."—Dated 17th September, 1859.

42,217. Bocuze, of 20, Rue Tupin, Lyon, for "A direct mode of charging rods about to be gilded or silvered by means of electro-chemical processes."—Dated 20th September, 1859.

42,218. Chevrier and Autier, the former of 21, Rue du Faubourg Montmartre, Paris, the latter domiciled with Prilleux, of 24, Cité Trévise, Paris, for "Disinfecting natural and other smells or savour"—Dated 20th September, 1859.

42,219. Colombi, son, of 57, Quai des Grands-Augustins, Paris, for "A micrometer."—Dated 19th September, 1859.

42,220. Delisle, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Improvements in apparatus for preparing gaseous liquids."—Dated 17th September, 1859.

42,221. Dony, with Renoir and Co., of 15, Rue Vendôme, Paris, for "Improvements in the manufacture of chlorine."— Dated 20th September, 1859.

42,222. Durel, of 30, Rue des Vertus, La Villette, département de la Seine, for "Mounting wooden shoes."—Dated 17th September, 1859.

42,223. Gingembre and Damiron, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "Hooks sewn on ribbons by means of machines."—Dated 17th September, 1859.

42,224. Godefroy, of 5, Rue de Florence, Rouen, for "Converting the plant rameh into white textile filaments."—Dated 17th September, 1859.

42,225. Jouannin and Co., represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in locks."—Dated 16th September, 1859.

42,226. Laneuville, of 1, Rue de Constantine, Paris, for "A chemical product, called 'Carboazotine.'"—Dated 17th September, 1859.

42,227. Lucot, of 4, Rue de Lyon, Passage Moulin, Paris, for "A composition of a kind of stones."—Dated 19th September, 1859.

42,228. Macors and Coolen, of 10, Place Louis-Seize, Lyon, for "Preserving mustard-flour."—Dated 20th September, 1859.

42,229. Malligand, of 45, Avenue de Clichy, Batignolles, département de la Seine, for "So-called 'Semiramis spring-mattresses.'"— Dated 17th September, 1859.

42,230. Manchon, of 8, Rue des Enfants-Rouges, Paris, for "An inalterable rubbing surface for lighting matches."—Dated 17th September, 1859.

42,231. Morton and Howden, represented by Mathieu, of 45, Rue St. Sébastien, Paris, for "Improvements in apparatus for obtaining and regulating motive power."—Dated 19th September, 1859.—(English Patent, 19th March, 1859.)

42,232. Noblet and Thibouville, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Improvements in tools used in the manufacture of certain parts of wind instruments."—Dated 17th September, 1859.

42,233. Nottelet, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A metrical counter or regulator of spinning machines."—Dated 19th September, 1859.

42,234. Payerne, Godier, and Le Marquand, the two former, of 17, Rue Neuve-des-Mathurins, the latter, of 79, Rue de Seine, Paris, for "A so-called 'Hydrostatic apparatus.'"—Dated 17th September, 1859.

42,235. Philippe, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An alarum tinder-box."—Dated 17th September, 1859.

42,236. Pion, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "A clasp for portemonnaies, pocket-books, &c."— Dated 19th September, 1859.

42,237. Quennesson, of Monbreham, département de l'Aisne, for "Bands of gauze-dimity with satin plaits and bands of gauze-jaconet with common plaits."—Dated 22nd September, 1859.

42,238. Roger, of 31, Rue Neuve de la Pelouze, Passy, département de la Seine, for "A kind of toy balloons.—Dated 17th September, 1859.

42,239. Ruin, of 3, Rue St. Laurent, Belleville, département de la Seine, for "A machine for cutting wooden teeth of gearings."—Dated 19th September, 1859.

42,240. Sanglier, of 3, Rue Babille, Paris, for "Improvements in the manufacture of horses' collars."—Dated 16th September, 1859.

42,241. Henry Schlose and Brother, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in portemonnaies and other leather articles closed by means of an elastic thong."—Dated 19th September, 1859.

42,242. Tisserant, of St. Mihiel, département de la Meuse, for "A pneumatic motor with free pressure."—Dated 20th September, 1859.

42,243. Trémiot, of 16, Boulevart de Clichy, Montmartre, département de la Seine, for "Ornamental portraits."—Dated 19th September, 1859.

42,244. Truss, represented by Sautter, of 14, Boulevart Montmartre, Paris, for "Improvements in the manufacture of pipes, and in the mode of assembling the same."— Dated 17th September, 1859.—(English Patent, 21st April, 1859.)

42,245. Villet, of 133, Rue de Sèvres, Paris, for "Improvements in setting type."—Dated 19th September, 1859.

42,246. Wright, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Improvements in the manufacture of iron and steel wire, with

circular sections, and in metal wire with other sections, and of great length."—Dated 19th September 1859.—(English Patent, 14th February, 1859.)

42,247. ANGLADE, of Perpignan, for "A machine for extending the use of gravity in a solid shape." Dated 7th September, 1859.

42,248. BIRD, represented by Zacharie, of 40, Rue de Bourbon, Lyon, for "Improvements in castors."—Dated 21st September, 1859.—(English Patent, 26th August, 1859.)

42,249. BONNARD, of Sorgues, département du Vaucluse, for "A direct fire apparatus for boiling straw for the manufacture of paper."—Dated 24th September, 1859.

42,250. BORDAS, of Périgneux, département du Dordogne, for "A rustic garden pianoforte."—Dated 8th September, 1859.

42,251. CAVALERIE, of 23, Rue Constantine, Bordeaux, for "A motor applicable to all kinds of engines."—Dated 27th September, 1859.

42,252. DAVID, of 44, Rue des Pincettes, au Havre, département de la Seine Inférieure, for "A compressing machine."—Dated 24th September, 1859.

42,253. DERRIEY, of 21, Chemin de Ronde de Ménilmontant, Paris, for "A drill tool with a circular movement."—Dated 21st September, 1859.

42,254. DESCAMPS, of Anzin, département du Nord, for "Applying a fixed grate with moveable bars to all kinds of fire-places, and for simultaneously closing the flues by closing the door of the fire-place."—Dated 26th September, 1859.

42,255. DORBON-DELVAUX, of Thin-le-Montier, département des Ardennes, for "A semi-mechanical loom for obtaining merinos and other similar fabrics."—Dated 26th September, 1859.

42,256. DRAGUE, of 5, Rue Garnier, Neuilly, département de la Seine, for "A shape of tiles."—Dated 21st September, 1859.

42,257. DUCHAMP, jun., of 17, Rue du Commerce, Lyon, for "A syphon for gaseous liquids."—Dated 23rd September, 1859.

42,258. GANTILLON, represented by Tony Carret, of 60, Rue St. Louis, au Marais, Paris, for "A woollen felt roller for finishing and cylindering silk handkerchiefs."—Dated 19th September, 1859.

42,259. GARREL, of 58, Rue Charlemagne, Lyon, for "An apparatus for polishing silk fabrics."—Dated 26th September, 1859.

42,260. GIZON, of 21, Rue de la Poulaillerie, Lyon, for "A machine for making zephyr-gauze."—Dated 26th September, 1859.

42,261. GUESNON, of 8, Rue l'Ecu, St. Laurent, Orléans, for "An apparatus for mixing corn and flour."—Dated 26th September, 1859.

42,262. DE JOUFFROY, of Abbans-Dessous, département du Doubs, for "A breech-loading rocking musket,"—Dated 22nd September, 1859.

42,263. LACROIX, of Entre-Deux-Guiers, département de l'Isère, for "A system of bolts for French windows."—Dated 27th September, 1859.

42,264. LAGOSSE and QUENTIN, of Montgon, département des Ardennes, for "Improvements in the manufacture of paper, card-paper and pasteboard."—Dated 24th September, 1859.

42,265. LAMBERT, jun., of Argentan, département de l'Orne, for "A thrashing machine with a horse gin worked by one horse."—Dated 21st September, 1859.

42,266. LAVERGNE, of 5, Rue du Champ de Mars, Bordeaux, for "A machine for making paper bags with double bottoms."—Dated 28th September, 1859.

42,267. LIMAU, of 12, Rue Marengo, Bordeaux, for "Stoppering bottles, applicable to all kinds of vessels."—Dated 26th September, 1859.

42,268. MAIRE and WALLÉE, of 11, Terrasse des Carmélites, Tours, for "Using water and steam as auxiliary fuel."—Dated 20th September, 1859.

42,269. MANTRANT and CAHUG, of 28, Rue Bouquière, Bordeaux, for "A system of pidgeon-holes for bottles."—Dated 22nd September, 1859.

42,270. MIGON, of 267, Rue St. Honoré, Paris, for "Nutritious leguminous baths."—Dated 19th September, 1859.

42,271. MONTAGNE, of Section d'Esquermes, Lille, for "A machine for ironing linen."—Dated 29th September, 1859.

42,272. RONDEL, of 11, Rue de Provence, Paris, for "Torrefying coffee."—Dated 21st September, 1859.

42,273. THÉMÉ, of Villers-Vicomte, département de l'Oise, for "A tacheostrophe machine for twisting thread for tissues."—Dated 20th September, 1859.

42,274. WALLENTIN, of 25, Rue Thomassin, Lyon, for "Impervious seamless hats, covered with cloth or any other stuff."—Dated 21st September, 1859.

42,275. VANDENBERGH, of 33, Rue de l'Arsenal, Toulon, for "A chronometric clock."—Dated 23rd September, 1859.

42,276. VANDEN HIELAKKER, represented by Fringant, of 10, Rue de Provence, Paris, for "A system of marking points at billiard games."—Dated 21st September, 1859.

42,277. VANTER-SPEETEN and DECUESTER, represented by Frigant, of 10, Rue de Provence, Paris, for "Improvements in machines for reading cards in steam weaving."—Dated 21st September, 1859.

42,278. ARRAULT, of 11, Rue de l'Empereur, Montmartre, département de la Seine, for "Applying chemical products to the manufacture of rouge."—Dated 26th September, 1859.

42,279. BERGER, of 55, Rue Rambuteau, Paris, for "A system of chains."—Dated 22nd September, 1859.

42,280. CHEVILLARD, domiciled of 19, Rue Jessaint, La Chapelle St. Denis, département de la Seine, for "Improvement in railway-disks."—Dated 22nd September, 1859.

42,281. CHMIELOWSKI, of 24, Rue Lemercier, Batignolles, département de la Seine, for "Wheels with elastic springs applicable to all kinds of carriages, and revolving with the axle."—Dated 26th September, 1859.

42,282. COURTOIS, of Sauville, département des Vosges, for "A cylindrical system applicable to

the oscillating movement of bells."—Dated 28th September, 1859.

42,283. Dieulafait, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Manufacture of boxes or paper cases for keeping muffs."—Dated 21st September, 1859.

42,284. Dieulafait, represented by Le Blanc, of 2, Rue Ste. Appoline, Paris, for "Mounting muffs."—Dated 21st September, 1859.

42,285. Dreyfus-Werth, represented by Sautter, of 14, Boulevart de Strasbourg, Paris, for "Improvements in the manufacture of light tissues."—Dated 24th September, 1859.

42,286. Durand and Pradel, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "Improvements in Jacquart machines." — Dated 21st September, 1859.

42,287. Fields, represented by Brandon, of 7, Rue des Moulins, Paris, for "Improvements in railway buffers, applicable to other purposes."—Dated 21st September, 1859.—(English Patent, 22nd March, 1859.)

42,288. Fleury, represented by Ricordeau, of 23, Boulevart de Strasbourg, Paris, for "An expansive toy-pistol."—Dated 21st September, 1859.

42,289. James, represented by Brandon, of 7, Rue des Moulins, Paris, for "Improvements in projectiles of rifle-guns." — Dated 21st September, 1859.

42,290. Jesson, represented by Claës, of 23, Boulevart de Strasbourg, Paris, for "A little trinket flacon."—Dated 22nd September, 1859.

42,291. Lafont, of Alais, département du Gard, for "A shape of tiles."—Dated 28th September, 1859.

42,292. Lambert, of 9, Rue St. Louis, and 3, Impasse St. Louis, Batignolles, département de la Seine, for "An hygienic apparatus for ladies."—Dated 23rd September, 1859.

42,293. Lebel, represented by Claës, of 23, Boulevart de Strasbourg, Paris, for "Calorifere footcoverings."—Dated 24th September, 1859.

42,294. Lilliendahl, represented by Yapp, of 6, Rue Montpensier, Paris, for "Obtaining nightsignals by means of fire-works." — Dated 24th September, 1859.

42,295. Lorrain-Durafour, of 48, Rue de la Charité, Lyon, for "Applying any motor to machines for stamping and coining medals."—Dated 28th September, 1859.

42,296. De Malbec, of 34, Rue d'Angoulême du Temple, Paris, for "A continuous apparatus for lubricating."—Dated 22nd September, 1859.

42,297. Marceille and Ferret, of Pont-des-Demoiselles, Toulouse, for "A machine, called 'Electro-motive rack-clock.'"—Dated 27th September, 1859.

42,298. Martin-Saint-Martin, of 20, Cité Trévise, Paris, for "Improvements in fire-arms."—Dated 24th September, 1859.

42,299. Meuley, of 13, Rue Cadet, Paris, for "An apparatus for winding up clocks."—Dated 26th September, 1859.

42,300. Naylor, represented by Brade, of 29, Rue Ste. Anne, Paris, for "An apparatus for measuring and registering distances travelled over."— Dated 26th September, 1859. — (English Patent, 26th March, 1859.)

42,301. Parfitt, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "A maritime apparatus for registering the speed of vessels and currents."—Dated 22nd September, 1859.

42,302. Pinchbeck, represented by Brandon, of 7, Rue des Moulins, Paris, for "Improvements in gasmeters."—Dated 21st September, 1859.

42,303. Renard, represented by Guion, of 29, Boulevart St. Martin, Paris, for "Various modes of applying mica."—Dated 21st September, 1859.

42,304. Reysz, represented by D'Aubréville, of 60, Boulevart de Strasbourg, Paris, for "A mandrel with a concentric pressure for lathes, mortising machines, filing machines, &c." — Dated 22nd September, 1859.

42,304. Rochette and Léotar, represented by Bresson, of 57, Rue de Bretagne, Paris, for "Moderator gas-burners."—Dated 23rd September, 1859.

42,306. Smith, represented by Yapp, of 6, Rue Montpensier, Paris, for "Improvements in the manufacture of bungs, and in fitting the same into casks and other vessels containing liquids."—Dated 24th September, 1859.—(English Patent, 1st January, 1859.)

42,307. Van Ackère, represented by Dreyfous, of 54, Rue de Bondy, Paris, for "Preserving travellers in all kinds of carriages from accidents."—Dated 22nd September, 1859.

42,308. Winter, represented by Barrault, of 33, Boulevart St. Martin, Paris, for "An apparatus or machine for weighing or raising filled sacks and other powdery substances."—Dated 24th September, 1859. — (English Patent, 15th September, 1859.)

42,309. Yapp, of 6, Rue Montpensier, Paris, for "Improvements in mixing oil of tar, coal, &c., and rendering them odoriferous."—Dated 24th September, 1859.

Certificates of Addition.

40,249. Alexandre, for "A grate for fire-places." —Dated 24th August, 1859.

38,639. Babonneau, for "A motor." — Dated 20th August, 1859.

38,416. Bertinchamp, for "Sounding."—Dated 22nd August, 1859.

33,968. Boiret for "A stamp."—Dated 22nd August, 1859.

31,745. Bosredon, for "Ornaments."—Dated 20th August, 1859.

40,803. Boulanger, for "Petticoats."—Dated 26th August, 1859.

40,838. Chéradame, for "Salvage."—Dated 18th August, 1859.

38,426. Copcutt, for "Gas."—Dated 25th August, 1859.

40,195. Depoilly, for "A lock."—Dated 19th August, 1859.

28,920. Doelling, for "A wire-gauge" — Dated 26th August, 1859.

37,190. Dromart, for "Distilling."— Dated 26th August, 1859.

37,575. Figuera and Comp., for "Fecal matter."— Dated 20th August, 1859.

39,267. Gaussel, for "Wool."—Dated 17th August, 1859.

37,973. Gérard, for "A horse-gin."—Dated 24th August, 1859.

37,776. Giacobbi, for "A controlling apparatus."— Dated 18th August, 1859.

37,609. Gondenove and Féret, for "Closing."— Dated 19th August, 1859.

39,109. Grenier, for "Waterproofing." — Dated 25th August, 1859.

39,046. Jouannin and Comp., for "A machine for making fishing nets."—Dated 9th August, 1859.

41,242. Jucqueau, for "Signals." — Dated 25th August, 1859.

21,326. Labrosse, for "A coating."—Dated 23rd August, 1859.

41,341. Lahaut, for "Vinegar."—Dated 22nd August, 1859.

37,748. Lamblin, for "A clock." — Dated 20th August, 1859.

40,566. Lavergne, for "A press." — Dated 24th August, 1859.

33,359. Lecoeur, for "Spinning." — Dated 25th August, 1859.

35,252. Lemoine-Brabant, for "Spinning." — Dated 25th August, 1859.

36,910. Lhôte, for "Seltzer water."—Dated 19th August, 1859.

27,940. Liebermann, for "Fecula."— Dated 23rd August, 1859.

41,313. Lombard, for "Fuel." — Dated 1st September, 1859.

38,439. Mallet, for "Oil."— Dated 18th August, 1859.

41,847. Maumené, for "Potash." — Dated 31st August, 1859.

40,437. Monnet and Dury, for "A colouring substance."—Dated 23rd August, 1859.

38,079. Poitenin, for "Tricot." — Dated 22nd August, 1859.

40,989. Prénillieu, for "A stay." — Dated 17th August, 1859.

39,249. Royet jun., for "Fire-arms,"—Dated 26th August, 1859.

41,192. Schinz, for "A glass furnace."—Dated 22nd August, 1859.

34,157. Steinmetz, for "Closing."—Dated 20th August, 1859.

35,233. Thierry, jun., for "A smoke consuming apparatus."—Dated 22nd August, 1859.

39,696. Verière, for "A pump." — Dated 29th August, 1859.

41,890. Vinet, for "A mowing machine."—Dated 25th August, 1859.

39,989. Achet, for "A break."—Dated 9th September, 1859.

39,409. Barry, for "Oil."—Dated 30th August 1859.

39,477. Bierlein, for "A twyer."—Dated 5th September, 1859.

40,681. Caron, for "Fire-arms."—Dated 31st August, 1859.

41,169. Charbonnier, for "Sparkling wine." — Dated 9th September, 1859.

41,960. Chauve, for "Dresses."—Dated 7th September, 1859.

38,032. Cordier, for "A toy wind-instrument."— Dated 29th August, 1859.

38,582. Corne, for "Manure."—Dated 30th August, 1859.

38,582. Corne, for "Manure."— Dated 5th September, 1859.

39,799. Cornély, for "Resin."— Dated 1st September, 1859.

38,551. Cresson, for "Heating." — Dated 14th September, 1859.

40,426. Duinat, for "Plush."—Dated 3rd September, 1859.

39,672. Escourbé, for "Gloves." — Dated 30th August, 1859.

12,685. Favre, for "Weaving."—Dated 31st August, 1859.

40,975. Gaudier and Marchand, for "A registering apparatus."—Dated 1st September, 1859.

37,943. Gely, for "A Greek bonnet."—Dated 1st September, 1859.

38,202. Gire, for "Cocks." — Dated 31st August, 1859.

40,689. Gouzé, for "Destroying bugs." — Dated 8th September, 1859.

37,616. Hammond, for "Dolls"—Dated 2nd September, 1859.

31,295. Joy and Holt, for "An hydraulic machine."—Dated 10th September, 1859.

37,328. The Alliance Company, for "Electricity."—Dated 3rd September, 1859.

37,881. Lambert, for "Thrashing." — Dated 3rd September, 1859.

40,914. Larchevéque, for "A hook." — Dated 5th September, 1859.

41,052. Leblanc, for "Rings." — Dated 29th August, 1859.

40,755. Leterme, for "A flutina." — Dated 8th September, 1859.

25,046. Manceaux, for "Fire-arms."—Dated 3rd September, 1859.

41,601. Maury, for "Sausages." — Dated 6th September, 1859.

37,544. Michel, for "A break."—Dated 8th September, 1859.

32,507. Nogent and Motte, for "Selvage."— Dated 5th September, 1859.

35,418. Peltier, for "Boxes for preserved food."— Dated 2nd September, 1859.

29,033. PICHOT, for "Tissue-paper."—Dated 3rd September, 1859.

36,626. PIMONT, for "Anti-caloric envelopes."—Dated 9th September, 1859.

33,657. PROUVOST, for "A motor."—Dated 7th September, 1859.

39,248. RIVIÈRE, for "A spindle." — Dated 31st August, 1859.

37,985. ROBINOT, for "A mechanical toy."—Dated 3rd September, 1859.

39,024. SANDOZ, for "A stereoscope."—Dated 5th September, 1859.

40,412. VILLARD, for "Garden seats."—Dated 31st August, 1859.

37,957. VODOZ, for "Lamp-glasses."—Dated 3rd September, 1859.

33,499. WALCH, for "Printing fabrics." — Dated 7th September, 1859.

UNITED STATES OF AMERICA.

(Communicated by the Commissioner of Patents.)

LIST of PATENTS, with Claims annexed, issued from the United States Patent Office, for the week ending 6th December, 1859, and each bearing that date.

No. 26,330. G. M. ATHERTON, of Friendsville, Ill., for an "Improvement in hub-boring and mortising machines."

"What I claim is, the arrangement of two pawls S, S^1, with spring rods P, P^1, and arms V, V, projecting from the reciprocating gate L, for operating the same, in combination with lever M, for relieving either one or both pawls from racks T, T^1, the whole being arranged and combined for the purpose of moving the carriage with the hub up to the mortising tool, as set forth."

No. 26,331. WILSON AGER, of Rohrsburgh, Pa., assignor to Thomas J. Wolf and P. J. Jordan, of Philadelphia, Pa., for an "Improvement in machines for cleaning rice."

"I claim, 1st, giving the grain a positive outward motion from under the pressing wings by the clearer *k*, or its equivalent, situated and operating substantially as set forth. 2nd, the adjustable leaves *l* upon the wings for aiding the upward movement of the grain."

No. 26,332. C. P. BUCKINGHAM, of Mount Vernon, O., for an "Improvement in grinding mills."

"I claim, 1st, the improved method of securing the spindle to the runner stone of a grinding mill, by combining the flanch *m* at the end of the spindle I, and the ring N, attached to the metal cap *o* of the runner C^1, said ring being provided with projections *n*, which shall permit a rocking motion of the stone upon the spindle, and a key *p*, or its equivalent, substantially as and for the purposes set forth. 2d, the use in connection with the bedstone B, of the elastic bars *h*, for the purpose set forth."

No. 26,330. B. N. BURKE, of Buffalo, N. Y., for an "Improvement in steam boilers."

"I claim the employment in combination with flues arranged substantially as described of draft distributors E, E, applied and furnished with apertures of varying size, substantially as herein specified."

No. 26,334. B. F. CAMPBELL, of Roxbury, Mass., for an "Improvement in steam boilers."

"I claim in the within described boiler the combination of the exterior water chamber A and interior water chamber B, the interposed smoke flue C, and the basin F, the whole arranged to operate substantially as and for the purposes set forth."

No. 26,335. C. CARTER, of Franklin, Iowa, for an "Improved washing machine."

"I claim the inclined wash board C, fitted between ways or guides *b*, *b*, which have a sliding or reciprocating rubber frame F, fitted on them by being hinged to slides D, D, the above parts being fitted within a suitable box or suds receptacle A, and arranged to operate as and for the purpose set forth. I further claim the arrangement of the rubbers G, H, fitted within the hinged reciprocating frame F, and used in connection with the inclined wash board C, for the purpose specified."

No. 25,336. EDWIN CLARK, of Windsor, Vt., for an "Improvement in sewing machines."

"I claim the combination of a bar G, which has its front end or needle *a*, controlled by a double fulcrum guide *d*, so as to describe an ellipse, and its rear end attached to a rotating disk or crank pin, with a perforating needle *n*, as herein shown and described."

No. 26,337. JOHN W. COCHRAN, of New York, N. Y., for an "Improvement in projectiles for rifled ordnance."

"I claim fitting a projectile with a hollow case jacket or band containing gunpowder or other explosive material, which when ignited by the firing of the charge of the gun, will, by its explosion, cause the said case, jacket, or band to be expanded toward the bore of the gun, and to be compressed around the projectile, substantially as and for the purposes herein set forth. And, in combination with an expanding case, jacket, or band applied to a projectile, I claim the use of an outer covering of wire cloth, to constitute a packing, substantially as and for the purpose herein specified."

No. 26,338. WM. COGSWELL and IRA COGSWELL, jr., of Ottawa, Ill., for an "Improvement in harvesters."

"We claim the combination of the shifting pinion I, with the eccentric axle D, and adjusting frame E, substantially as herein shown, so that by turning the said axle, the pinion I will be thrown into gear with either of the concentric wheels C, H, or out of gear with both, as desired, and so that the hight or the main frame may be readily adjusted, to correspond with the adjustment given the axle D and pinion I, as set forth."

No. 26,339. JAMES P. COLLINS, of Troy, N. Y., for an "Improved water wheel."

"I claim, 1st, the arrangement of the lighter plate L, in the particular manner specified, and for the purpose set forth. 2nd, the arrangement in the particular manner specified, of the packing ring *i*, for the purpose set forth. 3rd, the arrangement in the particular manner specified of the lip or projecting piece *e*, of the buckets, for the purpose set forth. 4th, the arrangement in the particular manner specified, of the regulating plate J, in combination with the peculiar specified device for operating it, for the purpose set forth. 5th, the employment or use of the dividing strip or annular ring inserted in the buckets, substantially as and for the purpose set forth. 6th, the employment for united use in one wheel, of the lighter plate B, packing ring *i*, projecting lips or flanches *e*, gauge or regulating plate J, and annular dividing plate A, the whole being constructed, arranged, and operating in the manner and for the purpose set forth."

No. 26,340. JOHN COOPER, of Mount Vernon, O., for an "Improvement in oil boxes of vertical sugar mills."

"I claim the concentric cups H and I, upon the upper sides of the heads C, C^1, the same being furnished with the openings *e* and *o*, for the conveyance of the oil from the upper box to the stationary cup J, which surrounds the shaft upon the lower bed plate K, in combination with the cups J, substantially as described for the purpose herein set forth."

No. 26,341. Thos. P. Costello, of Buffalo, N. Y., for an "Improvement in skate fastenings."

"I claim a boot, with sockets sunk therein as described, and upright bolts welded to a steel blade or skate runner, both being made and arranged as shown and described, and attached to each other, for the purpose specified."

No. 26,342. E. G. Cushing, of Dryden, N. Y., for an "Improvement in horizontal water wheels."

"I claim the combination of the tubes (*b*), with the bolts (*c*), and buckets D, the whole being constructed and arranged, as and for the purpose herein shown and described."

No. 26,343. G. W. R. Bayley, of Brashear, La., for an "Improvement in hook-headed spikes."

"I claim the improved railroad spike, having the sides and front of its head beveled downwards and inwards, but convex, and having the peculiar projecting lip or hook behind, for facilitating its easy withdrawl, as a new article of manufacture."

No. 26,344. Charles G. Burke, of Utica, N. Y., for an "Improvement in melodeons."

"I claim fitting a melodeon, or other reed instrument of the same class, with a series of swell valves D, so applied as to be capable of being operated by the keys in playing, substantially as herein described, for the purpose of giving expression to any note, independently of the preceding or succeeding ones, or of the other notes of a chord. And I also claim the employment of a stop H, applied and operating, substantially as described, in combination with the keys and the swell valves, for the purpose herein set forth."

No. 26,345. Jacob Dickerson, of Sacramento, Cal., for an "Improvement in wind mills."

"I claim the arrangement of the curved iron sections E, sails B, arms D, slides E, hollow drum I, scroll spring H, flexible connecting rods J, and links G, in the manner and for the purpose described."

No. 26,346. Charles W. Dickinson, of Newark, N. J., for an "Improvement in sewing machines."

"I claim the construction of a pendantly swinging, gravitating, self-adjusting pressure pad or stripper X, X, formed with an adjustable slotted end X 2, suspended on an adjusting pin or stud B 3, the said pad having no feed pressure spring, but substantially as described, set forth, and shown."

No. 26,347. Jeptha Dyson, of Fulton, So. Ca., for an "Improvement in carding engines."

"I claim, first, the combination and arrangement of the feed regulating and working cylinder *a*, feeder A, worker *c*, and clearer *b*, substantially in the manner and for the purpose described. 2nd, the combination and arrangement of the feeder A, worker B, cleaning and delivering cylinder C, and main cylinder D, substantially as and for the purpose described. Third, the combination and arrangement of the feed regulating and working cylinder *a*, feeder A, worker *c*, clearer *b*, worker B, clearing and delivering cylinder C, and main cylinder D, substantially in the manner and for the purpose set forth. Fourth, the combination with the features included in the third claim of the stripper E, substantially in the manner and for the purposes set forth."

No. 26,348. A. B. Furbee, of Dresden, Ohio, for an "Improvement in corn cribs."

"I claim the arrangement of the inclined flooring C, with the trunks or boxes D, substantially as and for the purpose set forth. I also claim covering the posts A of the crib with sheet metal *d*, when said posts are used in connection with a crib provided with an inclined flooring C, and trunks or boxes D, as and for the purpose specified."

No. 26,349. Jackson Gorham, of Bairdstown, Geo., for an "Improvement in ploughs."

"I claim the arrangement of the vertical curved standard B, shovel C, curved handle straps D, hooked inclined brace E, and adjustable beam A, as herein shown and described."

No. 26,350. Caleb H. Griffin, of Lynn, Mass., assignor (through mediate assignor) to Walter D. Richards, of same place, for an "Improvement in machinery for cutting leather into soles for boots and shoes."—Ante-dated 6th June, 1859.

"I claim, first, vibrating the knife or knives (L) in the arc of a circle, or a curve approximating thereto, in the manner substantially as set forth. Secondly, I claim the arm (M), stud (*n*) and slot (N), or their equivalent, as combined with the knife or knives (L), for the purpose substantially as described."

No. 26,351. Daniel M. Hall, of Bridgeport, Conn., for an "Improvement in railroad car blinds."

"I claim the employment or use of the flexible blind C, arranged with the rollers *l*, *l*, fitted within the curved grooves *e*, *e*, and applied to the window of a car or other wheel vehicle, so that it may be raised above the sash B and drawn within the roof of the vehicle, substantially as described."

No. 26,352. Alex. Hay, of Philadelphia, Pa., for an "Improvement in the bearings of railroad and other machinery."

"I claim imbedding the bearings of journals, or surrounding the same with india rubber, or other suitable elastic material, so as to cause them to yield in every direction when subjected to strains and thrusts, and readjust themselves upon the pressure being removed, substantially as described."

No. 26,353. George G. Henry, of Mobile, Ala., for an "Improvement in drying wet seed cotton."

"I claim the application of artificial heat to the purpose of drying wet seed cotton, by means of mechanism, substantially as described."

No. 26,354. John Herald and C. B. Tompkins, of Trumansburg, N.Y., for an "Improvement in pitchforks."

"We claim the arrangement of the hollow head A, tines B, passing through the head socket (*b*), handle C, screw D, plugs (*c*) and screw tangs (*d*), as and for the purpose herein shown and described."

No. 26,355. F. E. Hinckley, of Galesburgh, Ill., for an "Improvement in mole plough."

"First, I claim the combination of the clearer or hanging coulter F, and the rotating coulter G, constructed and arranged as described, for conjoint operation. Second, I claim constructing the sword M, of a mole plough, with a hole or bore N through it, of sufficient size and suitable shape to admit at the same time a rod of metal, large enough to raise and lower the point of the mole, and also to admit the air to pass free into the drain through the sword and mole, as described. Third, I claim expanding and contracting the mole of a mole plough, substantially as and for the purpose described, or by any other mechanical means. Fourth, I claim constructing the mole of a mole plow in sections, consisting of two sides and a top hinged to a head block, and operated by a wedge, as described. Fifth, I am aware that packing wheels have been used to press the earth vertically, and also, that they have been made concave, for the purpose of closing the sword cut. I do not claim this construction, but I do claim two revolving cutters with plain outsides, and conoidal insides, which may be placed upon a common axle, and adjusted to the beam in such a manner as to be forced to cut into the ground and press the earth laterally into the sword cut, and firmly close it up, substantially as described."

No. 26,356. Truman J. Homer, of St. Louis, Mo., for a "Portable collection box."

"I claim the whole box as original as a portable collection box in the peculiar arrangement of its component parts of glass, wood, and metal, and desire to secure the same by Letters Patent. I particularly claim the money inlet as original, it being in the shape of a box without a bottom, through the top of which is inserted a narrow flat tube, and between it and the sides of the box are two ranges of disks, which disks close the aperture of the tube when the box is inverted."

No. 26,357. Sheldon A. Hotchkiss, of New Haven, Conn., for an "Improvement in machine for raising weights."

"I claim the zone J and the screw drum, pawl hook, knee, and sheeve, in combination, substantially and for the purposes set forth."

No. 26,358. E. E. Marcy, of New York, N. Y., for an "Improvement in india-rubber fabrics."

"I claim the improved india-rubber fabric made by the combination of india rubber with hyposulphite of zinc, and by the exposure of the said compound to steam or water at the temperature herein-before stated, substantially as described, without any admixture of free sulphur."

No. 26,359. E. E. Marcy, of New York, N. Y., for an "Improvement in india-rubber fabrics."

"I claim the improved india-rubber fabric made by the combination of india rubber with sulphuret of lead and carbonate of lead or the protoxide of lead, and by the exposure of said compound to steam or water at the temperature herein-before stated, substantially as described, without any admixture of free sulphur."

No. 26,360. E. E. Marcy, of New York, N. Y., for an "Improvement in india-rubber fabrics."

"I claim the improved india-rubber fabric made by the combination of india rubber with the sulphuret of zinc and hyposulphite of zinc, and by the exposure of said compound to steam or water at the temperature herein-before stated, substantially as described, without any admixture of free sulphur."

No. 26,361. Emanuel Marquis, of Bloomington, Ind., for an "Apparatus for setting and copying music for the blind."

"I claim the tablet A, or its equivalent, with raised staves and sockets, in combination with detached solid notes and other signs of musical notation, or their equivalents, capable of being transposed on and fixed in the table, substantially as and for the purpose described."

No. 26,362. Saml. W. Marsh, of Washington, D. C., for an "Improvement in breech-loading fire-arms."

"I claim the construction and application of a detachable-headed breech-pin *h*, *h*, I, J, K, Fig. 6, with a split female expanding ring or collar L, Fig. 7, and a non-expanding male collar or ring M, Fig. 8, and is detachable, adjusting screw-head O, Fig. 9, forming a compound expanding detachable-headed breech-pin, as shown complete at *h*, *h*, L, O, Fig. 4, substantially as described and set forth."

No. 26,363. Edwin May, of Indianapolis, Ind., for an "Apparatus for sanding painted surfaces."

"I claim the combination and arrangement of the blast fan F in cylinder A, conductor B, adjustable mouth piece D, with the elastic tube N, or its equivalent, when constructed and arranged substantially as set forth."

No. 26,364. Edward Maynard, of Washington, D.C., for an "Improvement in breech-loading fire-arm."

"I claim, first, the peculiar manner of connecting the barrel to the breech piece, viz.: the hook *e* on the underside of the barrel, taking hold of the pin *f*, (or the equivalent thereof), at the front end of the breech piece, whilst the link C, the lever D, and the joint pins of said link and lever, are arranged in such a manner with relation to the slot in the breech piece, and the ears on the underside of the but of the barrel as to form a treble jointed and compound leverage connection between the breech piece, and the but of the barrel, of such a character that the barrel can be instantly thrown from a firing position to a loading position, and vice versa, and also of such a character that the barrel can be easily and quickly detached from the breech piece, or be securely united thereto, substantially in the manner herein set forth. I also claim, the combination of the metallic block *b*, the screw *c*, and the screw *a* with each other, and with the front portion of the breech piece, in such a manner with relation to the shoulder *d*, on the underside of the barrel, that the joint between the but of the barrel and the abutment of the breech piece, can be tightened or loosened substantially in the manner herein set forth. I also claim the retaining of the pivot pin *w*, in its position within the breech piece by means of the overlapping head of the screw a^1; but this I only claim, when the longitudinal groove *z*, in one side of a portion of the length of said pivot pin is so located that when the pin is turned to the position shown in fig. 12, (or any other previously determined position), it may be drawn out far enough, and only far enough to detach the said pin from its hold upon the lever D, and thereby allow the barrel to be separated from the breech piece, substantially in the manner herein set forth. When the pivot pin *w* is retained in its position within the breech piece by the overlapping head of the screw a^1, in such a manner that it can be loosened by partially turning the same upon its axis, I also claim the arm b^1, upon the outer end of said pin, which enables it to be readily turned upon its axis, and partially withdrawn from its place without any mechanical assistance substantially as herein set forth. When the barrel is connected to the breech piece in the within described manner, I also claim the producing of a tight joint between the but of the barrel and the abutment of the breech piece, by combining therewith a flange bottomed metallic cup, substantially as herein set forth. I also claim giving the opposite faces *r*, *r*, of the but of the barrel, such a shape that the flange bottomed metallic cup (*r*) can be easily taken hold of by the thumb and finger of the free hand of the user, when the barrel is thrown into the loading position, substantially as herein set forth."

No. 26,365. G. W. Mitchell, of Jackson, Tenn., for an "Improvement in mode of operating car brakes."

"I claim the flanged or ratchet wheel, and its hooked pawl as described and shown in fig. 2, at F, G. I claim also, the spring platform and the pin attached, and stop pin L, fig. 2, as described and for the purpose set forth."

No. 26,366. G. W. Mitchell, of Jackson, Tenn., for an "Improvement in sewing machines."

"I claim, first, the combination of the crank I, on the driving shaft, the slotted arm H, forming a portion of the same lever, with the needlearm, and so extended as to operate the lever F^1, and the lever E^1, carrying the shuttle or looper, the whole arranged and operating substantially as herein described to drive the needle and shuttle. Second, the vertically and horizontally elastic arm L, having the presser attached, and constructed, and applied substantially as herein described, so as to be operated upon by an appendage of the needle to feed the material substantially as herein set forth. Third, the polygonal collar M, fitted to turn upon the needle arm, so that any one of its sides may be presented to act upon the presser arm, for the purpose of feeding the cloth more or less according to the wish of the operator, as herein set forth."

No. 26,367. Richd. Montgomery, of New York, N.Y., for an "Improvement in iron ships."

"I claim, first, forming the supports or frame, to which the side covering E is attached, of iron or other metal corrugated in the form and for the purposes substantially as above described. Second, I claim the combination and arrangement of the corrugated cross beams B, and corrugated bottom supports A, with the iron divisions D, substantially as and for the purpose set forth."

No. 26,368. Oscar F. Morrill, of Boston, Mass., for an "Improvement in broiling apparatus."

"I claim the improved steak broiler, as made with the deflector in its grid or grating, a flame and heat passage under the deflector, and with the gravy trough to surround or encompass the heat passage as specified."

No. 26,369. John Knickerbacker, of Stockport, N.Y., for an "Improvement in clutch for pulley coupling."

"I claim suspending the clutches or impellers A, A, A, in radial slots in the disc of the movable pulley E, so as to allow them to vibrate, substantially in the manner and for the purpose herein set forth."

No. 26,370. N. W. Langley, of East Cambridge, and Henry Jones and Aaron S. Drake, of Stoughton, Mass., for a "Mode of securing photographs, &c., to tombstones."

"We claim securing daguerreotypes, photographs, &c., upon tombstones, by inclosing them in a glass case, the opening to which is closed by a glass stopper, and affixing the same to the stone."

No. 26,371. Thos. J. Linton, of Providence, R.I., for an "Improvement in mounting precious stones, &c."

"I claim the improvement in making mountings for precious stones and other articles of jewelry which are to be mounted, by forming the border setting and beveled edge from a single sheet of metal at one operation, by the use of a die, in the manner described, the mountings being in an oval, round, square, or other form, as the article to be mounted may require."

No. 26,372. Charles A. Lowber, of Medina, N. Y., for an "Improvement in cotton seed hullers."

"I claim making the runner with the surface next to the shaft smooth, to receive the cotton seed from a suitable

hopper, and cause them to be properly distributed thereon, and to be carried toward the periphery, and with that part of the surface within the periphery and outside of the smooth part armed with teeth, in the form of long cutting edges, having continuous channels or furrows between them, of sufficient size to receive a cotton seed, and permit it to pass and roll therein, substantially as described, in combination with an upper plate surrounding the eye or aperture, for the passage of the cotton seed to the smooth part of the surface of the runner; the under surface of the said plate being parallel with the surface of the runner, and armed with a ring of teeth, in the form of long cutting edges, and formed with interposed channels or furrows, similar to those of the runner, but of reversed inclination, substantially as and for the purpose specified. I also claim making the said teeth of long cutting edges, and surrounding the smooth surface of the runner of varying lengths, as described, that is, having some of them approaching the shaft nearer than others, that the seeds, while travelling outward on the smooth surface of the runner, may arrange themselves, and properly enter the furrows or channels one by one, as described. And I also claim surrounding the periphery of the runner and upper plate with a trough which extends within the periphery of the runner, leaving an open space or air passage between, substantially as described, in combination with the vanes, or equivalent means, for blowing in a current of air, substantially as and for the purposes specified."

No. 26,373. Washington A. Peaslee and John O. D. Lilly, of Indianopolis, Ind., for an "Improvement in spark arresters and chimneys of locomotive engines."

"We claim the construction of a chimney or spark arrester, by the combination and arrangement of the various parts, substantially as they are described in the foregoing specification, and for the purposes mentioned."

No. 26,374. Nathan Pucket, of Deming, Ind., for an "Improved boiler feeding apparatus."

"I claim the arrangement of the chamber D, valve E, chest A, and openings B, C, as and for the purpose herein shown and described."

No. 26,375. Saml. M. Richardson, of New York, N.Y., for an "Improvement in hinges."

"I claim constructing hinges for blinds by the bent strap *f*, *g*, passing around the outer edges of the blind, and enclosing the angle thereof combined with the eye *d*, connected to said bent strap *f*, *g*, by the part *e*, the whole applied and acting in the manner and for the purposes specified."

No. 26,376. D. Sandford, of Taylor, Ill., for an "Improvement in harvesters."

"I claim, 1st, the sliding rake bar E, fitted within the bent arm D, and provided with a jointed rake head F, in connection with the guide strip *m*, and a gavel passage *n*, on the platform A, substantially as described. 2nd, the combination of the tilting gavel receiver H, with the tilting box J, when arranged to operate together automatically, as and for the purpose set forth."

No. 26,377. Henry Bohrer, of Strasburg Township, Lancaster Co., Pa., for an "Improved churn."

"I claim the application of the tubes I, K, to enter the rear head of the churn, the connecting pipes C and H, and its wide mouth *m*, partition *l*, and connecting tubes L, M, with the dashers D elevated on an open step F, when combined in the manner and for the purpose specified."

No. 26,378. Wm. Selpho and James Waller, of New York, N. Y., for an "Improvement in artificial hands."

"We claim, first, the arrangement of the cords or catguts *m* and *o*, and the pulley *n*, as set forth, for applying a double purchase in opening the hand, as described and shown. Second, we claim the arrangement of the wrist joint and hand spring *l*, whereby the said spring *l* can be adjusted by the rod *k* that passes through the pipe *h*, in the manner specified. Third, we claim the cord *p*, or its equivalent, passing from the elbow pad *r* and giving motion at the wrist *g*, for the purposes and as specified."

No. 26,379. Isaac C. Shuler, of Amsterdam, N. Y., for an "Improvement in sheet-metal coffins."

"I claim, first, the arrangement of stiffening the base of a sheet-metal coffin by locking together the surplus edges of the walls and bottom, forming a rim (*c*) surrounding the base also the frame (D). Second, the inside tray (E), whose bottom is in permanent contact with the exterior bottom (S), and whose sides may be soldered directly to the walls (A) or set away, leaving a chamber to be filled with molten metal, as described. Third, the arrangement of scrolling or double locking the walls at the corners, in order by making a voluminous joint to stiffen and brace the general structure, whether the body of the joint be formed on the inner or outside of the coffin. Fourth, I claim the slotted or double rim H, I, through which the walls protrude, as described, for the purpose of stiffening the upper edges of the walls and sustaining the lid or cover. Also, the arrangement of folding the surplus edges of the walls over the frame (I), for the purpose specified. Fifth, I claim stiffening the cover (J) with the frame (*r*) near its outer edge on the upper side, enclosing the surplus sheet metal over the same. 6th, I claim, for the purpose of stiffening their respective portions of the coffin, the frames of cast or wrought metal (P) for the blind (B), (K), for the cover (J), G, and F, for the walls in the vicinity of the handles (*t*), for the upper edge of the tray (E) and (*q*), for the exterior bottom (S). 7th, I disclaim hinging the sections of the concave sides of the cover to the body of the same. I claim hinging them to the body of the coffin."

No. 26,380. J. C. Stoddard, of Worcester, Mass., for an "Improvement in hay-making machines."

"I claim, 1st, the rake head shaft, furnished with friction wheels or rollers, which are arranged on pivoted lever bearings, in combination with driving wheels which are furnished with a plain flange for the friction rollers to act against, so that the necessary friction may be produced either by means of the specified lever arrangement or by the same in combination with the gravity of the rake head, substantially as and for the purpose set forth. I further claim the adjustable spurred ring P, set screws *p*, *p*, with the wheels *u* on the ends of the rake bars N, arranged and combined as set forth, and for the purposes specified."

No. 26,381. Saml. Tarver, of White County, Ark., for an "Improvement in saw-mills."

"I claim, first, the arrangement of the parts A, B, C, D, E, H, I, J, K, L, of Fig. 1; I say arrangement, because I cannot claim the invention of pulleys, saws, rollers, shafts, &c., these being in use everywhere, but simply claim the peculiar manner in which they are arranged. I claim the construction of the saw carriage, as described above and by drawing of Fig. 3."

No. 26,382. Thos. Thorp, of New York, N. Y., for a "Machine for making cigars."

"I claim, first, the arrangement of the drums or pulleys A, B, in connection with the rollers M and belt C, with or without the rollers N, substantially as and for the purpose herein set forth. Second, I claim, in connection with the above, the runged wheel D, or its equivalent, arranged and operated in the manner and for the purposes herein set forth. Third, I claim the means, substantially as described, of regulating the pressure on the segar. Fourth, I also claim as my invention the arrangement of the machine, substantially as herein set forth, as an arrangement not heretofore known, for the purpose herein-before mentioned. Fifth, I also claim the peculiar steady curves or bends given to the belt C, for the purposes herein mentioned."

No. 26,383. I. P. Tice, of Baltimore, Md., for an "Improved rotary cutter head."

"I claim the employment or use of a cylinder C, or any segment or section thereof, applied to rotary cutters, to operate substantially as and for the purpose set forth."

No. 26,384. Geo. W. Tolhurst, of Liverpool, O., for an "Improved washing machine."

"I claim constructing the round follower of washing machines of two sets of rings (or hoops), and furnishing each set of rings with a handle, so that the surface that comes in contact with the clothes can move in opposite directions at one time; and this I claim, when the same is arranged for operation in the manner and for the purpose as herein described and set forth for the purpose specified."

No. 26,385. A. P. Torrence, of Oxford, Geo., for an "Improved machine for girdling and felling trees."

"I claim the employment or use of the handle B, provided with a cutter A, and connected to a draught lever G by the bars C, D, E, or any equivalent means, so as to operate substantially as and for the purpose set forth."

No. 26,386. Hiram Van Deuson, of Phelps, N. Y., assignor to himself and Hiram Rockefeller, of

Clifton Springs, N.Y., for an "Improved clap board gauge."

"I claim a gauge for fitting clapboards for nailing, composed of the bar A, the arm B, the slide D, with the cam and lever by which it is actuated, the stop H and the straight edge *k*, or their equivalents, constructed and arranged substantially as herein set forth."

No. 26,387. Theodore Van Deventer, of New Brunswick, N. J., for an "Improvement in rollers for printing paper hangings."

"I claim the combination of the conically bored and grooved bushes B, the concentric feathered collars D, D, the feathered and screwed shaft C, and the nuts E, E, the whole applied and operating as herein described."

No. 26,388. Nahum Washburn, of Bridgewater, Mass., for an "Improvement in dental apparatuf for the relief of pain while operating."

"I claim the combination of dental forceps or instrument for operating upon teeth with electro-magnetic mechanism, substantially as described, or its equivalent, so that the electrical current or currents may be made to flow through the nerve or nerves of the tooth, or the jaw or flesh immediately contiguous thereto, in order to benumb the same, and render such more or less insensible to pain during the performance of the dental operation; and I also particularly claim the application of the electrical apparatus to the dental instrument, so that the latter may be in or form part of the circuit, as specified."

No. 26,389. D. A. Willbanks, of Harmony Grove, Geo., for an "Improvement in threshing machines."

"I claim the peculiar construction of the wrought iron ribs I, in combination with the peculiar construction and arrangement of the cylinder heads H, to wit, the ribs with angular hooks *e*, *e*, and the cylinder heads with key seats, and with slotted projections *c*, *c*, and radial slots *d*, as and for the purpose set forth."

No. 26,390. Wm. F. Yeager, of Starkville, Miss., for an "Improvement in ploughs."

"I claim the arrangement of the land side G, the shank S, bolt P, brace T, lug, V, beam F, brace X, handles E, D, share A, cutter K, and mould board B, the whole being constructed as described, for the purposes set forth."

No. 26,391. Geo. W. Atkins, of Milton, Del., and William B. Aitkens, of Philadelphia, Pa., assignors to Geo. W. Atkins, aforesaid, and I. B. Henry, of Delaware city, Del., for an "Improvement in registering machines."

"We claim, 1st, making the ratchet wheels (C and C^1,) in pans, secured together with their notches inclined in opposite directions, as described, in combination with both an actuating and a checking pawl operating together simultaneously, as described, the same being constructed and arranged together substantially in the manner and for the purpose set forth and described. 2nd, we claim the employment of a self-righting cover (G, G^1), operating in combination with a platform (A), or its equivalent, substantially in the manner and for the purpose set forth and described; and this we claim whether the said cover (G, G^1,) be applied either to a fixed platform or floor (A), or to the moving platform of a weighing scale, connected with a registering machine, as specified. 3rd, we also claim the belt striker (F), when the same is constructed with the arms 5, 6, 7, and operated by the notches of the ratchet wheel (C), as and for the purpose set forth and described."

No. 26,392. Charles H. Denison, of Guilford, Vt., assignor to A. Miller, of Brattleborough, Vt., for an "Improved tool for finishing felloes."

"I claim, first, the above described washer, and the above described iron gauge for trimming and shaping the internal surface of felloes, and second, the above-described collar gauges for squaring the external and internal curved surfaces of the felloe."

No. 26,393. Wm. B. Dunbar, of Waterbury, Conn., assignor to himself and George H. Seymour, of Plymouth, Conn., for an "Improved ladle and fork."

"I claim the combined ladle and fork, constructed in the manner described and represented, for the purposes set forth, as a new article of manufacture."

No. 26,394. Thos. Ellis, of Philadelphia, Pa., assignor to himself, W. A. Ellis, and A. D. Ellis, of same place, for an "Improvement in casting boxes for wheel hubs."

"I claim supporting the sand core E between two sand heads F, when the above parts are employed in connection with a sand mold C, in the manner herein shown and described."

No. 26,395. Richard Fitzgerald, of Newark, N.J., assignor to James Booth, of same place, for an "Improvement in machines for forming hat bodies."

"I claim, 1st, distributing the fur C, on the former L, by discharging the same through an annular opening b^1, over and co-centric, with the primer L, substantially as herein set forth. 2nd, the employment or use of the stationary shell O, provided with the recess *p*, cards or pickers *q*, *r*, and having within it the co-centric rotary wheels P, Q, one or more, also provided with cards or pickers *v*, *u*, and with or without fan blades *w*, when said parts are arranged relatively with the former L, to operate substantially as described. 3rd, the employment or use of the slide G, with the sliding tube or pipe H, fitted within therein, containing the former shaft J, the box F, and elastic belt *l*, or its equivalent, the above parts being arranged relatively with the suction fan C, and the shell O and wheels P, Q, substantially as and for the purpose specified."

No. 26,396. Geo. N. Hall, of Mamakating, N. Y., assignor to himself and S. Arthur and J. Pierce, of said Mamakating, and S. D. Arthur, of New York, N. Y., for an "Improvement in horse hay rakes."

"I claim the arrangement of the main lever H, intermediate link *h*, auxiliary lever *e*, connecting rod *d*, cam *k*, arm *c*, rake-head G, *b*, and slotted brace bar F, and driver's seat D, substantially as and for the purposes set forth."

No. 26,397. James W. McLean, of Indianapolis, Ind., assignor to himself and Edwin May, of same place, for an "Improvement in steam ploughs."

"The arrangement of the plows *h*, gearing V, W, X, cutters *b*, lever T, and connecting rod S, in combination with the universal jointed shaft U, M, M, when operated in connection with the steam engine, substantially as set forth."

No. 26,398. John P. Kemp, of Charlestown, Mass., assignor to N. F. Stevens, of Moultonboro', N. H., for an "Improvement in peg tubes and drivers."

"I claim constructing the interior peg guiding portion of the tube, of a form made up of corners, or angles and surfaces, substantially as described, and so that while the cross section or area thereof is materially greater than that of the peg, to admit of a driver of increased strength, and of materially greater cross section or area than that of the peg working therein, said tube, in its peg guiding portion, serves by its corners, or angles and surfaces, to restrain the peg from lateral skake or play."

No. 26,399. Warren Nichols, of Lima, O., assignor to himself and Thos. Ghormley, of Stokes, O., for an "Improvement in cattle pumps."

"I claim, the combination with the covers L, L^1, of stops, which will open the trough, when its corresponding platform rises to its highest position, and close it when the platform descends to its lowest position, as herein described, for the purpose set forth. Second, the arrangement described of the spout I, in combination with the arm *k*, or with some other part, operated by the descent of one of the platforms, by which the direction of the water is changed near the close of the descent of the platform, as set forth, for the purpose stated."

No. 26,400. Geo. H. Reynolds, of New York, N.Y., assignor to Caleb Barston, and D. D. Badger, of same place, for an "Improvement in cut-off valves of steam engines."

"I claim the arrangement within each steam chest of a rotary engine, of the starting and reversing valve, having the cut-off valve in combination therewith, the two being so coupled and operating that the starting or reversing may be effected without coupling or uncoupling any of the connecting parts, substantially in the manner set forth."

No. 26,401. NANCY P. BRASHEAR, of the parish of St. Mary, La., executrix of Robt. B. Brashear, late of Pattersonville, La., for an "Improved mode of applying sulphurous acid gas in the defecation of cane juice."

"I claim subjecting sugar cane juice, or other saccharine liquid, to the direct action of the fumes of burning sulphur, such liquid being employed in a diffused state, as set forth, so that every or nearly every portion of the whole body of liquid is brought in contact with the same, almost simultaneously, substantially as and for the purposes set forth."

No. 26,402. REBECCA H. WILLSON, of Washington, D. C., administratrix of the estate of John M. Willson, deceased, late of same place, for an "Improvement in fastening for cartridge boxes."

"I claim a cartridge-box fastening composed of hinged lever and spring, said spring serving to hold the lever open or closed, and said lever, by the aid of said spring, clamping the flap of the cartridge-box between itself and the side of said box, substantially as herein represented."

RE-ISSUES.

WILLIAM BUTCHER and WILLIAM A. BUTCHER, of Philadelphia, Pa., for an "Improvement in coating metallic surfaces."—Patented 29th June, 1858. —Re-issued 6th December, 1859.

"We claim the combined process, substantially as herein described, of coating metals with the composition made of india rubber or allied gum, dissolved in and combined with linseed oil in a heated state, in proportions substantially such as set forth, by first heating the metal to be coated to about 350 degrees, applying the composition to the metal surface while so heated, and then subjecting the metal so coated to about two hundred degrees of heat, substantially as described."

EXTENSIONS.

THOMAS D. BURRALL, of Geneva, N.Y., for an "Improvement in corn shellers."—Patented 6th December, 1845.

"I claim making the concave plate or disc with a concave face and circular opening, provided with a lower and upper lip for the discharge of the cobs, in combination with the sheller, and with the shell or bottom, and also with the door or valve in the side for the broken cobs, &c., and also the cylindrical hopper and spring in combination with the feeder, all as herein described."

JAMES HAMILTON, of New York, N.Y., for an "Improvement in dredging machines."—Antedated 16th December, 1845.—Dated 30th March, 1852.

"I claim the shovels or scoops *h*. forming the bottoms of compartments in a proper frame, and moving at one end on a hinge or similar contrivance, the other end being lowered to cause the scoop, as the frame is moved along, to collect the sand or mud, or other material operated on, and retain the same by suitable mechanical means, operating to lift the scoop and close the bottom, as described and shown."

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6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) EDWARD SOMERSET, Lord Marquis of WORCESTER, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
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10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By JONATHAN HULLS. (*Letters Patent, No.* 556, *dated 21st December*, 1736.) Price 8*d.*
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B. Woodcroft.

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THE

COMMISSIONERS OF PATENTS' JOURNAL.

By Authority.

(*Registered for transmission abroad.*)

No. 624. TUESDAY, DECEMBER 27, 1859. Price 2d.

Notices to Proceed.

NOTICE is hereby given, that

1867. DUGALD CAMPBELL, of No. 7, Quality Court, Chancery Lane, in the county of Middlesex, Consulting Chemist, has given notice at the Office of the Commissioners of his intention to proceed with his application for Letters Patent for the invention of "Improvements in the preparation of oils for medicinal and other purposes."

1873. And CARL BÜHRING, of No. 45, St. Paul's Road, Camden Town, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "An improvement in obtaining spring power, and in its application to various purposes."

As set forth in their respective petitions, both recorded in the said office on the 13*th day of August*, 1859.

1879. And SAMUEL HARRISON, of 52, Stanhope Street, Clare Market, in the parish of St. Clement Danes, county of Middlesex, has given the like notice in respect of the invention of "Broiling of chops or any other kind of meat."

1885. And JOHN POUPARD, of Stratford, in the county of Essex, has given the like notice in respect of the invention of "A certain plastic combination to be used for blackleading stoves and other iron-work."

As set forth in their respective petitions, both recorded in the said office on the 15*th day of August*, 1859.

1893. And HENRY MEDLOCK, of Nos. 15 and 20, Great Marlborough Street, in the city and liberty of Westminster, Analytical Chemist, has given the like notice in respect of the invention of "Improvements in Portland and Roman cement, lime, and other similar kilns or furnaces."

1897. And AUGUSTUS YOCKNEY, of Pockeredge, near Chippenham, in the county of Wilts, Gentleman, has given the like notice in respect of the invention of "Improvements in refining and compounding oils or fatty matters with other substances for lubricating and other purposes."

As set forth in their respective petitions, both recorded in the said office on the 17*th day of August*, 1859.

1898. And WESTON GRIMSHAW, of Lower Broughton, near the city of Manchester, Gentleman, and SAMUEL MASON, junr., of the city of Manchester, Machinist, have given the like notice in respect of the invention of "Improvements in machinery and apparatus employed in washing, bowking, bleaching, and preparing flax and other substances."

1900. And ADOLPHE JOSEPH CANU, of Paris, France, Civil Engineer, has given the like notice in respect of the invention of "Improvements in machines for breaking or crushing stones, minerals, or other similar materials."

As set forth in their respective petitions, both recorded in the said office on the 18*th day of August*, 1859.

1904. And PETER SALMON, of Glasgow, in the county of Lanark, Merchant, has given the like notice in respect of the invention of "Improvements in locomotives, and in apparatus for warming trains of carriages connected thereto."

As set forth in his petition, recorded in the said office on the 19*th day of August*, 1859.

1911. And EDWIN HARDON, of Stockport, in the county of Chester, Manufacturer, has given the like notice in respect of the invention of "Certain improvements in looms for weaving."

1912. And WILLIAM FINEGAN, of Belfast, in the county of Antrim, Ireland, Engineer, has given the like notice in respect of the invention of "Improvements in apparatus for lubricating machinery."

1914. And GEORGE WILLIAM PETTER and THOMAS DIXON GALPIN, both of Belle Sauvage Yard, Ludgate Hill, in the city of London, Printers

and Copartners, have given the like notice in respect of the invention of "Improvements in printing presses."

1917. And JOSEPH JEPSON ODDY TAYLOR, of Mark Lane, in the city of London, Naval Engineer, has given the like notice in respect of the invention of "An improvement in the separation of silex and silicious matter from iron."

1920. And HENRY PARKES, of Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "Improvements in the manufacture of cylinders and tubular or hollow bodies of copper and alloys of copper or other ductile metals."

1922. And OLIVER MAGGS, of Bourton, in the county of Dorset, has given the like notice in respect of the invention of "Improvements in taps, cocks, or valves."

As set forth in their respective petitions, all recorded in the said office on the 22nd day of August, 1859.

1931. And GEORGE PEARSON, of the city of Manchester, in the county of Lancaster, Machinist, has given the like notice in respect of the invention of "Improved machinery for manufacturing boot and shoes."

1933. And JOSEPH HENRY, of Bury, in the county of Lancaster, and JAMES EDWARD HYDE ANDREW, of Audenshaw, in the said county, Machinists, have given the like notice in respect of the invention of "Improvements in looms for weaving."

1934. And JOHN BLAKE, of Accrington, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in steam and vacuum gauges."

As set forth in their respective petitions, all recorded in the said office on the 24th day of August, 1859.

1941. And AMOS PIERCE CHAMBERLAIN, of New Orleans, in the United States of America, but at present residing in London, Engineer, has given the like notice in respect of the invention of "Improvements in machinery or apparatus for cutting cork, part of which improvements is also applicable to cutting paper, caoutchouc, and other substances."

As set forth in his petition, recorded in the said office on the 25th day of August, 1859.

1959. And JOSEPH WHITWORTH, of the city of Manchester, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "Improvements in ordnance, fire-arms, and ammunition.

1960. And THOMAS MERITON, of No. 39, Pinnasberg, St. Pauli, Hamburgh, Engineer, has given the like notice in respect of the invention of "Improvements in governors for regulating the speed of marine and other engines and machinery."

1963. And WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, has given the like notice in respect of the invention of "Certain improvements in sewing and stitching by machinery."—A communication from abroad by Kasimir Vogel, of Chelsea, in the county of Suffolk, state of Massachusetts.

As set forth in their respective petitions, all recorded in the said office on the 29th day of August, 1859.

1971. And JAMES HARE, of Hamstead Road, Handsworth, near Birmingham, Music Smith, has given the like notice in respect of the invention of "Improvements in pianofortes."

As set forth in his petition, recorded in the said office on the 30th day of August, 1859.

1995. And THOMAS AVELING, of Rochester, in the county of Kent, has given the like notice in respect of the invention of "Improvements in locomotive engines."

1997. And ROBERT HANHAM COLLYER, of 8, Alpha Road, Regent's Park, in the county of Middlesex, Doctor of Medicine and Philosophy, has given the like notice in respect of the invention of "Improvements in preparing materials for the manufacture of paper."

As set forth in their respective petitions, both recorded in the said office on the 1st day of September, 1859.

2008. And JEAN FRANÇOIS FELIX LEROUX, of 29, Boulevart St. Martin, Paris, in the empire of France, Merchant, has given the like notice in respect of the invention of "A new or improved apparatus to be employed for taking money on the counters."

As set forth in his petition, recorded in the said office on the 2nd day of September, 1859.

2028. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in sewing machines."—A communication from abroad by Henry Washington Hayden, of Waterbury, in the state of Connecticut, United States of America.

2029. And ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention of "Improvements in weighing machines."—A communication from abroad by John Howe, jun., and Frank E. Howe, both of New York, and Francis Miles Strong and Thomas Ross, both of Brandon, county of Rutland, and state of Vermont, United States.

As set forth in his respective petitions, both recorded in the said office on the 5th day of September, 1859.

2058. And MATTHEW MURRAY JACKSON, of Zurich, in the republic of Switzerland, Engineer, has given the like notice in respect of the invention of "Improvements in generating steam for condensing engines."

As set forth in his petition, recorded in the said office on the 9th day of September, 1859.

2135. And LOUIS ENGLER and ERNEST FRÉDÉRIC KRAUSS, Manufacturers, of No. 29, Boulevart St. Martin, Paris, in the empire of France, have given the like notice in respect of the invention of "A new or improved system of insulators for electric wires."

As set forth in their petition, recorded in the said office on the 19th day of September, 1859.

2179. And Joseph Villet-Collignon, Literary Man, and Louis George, Typographer, of Paris, 29, Boulevart St. Martin, in the empire of France, have given the like notice in respect of the invention of "Improvements in the typography."
As set forth in their petition, recorded in the said office on the 26th day of September, 1859.

2187. And Thomas Beards, of Stowe, in the county of Bucks, has given the like notice in respect of the invention of "Improvements in ploughing and cultivating land by steam power, and in machinery used for such purposes."
As set forth in his petition, recorded in the said office on the 27th day of September, 1859.

2206. And Edward Hammond Bentall, of Heybridge, near Maldon, in the county of Essex, Ironfounder, has given the like notice in respect of the invention of "Improvements in screw presses."
As set forth in his petition, recorded in the said office on the 29th day of September, 1859.

2244. And Samuel Robert English, Seal Engraver and General Die Sinker, of Birmingham, in the county of Warwick, has given the like notice in respect of the invention of "A machine or apparatus for taking copies of writing."
As set forth in his petition, recorded in the said office on the 4th day of October, 1859.

2417. And Richard Archibald Brooman, of 166, Fleet Street, in the city of London, E.C., Patent Agent, has given the like notice in respect of the invention of "A method of preparing inoxidizable oils and fats to be employed as lubricating substances."—A communication from abroad by Jules Roth, of Mulhouse, France.
As set forth in his petition, recorded in the said office on the 22nd day of October, 1859.

2566. And Augustin Jacquelain, of Paris, in the French empire, Chemist, has given the like notice in respect of the invention of "Improvements in the manufacture of carbon and in apparatus employed therein."
As set forth in his petition, recorded in the said office on the 11th day of November, 1859.

2632. And Joseph Cowan, of Liverpool, in the county of Lancaster, Cabinet Maker, has given the like notice in respect of the invention of "Improvements in 'bracing' or connecting the angles or corners of chairs, and other like articles of cabinet-furniture."
As set forth in his petition, recorded in the said office on the 21st day of November, 1859.

2638. And Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, No. 123, Chancery Lane, London, W.C., has given the like notice in respect of the invention of "Improvements in weaving silk and other materials, and in the machinery or apparatus employed therein."—A communication from abroad by Horace Verzier, Manufacturer, residing at Lyon, in the empire of France.

2643. And Thomas Barbabas Daft, of Tottenham, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "An improvement in coating sheathing metal."
As set forth in their respective petitions, both recorded in the said office on the 22nd day of November, 1859.

2675. And Ferdinand Scheithauer, of Pensing, in the empire of Austria, and No. 4, South Street, Finsbury, London, Gentleman, has given the like notice in respect of the invention of "An improved machine for printing woollen and other fabrics."
As set forth in his petition, recorded in the said office on the 26th day of November, 1859.

2692. And Charles Sells, of Stockwell, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in steam engines."
As set forth in his petition, recorded in the said office on the 28th day of November, 1859.

2720. And James Cocks, of No. 25, Cornhill, in the city of London, Tailor, has given the like notice in respect of the invention of "Improvements in the mode of manufacturing cloths or materials for trowserings."

2724. And George Davidson, of Mugie Moss, in the county of Aberdeen, Paper Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of paper bags, and in the machinery or apparatus used therein."
As set forth in their respective petitions, both recorded in the said office on the 1st day of December, 1859.

2727. And William Betts, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, has given the like notice in respect of the invention of "Improvements in the manufacture of capsules, and in the machinery or apparatus employed therein."
As set forth in his petition, recorded in the said office on the 2nd day of December, 1859.

2754. And William Hutton, of West Hartlepool, im the county of Durham, Gentleman, has given the like notice in respect of the invention of "Improvements in preventing the destruction of the timbers of piers, docks, and other structures by the action of sea worms, or other marine animals."
As set forth in his petition, recorded in the said office on the 5th day of December, 1859.

2758. And Charles Sells, of Stockwell, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "Improvements in marine steam engines for driving screw and other propellers."
As set forth in his petition, recorded in the said office on the 6th day of December, 1859.

2767. And James Anderson, of Newton, in the county of Ayr, North Britain, has given the like notice in respect of the invention of "Improvements in obtaining motive power."
As set forth in his petition, recorded in the said office on the 7th day of December, 1859.

2778. And William Spence, of 50, Chancery Lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention

of "Improvements in rotating harrows."—A communication from abroad by Sidney S. Hogle, of Cleveland, in the county of Cuyahoga, and state of Ohio, United States.

As set forth in his petition, recorded in the said office on the 8th day of December, 1859.

2794. And JOEL SPILLER, of Cardiff, in the county of Glamorgan, South Wales, Civil Engineer, has given the like notice in respect of the invention of "Improvements in drying articles or bodies formed of plastic clay."

2798. And WILLIAM BETTS, of Wharf Road, City Road, in the county of Middlesex, Capsule Manufacturer, has given the like notice in respect of the invention of "An improved manufacture of capsules."

As set forth in their respective petitions, both recorded in the said office on the 9th day of December, 1859.

2805. And JAMES FARQUHAR, of the city and county of Aberdeen, North Britain, Clerk, has given the like notice in respect of the invention of "Improvements in gas meters."

2806. And WILLIAM WHITELEY, of Lockwood, near Huddersfield, in the county of York, Machinist, has given the like notice in respect of the invention of "Improvements in looms for weaving."

As set forth in their respective petitions, both recorded in the said office on the 10th day of December, 1859.

2817. And PATRICK STIRLING, of Kilmarnock, in the county of Ayr, North Britain, has given the like notice in respect of the invention of "Improvements in traction engines."

As set forth in his petition, recorded in the said office on the 12th day of December, 1859.

2830. And JOHN BARLING, of Belle Grange, in the county of Lancaster, Gentleman, has given the like notice in respect of the invention of "Improvements in propelling vessels."

As set forth in his petition, recorded in the said office on the 13th day of December, 1859.

2873. And THADDEUS FAIRBANKS, of St. Johnsbury, in the county of Caledonia, and State of Vermont, of the United States of America, has given the like notice in respect of the invention of "An improved scale for weighing letters."

As set forth in his petition, recorded in the said office on the 17th day of December, 1859.

And notice is hereby further given, that all persons having an interest in opposing any one of such applications are at liberty to leave particulars in writing of their objections to such application, at the said Office of the Commissioners, within twenty-one days next after the date of the Gazette [and of the Journal] in which this notice is issued.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 24th December,* 1859, *inclusive.*)

22nd December.

3102. WILLIAM BRAY, of Folkestone, in the county of Kent, Engineer, for an invention of "Improvements in traction engines."—Dated 31st December, 1856.

23rd December.

3060. CHARLES SYLVESTER ROSTAING, of Dresden, in the kingdom of Saxony, for an invention of "Improvements in preparing and combining metallic substances for the production of colours, and in manufacturing the same."—Dated 26th December, 1856.

3079. JAMES PETRIE and WILLIAM MCNAUGHT, of Rochdale, in the county of Lancaster, Engineers, for an invention of "Improvements in steam-engines."—Dated 27th December, 1856.

3082. GEORGE RITCHIE, of Ponsonby Street, in the county of Middlesex, for an invention of "Improvements in the manufacture of beds and mattresses."—Dated 27th December, 1856.

24th December.

3055. JAMES SAMSON BARRACLOUGH, of Halifax, in the county of York, Dye-Ware Grinder, for an invention of "Improvements in the means, machinery, or apparatus used for grinding dye wares." Dated 24th December, 1856.

Patents on which the Stamp Duty of £100 has been Paid.

(*To 22nd December,* 1859.)

1161. GEORGE BOWER, of Saint Neots, in the county of Huntingdon, Ironmonger and Ironfounder, for an invention of "Improvements in the manufacture of gas for illumination."—Dated 24th December, 1852.

1192. ARCHIBALD DOUGLAS BROWN, of Glasgow, in the county of Lanark, North Britain, Cabinet Maker, for an invention of "Improvements in the construction of portable articles of furniture."——Dated 29th December, 1852.

21. JEAN BAPTISTE PASCAL, of Lyons, in the empire of France, and of 16, Castle Street, Holborn, in the county of Middlesex, for an invention of "Improvements in obtaining motive-power."—Dated 5th January, 1853.

List of Specifications published during the week ending 23rd December, 1859.

No.	Price.	Subject-Matter.
924	5*d.*	Fire-bars.
1214	10*d.*	Fire-bars.
1215	3*d.*	Blast furnaces.
1216	5*d.*	Smoothing iron.
1217	3*d.*	Musical instruments.
1218	3*d.*	Envelopes, &c.
1219	9*d.*	Pressure gauges.
1220	3*d.*	Manure.
1221	3*d.*	Manufacture of steel for sharpening knives.
1223	9*d.*	Buffers and springs.
1224	7*d.*	Distillation of schist, &c.
1225	3*d.*	Manufacture of hooped petticoats.
1226	3*d.*	Composition for splitting rock.
1227	10*d.*	Apparatus for obtaining and applying motive power.
1228	7*d.*	Locks.
1229	10*d.*	Steam cultivators.
1230	3*d.*	Apparatus for sawing and cutting up loaf sugar.
1231	7*d.*	Counteracting the recoil of small arms.
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1249	5*d.*	Propelling vessels.
1250	1*s.* 1*d.*	Manufacture of tin and terne platês.
1251	10*d.*	Thrashing and winnowing machines.
1252	3*d.*	Harmonicon pianoforte.
1253	5*d.*	Lubricating and other cans.
1254	3*d.*	Manufacture of salt.
1255	3*d.*	Cartridges.
1256	3*d.*	Traction engines, &c.

*** Specifications will be forwarded by post on receipt of the amount of price and postage. Sums exceeding 5*s.* must be remitted by Post Office Order, made payable at the Post Office, High Holborn, to Mr. Bennet Woodcroft, Great Seal Patent Office.

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CONTENTS OF VOL. I.

1. Metallica; or, the treatise of Metallica, briefly comprehending the doctrine of diverse new metallical inventions, &c. By Simon Sturtevant. (*Letters Patent, dated 29th February*, 1611.) Price 1*s.* 4*d.*
2. A Treatise of Metallica, but not that which was published by Mr. Simon Sturtevant, upon his Patent, &c. By John Rovinson (*Letters Patent, granted A.D.* 1612.) Price 4*d.*
3. A Commission directed to Sir Richard Wynne and others to inquire upon oath whether Nicholas Page or Sir Nicholas Halse was the first inventor of certaine kilnes for the drying of malt, &c. &c. (*Letters Patent, Nos.* 33 *and* 85, *respectively dated* 8*th April*, 1626, *and* 23*rd July*, 1635.) Price 2*d.*
4. Dud Dudley's Metallum Martis; or iron made with pit-coale, sea-coale, &c. (*Letters Patent, Nos.* 18 *and* 117, *respectively dated* 22*nd February*, 1620, *and* 2*nd May*, 1638.) Price 8*d.*
5. Description of the nature and working of the patent Water-scoop Wheels invented by William Wheler, as compared with the raising wheels now in common use. By J. W. B. Translated from the Dutch by Dr. Tolhausen. (*Letters Patent, No.* 127, *dated* 24*th June*, 1642.) Price 2*s.*
6. An exact and true definition of the stupendous Water-commanding Engine, invented by the Right Honourable (and deservedly to be praised and admired) Edward Somerset, Lord Marquis of Worcester, &c. &c. (*Stat.* 15 *Car. II. c.* 12. *A.D.* 1663.) Price 4*d.*
7. Navigation Improved; or the art of rowing ships of all rates in calms, with a more easy, swift, and steady motion than oars can. By Thomas Savery. (*Letters Patent. No.* 347, *dated* 10*th January*, 1696.) Price 1*s.*
8. The Miner's Friend; or an engine to raise water by fire described, &c. By Thomas Savery. (*Letters Patent, No.* 356, *dated* 25*th July*, 1698, *and Stat.* 10 *&* 11 *Will. III. c.* 31, *A.D.* 1699.) Price 1*s.*
9. Specimina Ichnographica; or a brief narrative of several new inventions and experiments, particularly the navigating a ship in a calm, &c. By John Allen, M.D. (*Letters Patent, No.* 513, *dated* 7*th August*, 1729.) Price 8*d.*
10. A description and draught of a new-invented Machine for carrying vessels or ships out of or into any harbour, port, or river, against wind and tide, or in a calm, &c. By Jonathan Hulls. (*Letters Patent, No.* 556, *dated* 21*st December*, 1736.) Price 8*d.*
11. An historical account of a new method for extracting the foul air out of ships, &c., with the description and draught of the machines by which it is performed, &c. By Samuel Sutton, the Inventor. To which are annexed two relations given thereof to the Royal Society by Dr. Mead and Mr. Watson, (*Letters Patent No.* 602, *dated* 16*th March* 1744.) Price

REAPING MACHINES.—The entire series of Specifications and Drawings on this subject to the end of 1853, together with an Appendix, prepared by B. Woodcroft, of the Patent Office, and published under the sanction of the Commissioners, may be obtained at the cost price of 2*l.* 3*s.* 11½*d.*

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Brighton (*Town Hall*).
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Evenings - - - -	521
Total - - -	1133

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371 -	,, April to June ,,
399 -	,, July to September ,,
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1924. To ASHFIELD CHURCH HOPE, of No. 60, Cornhill, in the city of London, Gentleman, for the invention of "The manufacture of a new material from Spanish moss, applicable as a substitute for horse-hair."—A communication from abroad by William Amos Scarbrough Westoby, of No. 45, Rue Taitbout, Paris, France.

On his petition, recorded in the Office of the Commissioners on the 23rd day of August, 1859.

2715. To ACHILLE MERCIER, of Louviers, in the department of the Eure, in the empire of France, Engineer, for the invention of "A machine for felting the rovings, stubs, and threads or yarns of wool and other fibrous materials."

On his petition, recorded in the office of the Commissioners on the 1st day of December, 1859.

2861. To JOHN LANGLEY KING, of 56, Well Street, Oxford Street, London, Lecturer at the Royal Polytechnic Institution, for the invention of "A submarine lamp and safety lamp for mines and other useful purposes."

2863. To WILLIAM MOSLEY, junior, of Salford, in the county of Lancaster, Manager, for the invention of "Certain improved machinery or apparatus for washing, scouring, or cleansing textile fabrics or materials."

2865. To JOSEPH JEFFREY BENNETT, of Homer Terrace, Victoria Park, in the county of Middlesex, Civil Engineer, for the invention of "An improved construction of fluid meter."

2867. And to ROBERT MORRISON, of the town and county of the town of Newcastle-upon-Tyne, Engineer, for the invention of "Improvements in double and single action steam hammers."

On their several petitions, recorded in the Office of the Commissioners on the 16th day of December, 1859.

2869. To FRIEDRICH HOCHSTAETTER and HEINRICH HOCHSTAETTER, of Gresham Street, City, for the invention of "The preparation of a substitute for gunpowder."

2871. To FRANK CLARKE HILLS, of Deptford, in the county of Kent, Manufacturing Chemist, for the invention of "Improvements in means and apparatus for purifying gas, and in the preparation and treatment of oxides of iron to be used in such purification, or for other purposes."

2877. To PETER SPENCE, of Pendleton, in the county of Lancaster, Manufacturing Chemist, for the invention of "Improvements in repairing bells injured by cracks or fractures."

2879. And to WILLIAM CLARK, of 53, Chancery Lane, in the county of Middlesex, Engineer and Patent Agent, for the invention of "Improvements in the supports or chairs of railway rails."—A communication from abroad by Messrs. Auguste Desgoffe and Leon Jucqueau, of Paris, Civil Engineers.

On their several petitions, recorded in the Office of the Commissioners on the 17th day of December, 1859.

Patents Sealed.

LIST of LETTERS PATENT which passed the Great Seal on the

30th December, 1859.

1553. LOUIS BOIGEOL, of Giromagny, near Belfors Town, in the French empire, Manufacturer, for an

invention of "Improved machinery for winding and twisting fibrous materials."—Dated 30th June, 1859.

1564. JULIAN BERNARD, of the Albany, Piccadilly, in the county of Middlesex, Gentleman, for an invention of "Improvements in uniting certain parts of boots and shoes and in the means employed therein."—Dated 30th June, 1859.

1574. ROBERT ROYDS and ANTHONY HARCOURT, both of Woolston, in the county of Hants, Engineers, for an invention of "An improved composition for protecting the bottoms of ships and other structures of iron."—Dated 1st July, 1859.

1584. HERMANN HIRSCH, of Berlin, in the kingdom of Prussia, for an invention of "Improvements in screw propellers."—Dated 2nd July, 1859.

1586. JOSEPH SIMON, residing in Paris, Passage des Petites Ecuries, No. 5, for an invention of "A composition named 'Zeiodelite,' a kind of paste which becomes as hard as stone, is unchangeable by the air, and being proof against the action of acids, may replace lead and other substances, for various uses."—Dated 4th July, 1859.

1602. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "An improved mode of manufacture of wheel tires for railway carriages and engines by means of the herein described apparatus."—A communication from abroad by Duplay, Vidal, Lachaise, and Co., No. 10, Rue Mogador, Paris, in the empire of France."—Dated 6th July, 1859.

1608. BENJAMIN SEED, of Keighley, Grease Manufacturer, and THOMAS STEEL, of Bradford, Foreman, both in the county of York, for an invention of "Improvements in apparatus employed in the treatment of soap suds, or other saponaceous or oily matters."—Dated 6th July, 1859.

1620. WILLIAM HENRY DAWES, of Bromford Iron Works, West Bromwich, in the county of Stafford, Iron Master, for an invention of "An improvement or improvements in the manufacture of iron."—Dated 8th July, 1859.

1652. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, Patent Agent, for an invention of "Improvements in railway car seats and arm chairs."—A communication from abroad by Bernard Joachim La Mothe, No. 10, Rue Mogador, Paris, in the empire of France.—Dated 12th July, 1859.

1662. JOHN TAYLOR, of Roupell Park, Streatham Hill, in the county of Surrey, for an invention of "Improvements in stoves and fireplaces, and in the arrangement of flues connected therewith."—Dated 13th July, 1859.

1698. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the county of Middlesex, (Patent Agent), for an invention of "A new system of eccentric socket adapted to axle trees."—A communication from abroad by Jean Baptiste Gaugand, No. 10, Rue Mogador, Paris, in the empire of France.—Dated 19th July, 1859.

1701. HENRI PARENT, of Roubaix, in the empire of France, Manufacturer, for an invention of "Improvements in or applicable to looms for weaving."—Dated 19th July, 1859.

1702. JOHN CHARLEY RIDDEL, of Belfast, in the county of Antrim, Ireland, for an invention of "Improvements in stalls, loose-boxes, and enclosures for horses, cows, pigs, or other animals,"—Dated 19th July, 1859.

1704. THOMAS CURTIS and JONATHAN HAIGH, both of Leeds, in the county of York, Cloth Finishers, for an invention of "Improvements in the finishing of cloths."—Dated 20th July, 1859.

1708. ZEPHIRIN GASPARD ALEXANDRE NATHAN PETRONE ORIOLI, of 29, Boulevart St. Martin, Paris, in the empire of France, Civil Engineer, for an invention of "New applications of hypochloride of alumina to bleaching and dyeing, and to the disinfection and preservation of organic matters."—Dated 20th July, 1859.

1764. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "Certain improvements in that class of fire-arms known as revolvers, and in bullets for the same."—A communication from abroad by John Walch, of New York, in the United States of America.—Dated 29th July, 1859.

2188. PASCHAL I. LEJEUNE-CHAUMONT, of Faubourg Vivegnies, 138, Liége, for an invention of "Improvements in fire arms and ordnance, and in projectiles and cartridges to be used therewith."—Dated 27th September, 1859.

2262. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Civil Engineer, for an invention of "Improvements in blankets used for printing calicoes and other fabrics, and in the mode of washing or cleaning the same."—A communication from abroad by Seth W. Baker, of Providence, Rhode Island, in the United States of America.—Dated 5th October, 1859.

2490. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the county of Middlesex, Mechanical Draughtsman, for an invention of "An improved mode of and apparatus for condensing and cooling vapour and fluids."—A communication from abroad by Aranias Smith, of Niagara Falls, in the United States of America.—Dated 1st November, 1859.

Patents on which the Stamp Duty of £50 has been Paid.

(*To 28th December, 1859, inclusive.*)

27th December.

3087. Horace Vaughn, of Providence, Rhode Island, in the United States of America, but now of the city of Manchester, Gentleman, for an invention of "An improved method of hardening and tempering steel, and of hardening cast and wrought iron."—Dated 29th December, 1856.

12. John Fowler, junior, of Havering, near Romford, in the county of Essex, for an invention of "Improvements in giving motion to ploughs and other agricultural implements."—Dated 1st January, 1857.

72. John James Russell, of Wednesbury, and Joseph Bennett Howell, of Sheffield, for an invention of "Improvements in the manufacture of steel tubes applicable to the flues of steam boilers, and other uses."—Dated 8th January, 1857.

28th December.

3089. Timothy Alden, of New York, in the United States of America, Mechanical Engineer, for an invention of "Setting and distributing printing types."—Dated 29th December, 1856.

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XIX. There shall be, and there is hereby created and established, in and for Lower Canada, one corporation, a body corporate, to be composed as hereinafter provided, and to be and be called "The Board of Arts and Manufactures for Lower Canada."

XXVII. And it shall be the duty of the said Boards of Arts and Manufactures to take measures, with the approbation of the Minister of Agriculture, to collect and establish at Toronto and Montreal respectively, for the instruction of practical mechanics and artizans, museums of mineral and other material substances, and chemical compositions, &c., and..... the Minister of Agriculture may cause duplicates or copies of models, plans, specimens, drawings, and specifications, dsposited in the Patent Office, and upon which Patents of Invention have issued, to be made from time to time, and placed in the model rooms, museums, or libraries of the said Boards of Arts and Manufactures, respectively, &c.

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